

# AQ-200 Modbus map

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## 1. AQ-21x frame Modbus map

The following table lists modbus holding registers for AQ-210 frame units with firmware FVSPE\_v2.1.1.2-4. For AQ-25x frame Modbus map refer to chapter *AQ-25x frame Modbus map*.

### NOTE!



Best way to always get the latest Modbus map is to load the aqs configuration file from the unit and in the AQtivate setting tool go to *Tools* → *Communication* → *Modbus map*.

Table. 1. - 1. AQ-21x frame Modbus map

| Holding Register | Parameter                | Access | Length | Info  |
|------------------|--------------------------|--------|--------|---|
| HR1              | Modbus requests          | R/W=0  | 1      | Diagnostic request counter  |
| HR2              | Modbus quality           | R      | 1      | Diagnostic quality  |
| HR3              | Modbus errors            | R/W=0  | 1      | Diagnostic error counter  |
| HR4              | Modbus Ctrl OK           | R/W=0  | 1      | Diagnostic Control OK counter   |
| HR5              | Modbus Ctrl Errors       | R/W=0  | 1      | Diagnostic Control Error counter  |
| HR6              | Object1 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR7              | Object2 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR8              | Object3 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9              | Object4 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR10             | Object5 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR11             | Previous Event register  | R      | 6      | Event code  |
| HR12             | Previous Event register  | R      | 6      | Event timestamp (ms)  |
| HR13             | Previous Event register  | R      | 6      | Event timestamp (sec Hi-16bits)   |
| HR14             | Previous Event register  | R      | 6      | Event timestamp (sec Lo-16bits)   |
| HR15             | Previous Event register  | R      | 6      | Event sequential index  |
| HR16             | Previous Event register  | R      | 6      | RESERVED  |
| HR17             | Event register           | R      | 6      | Event code  |
| HR18             | Event register           | R      | 6      | Event timestamp (ms)  |
| HR19             | Event register           | R      | 6      | Event timestamp (sec Hi-16bits)   |
| HR20             | Event register           | R      | 6      | Event timestamp (sec Lo-16bits)   |
| HR21             | Event register           | R      | 6      | Event sequential index  |
| HR22             | Event register           | R      | 6      | RESERVED  |

| Holding Register | Parameter                   | Access | Length | Info                           |
|------------------|-----------------------------|--------|--------|--------------------------------|
| HR23             | System time                 | RW     | 3      | System time (ms)               |
| HR24             | System time                 | RW     | 3      | System time (sec Hi-16bits)    |
| HR25             | System time                 | RW     | 3      | System time (sec Lo-16bits)    |
| HR26             | MEAS1:Pri.Pha.curr.IL1      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR27             |                             |        |        | HR26 (Lo-16bits)               |
| HR28             | MEAS1:Pri.Pha.curr.IL2      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR29             |                             |        |        | HR28 (Lo-16bits)               |
| HR30             | MEAS1:Pri.Pha.curr.IL3      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR31             |                             |        |        | HR30 (Lo-16bits)               |
| HR32             | MEAS1:Pha.angle IL1         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR33             |                             |        |        | HR32 (Lo-16bits)               |
| HR34             | MEAS1:Pha.angle IL2         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR35             |                             |        |        | HR34 (Lo-16bits)               |
| HR36             | MEAS1:Pha.angle IL3         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR37             |                             |        |        | HR36 (Lo-16bits)               |
| HR38             | MEAS1:Pri.Res.curr.I01      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR39             |                             |        |        | HR38 (Lo-16bits)               |
| HR40             | MEAS1:Res.curr.angle I01    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR41             |                             |        |        | HR40 (Lo-16bits)               |
| HR42             | MEAS1:Pri.Res.curr.I02      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR43             |                             |        |        | HR42 (Lo-16bits)               |
| HR44             | MEAS1:Res.curr.angle I02    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR45             |                             |        |        | HR44 (Lo-16bits)               |
| HR46             | MEAS1:Pri.calc.I0           | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR47             |                             |        |        | HR46 (Lo-16bits)               |
| HR48             | MEAS1:calc.I0 Pha.angle     | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR49             |                             |        |        | HR48 (Lo-16bits)               |
| HR50             | MEAS1:Pha.curr.IL1 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR51             |                             |        |        | HR50 (Lo-16bits)               |
| HR52             | MEAS1:Pha.curr.IL2 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR53             |                             |        |        | HR52 (Lo-16bits)               |
| HR54             | MEAS1:Pha.curr.IL3 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR55             |                             |        |        | HR54 (Lo-16bits)               |
| HR56             | MEAS1:Pri.Pos.seq.curr.     | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR57             |                             |        |        | HR56 (Lo-16bits)               |
| HR58             | MEAS1:Pri.Neg.seq.curr.     | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR59             |                             |        |        | HR58 (Lo-16bits)               |
| HR60             | MEAS1:Pri.Zero seq.curr.    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter                   | Access | Length | Info                           |
|------------------|-----------------------------|--------|--------|--------------------------------|
| HR61             |                             |        |        | HR60 (Lo-16bits)               |
| HR62             | MEAS1:Pos.seq.curr.angle    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR63             |                             |        |        | HR62 (Lo-16bits)               |
| HR64             | MEAS1:Neg.seq.curr.angle    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR65             |                             |        |        | HR64 (Lo-16bits)               |
| HR66             | MEAS1:Zero seq.curr.angle   | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR67             |                             |        |        | HR66 (Lo-16bits)               |
| HR68             | MEAS1:Res.curr.I01 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR69             |                             |        |        | HR68 (Lo-16bits)               |
| HR70             | MEAS1:Res.curr.I02 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR71             |                             |        |        | HR70 (Lo-16bits)               |
| HR72             | MEAS1:Pha.L1 ampl. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR73             |                             |        |        | HR72 (Lo-16bits)               |
| HR74             | MEAS1:Pha.L1 pow. THD       | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR75             |                             |        |        | HR74 (Lo-16bits)               |
| HR76             | MEAS1:Pha.L2 ampl. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR77             |                             |        |        | HR76 (Lo-16bits)               |
| HR78             | MEAS1:Pha.L2 pow. THD       | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR79             |                             |        |        | HR78 (Lo-16bits)               |
| HR80             | MEAS1:Pha.L3 ampl. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR81             |                             |        |        | HR80 (Lo-16bits)               |
| HR82             | MEAS1:Pha.L3 pow. THD       | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR83             |                             |        |        | HR82 (Lo-16bits)               |
| HR84             | MEAS1:Res.I01 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR85             |                             |        |        | HR84 (Lo-16bits)               |
| HR86             | MEAS1:Res.I01 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR87             |                             |        |        | HR86 (Lo-16bits)               |
| HR88             | MEAS1:Res.I02 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR89             |                             |        |        | HR88 (Lo-16bits)               |
| HR90             | MEAS1:Res.I02 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR91             |                             |        |        | HR90 (Lo-16bits)               |
| HR92             | MEAS1:P-P curr.IL1          | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR93             |                             |        |        | HR92 (Lo-16bits)               |
| HR94             | MEAS1:P-P curr.IL2          | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR95             |                             |        |        | HR94 (Lo-16bits)               |
| HR96             | MEAS1:P-P curr.IL3          | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR97             |                             |        |        | HR96 (Lo-16bits)               |
| HR98             | MEAS1:P-P curr.I01          | R      | 2      | FLOAT [0...500] (Hi-16bits)    |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR99             |                    |        |        | HR98 (Lo-16bits)               |
| HR100            | MEAS1:P-P curr.I02 | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR101            |                    |        |        | HR100 (Lo-16bits)              |
| HR102            | MEAS1:IL1 Fund     | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR103            |                    |        |        | HR102 (Lo-16bits)              |
| HR104            | MEAS1:IL1 2.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR105            |                    |        |        | HR104 (Lo-16bits)              |
| HR106            | MEAS1:IL1 3.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR107            |                    |        |        | HR106 (Lo-16bits)              |
| HR108            | MEAS1:IL1 4.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR109            |                    |        |        | HR108 (Lo-16bits)              |
| HR110            | MEAS1:IL1 5.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR111            |                    |        |        | HR110 (Lo-16bits)              |
| HR112            | MEAS1:IL1 6.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR113            |                    |        |        | HR112 (Lo-16bits)              |
| HR114            | MEAS1:IL1 7.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR115            |                    |        |        | HR114 (Lo-16bits)              |
| HR116            | MEAS1:IL1 8.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR117            |                    |        |        | HR116 (Lo-16bits)              |
| HR118            | MEAS1:IL1 9.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR119            |                    |        |        | HR118 (Lo-16bits)              |
| HR120            | MEAS1:IL1 10.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR121            |                    |        |        | HR120 (Lo-16bits)              |
| HR122            | MEAS1:IL1 11.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR123            |                    |        |        | HR122 (Lo-16bits)              |
| HR124            | MEAS1:IL1 12.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR125            |                    |        |        | HR124 (Lo-16bits)              |
| HR126            | MEAS1:IL1 13.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR127            |                    |        |        | HR126 (Lo-16bits)              |
| HR128            | MEAS1:IL1 14.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR129            |                    |        |        | HR128 (Lo-16bits)              |
| HR130            | MEAS1:IL1 15.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR131            |                    |        |        | HR130 (Lo-16bits)              |
| HR132            | MEAS1:IL1 16.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR133            |                    |        |        | HR132 (Lo-16bits)              |
| HR134            | MEAS1:IL1 17.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR135            |                    |        |        | HR134 (Lo-16bits)              |
| HR136            | MEAS1:IL1 18.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR137            |                   |        |        | HR136 (Lo-16bits)              |
| HR138            | MEAS1:IL1 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR139            |                   |        |        | HR138 (Lo-16bits)              |
| HR140            | MEAS1:IL1 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR141            |                   |        |        | HR140 (Lo-16bits)              |
| HR142            | MEAS1:IL1 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR143            |                   |        |        | HR142 (Lo-16bits)              |
| HR144            | MEAS1:IL1 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR145            |                   |        |        | HR144 (Lo-16bits)              |
| HR146            | MEAS1:IL1 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR147            |                   |        |        | HR146 (Lo-16bits)              |
| HR148            | MEAS1:IL1 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR149            |                   |        |        | HR148 (Lo-16bits)              |
| HR150            | MEAS1:IL1 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR151            |                   |        |        | HR150 (Lo-16bits)              |
| HR152            | MEAS1:IL1 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR153            |                   |        |        | HR152 (Lo-16bits)              |
| HR154            | MEAS1:IL1 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR155            |                   |        |        | HR154 (Lo-16bits)              |
| HR156            | MEAS1:IL1 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR157            |                   |        |        | HR156 (Lo-16bits)              |
| HR158            | MEAS1:IL1 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR159            |                   |        |        | HR158 (Lo-16bits)              |
| HR160            | MEAS1:IL1 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR161            |                   |        |        | HR160 (Lo-16bits)              |
| HR162            | MEAS1:IL1 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR163            |                   |        |        | HR162 (Lo-16bits)              |
| HR164            | MEAS1:IL2 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR165            |                   |        |        | HR164 (Lo-16bits)              |
| HR166            | MEAS1:IL2 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR167            |                   |        |        | HR166 (Lo-16bits)              |
| HR168            | MEAS1:IL2 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR169            |                   |        |        | HR168 (Lo-16bits)              |
| HR170            | MEAS1:IL2 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR171            |                   |        |        | HR170 (Lo-16bits)              |
| HR172            | MEAS1:IL2 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR173            |                   |        |        | HR172 (Lo-16bits)              |
| HR174            | MEAS1:IL2 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR175            |                   |        |        | HR174 (Lo-16bits)              |
| HR176            | MEAS1:IL2 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR177            |                   |        |        | HR176 (Lo-16bits)              |
| HR178            | MEAS1:IL2 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR179            |                   |        |        | HR178 (Lo-16bits)              |
| HR180            | MEAS1:IL2 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR181            |                   |        |        | HR180 (Lo-16bits)              |
| HR182            | MEAS1:IL2 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR183            |                   |        |        | HR182 (Lo-16bits)              |
| HR184            | MEAS1:IL2 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR185            |                   |        |        | HR184 (Lo-16bits)              |
| HR186            | MEAS1:IL2 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR187            |                   |        |        | HR186 (Lo-16bits)              |
| HR188            | MEAS1:IL2 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR189            |                   |        |        | HR188 (Lo-16bits)              |
| HR190            | MEAS1:IL2 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR191            |                   |        |        | HR190 (Lo-16bits)              |
| HR192            | MEAS1:IL2 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR193            |                   |        |        | HR192 (Lo-16bits)              |
| HR194            | MEAS1:IL2 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR195            |                   |        |        | HR194 (Lo-16bits)              |
| HR196            | MEAS1:IL2 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR197            |                   |        |        | HR196 (Lo-16bits)              |
| HR198            | MEAS1:IL2 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR199            |                   |        |        | HR198 (Lo-16bits)              |
| HR200            | MEAS1:IL2 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR201            |                   |        |        | HR200 (Lo-16bits)              |
| HR202            | MEAS1:IL2 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR203            |                   |        |        | HR202 (Lo-16bits)              |
| HR204            | MEAS1:IL2 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR205            |                   |        |        | HR204 (Lo-16bits)              |
| HR206            | MEAS1:IL2 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR207            |                   |        |        | HR206 (Lo-16bits)              |
| HR208            | MEAS1:IL2 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR209            |                   |        |        | HR208 (Lo-16bits)              |
| HR210            | MEAS1:IL2 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR211            |                   |        |        | HR210 (Lo-16bits)              |
| HR212            | MEAS1:IL2 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |



| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR213            |                   |        |        | HR212 (Lo-16bits)              |
| HR214            | MEAS1:IL2 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR215            |                   |        |        | HR214 (Lo-16bits)              |
| HR216            | MEAS1:IL2 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR217            |                   |        |        | HR216 (Lo-16bits)              |
| HR218            | MEAS1:IL2 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR219            |                   |        |        | HR218 (Lo-16bits)              |
| HR220            | MEAS1:IL2 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR221            |                   |        |        | HR220 (Lo-16bits)              |
| HR222            | MEAS1:IL2 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR223            |                   |        |        | HR222 (Lo-16bits)              |
| HR224            | MEAS1:IL2 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR225            |                   |        |        | HR224 (Lo-16bits)              |
| HR226            | MEAS1:IL3 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR227            |                   |        |        | HR226 (Lo-16bits)              |
| HR228            | MEAS1:IL3 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR229            |                   |        |        | HR228 (Lo-16bits)              |
| HR230            | MEAS1:IL3 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR231            |                   |        |        | HR230 (Lo-16bits)              |
| HR232            | MEAS1:IL3 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR233            |                   |        |        | HR232 (Lo-16bits)              |
| HR234            | MEAS1:IL3 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR235            |                   |        |        | HR234 (Lo-16bits)              |
| HR236            | MEAS1:IL3 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR237            |                   |        |        | HR236 (Lo-16bits)              |
| HR238            | MEAS1:IL3 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR239            |                   |        |        | HR238 (Lo-16bits)              |
| HR240            | MEAS1:IL3 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR241            |                   |        |        | HR240 (Lo-16bits)              |
| HR242            | MEAS1:IL3 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR243            |                   |        |        | HR242 (Lo-16bits)              |
| HR244            | MEAS1:IL3 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR245            |                   |        |        | HR244 (Lo-16bits)              |
| HR246            | MEAS1:IL3 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR247            |                   |        |        | HR246 (Lo-16bits)              |
| HR248            | MEAS1:IL3 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR249            |                   |        |        | HR248 (Lo-16bits)              |
| HR250            | MEAS1:IL3 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR251            |                   |        |        | HR250 (Lo-16bits)              |
| HR252            | MEAS1:IL3 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR253            |                   |        |        | HR252 (Lo-16bits)              |
| HR254            | MEAS1:IL3 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR255            |                   |        |        | HR254 (Lo-16bits)              |
| HR256            | MEAS1:IL3 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR257            |                   |        |        | HR256 (Lo-16bits)              |
| HR258            | MEAS1:IL3 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR259            |                   |        |        | HR258 (Lo-16bits)              |
| HR260            | MEAS1:IL3 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR261            |                   |        |        | HR260 (Lo-16bits)              |
| HR262            | MEAS1:IL3 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR263            |                   |        |        | HR262 (Lo-16bits)              |
| HR264            | MEAS1:IL3 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR265            |                   |        |        | HR264 (Lo-16bits)              |
| HR266            | MEAS1:IL3 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR267            |                   |        |        | HR266 (Lo-16bits)              |
| HR268            | MEAS1:IL3 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR269            |                   |        |        | HR268 (Lo-16bits)              |
| HR270            | MEAS1:IL3 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR271            |                   |        |        | HR270 (Lo-16bits)              |
| HR272            | MEAS1:IL3 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR273            |                   |        |        | HR272 (Lo-16bits)              |
| HR274            | MEAS1:IL3 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR275            |                   |        |        | HR274 (Lo-16bits)              |
| HR276            | MEAS1:IL3 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR277            |                   |        |        | HR276 (Lo-16bits)              |
| HR278            | MEAS1:IL3 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR279            |                   |        |        | HR278 (Lo-16bits)              |
| HR280            | MEAS1:IL3 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR281            |                   |        |        | HR280 (Lo-16bits)              |
| HR282            | MEAS1:IL3 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR283            |                   |        |        | HR282 (Lo-16bits)              |
| HR284            | MEAS1:IL3 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR285            |                   |        |        | HR284 (Lo-16bits)              |
| HR286            | MEAS1:IL3 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR287            |                   |        |        | HR286 (Lo-16bits)              |
| HR288            | MEAS1:I01 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR289            |                   |        |        | HR288 (Lo-16bits)              |
| HR290            | MEAS1:I01 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR291            |                   |        |        | HR290 (Lo-16bits)              |
| HR292            | MEAS1:I01 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR293            |                   |        |        | HR292 (Lo-16bits)              |
| HR294            | MEAS1:I01 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR295            |                   |        |        | HR294 (Lo-16bits)              |
| HR296            | MEAS1:I01 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR297            |                   |        |        | HR296 (Lo-16bits)              |
| HR298            | MEAS1:I01 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR299            |                   |        |        | HR298 (Lo-16bits)              |
| HR300            | MEAS1:I01 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR301            |                   |        |        | HR300 (Lo-16bits)              |
| HR302            | MEAS1:I01 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR303            |                   |        |        | HR302 (Lo-16bits)              |
| HR304            | MEAS1:I01 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR305            |                   |        |        | HR304 (Lo-16bits)              |
| HR306            | MEAS1:I01 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR307            |                   |        |        | HR306 (Lo-16bits)              |
| HR308            | MEAS1:I01 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR309            |                   |        |        | HR308 (Lo-16bits)              |
| HR310            | MEAS1:I01 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR311            |                   |        |        | HR310 (Lo-16bits)              |
| HR312            | MEAS1:I01 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR313            |                   |        |        | HR312 (Lo-16bits)              |
| HR314            | MEAS1:I01 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR315            |                   |        |        | HR314 (Lo-16bits)              |
| HR316            | MEAS1:I01 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR317            |                   |        |        | HR316 (Lo-16bits)              |
| HR318            | MEAS1:I01 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR319            |                   |        |        | HR318 (Lo-16bits)              |
| HR320            | MEAS1:I01 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR321            |                   |        |        | HR320 (Lo-16bits)              |
| HR322            | MEAS1:I01 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR323            |                   |        |        | HR322 (Lo-16bits)              |
| HR324            | MEAS1:I01 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR325            |                   |        |        | HR324 (Lo-16bits)              |
| HR326            | MEAS1:I01 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR327            |                   |        |        | HR326 (Lo-16bits)              |
| HR328            | MEAS1:I01 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR329            |                   |        |        | HR328 (Lo-16bits)              |
| HR330            | MEAS1:I01 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR331            |                   |        |        | HR330 (Lo-16bits)              |
| HR332            | MEAS1:I01 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR333            |                   |        |        | HR332 (Lo-16bits)              |
| HR334            | MEAS1:I01 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR335            |                   |        |        | HR334 (Lo-16bits)              |
| HR336            | MEAS1:I01 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR337            |                   |        |        | HR336 (Lo-16bits)              |
| HR338            | MEAS1:I01 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR339            |                   |        |        | HR338 (Lo-16bits)              |
| HR340            | MEAS1:I01 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR341            |                   |        |        | HR340 (Lo-16bits)              |
| HR342            | MEAS1:I01 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR343            |                   |        |        | HR342 (Lo-16bits)              |
| HR344            | MEAS1:I01 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR345            |                   |        |        | HR344 (Lo-16bits)              |
| HR346            | MEAS1:I01 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR347            |                   |        |        | HR346 (Lo-16bits)              |
| HR348            | MEAS1:I01 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR349            |                   |        |        | HR348 (Lo-16bits)              |
| HR350            | MEAS1:I02 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR351            |                   |        |        | HR350 (Lo-16bits)              |
| HR352            | MEAS1:I02 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR353            |                   |        |        | HR352 (Lo-16bits)              |
| HR354            | MEAS1:I02 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR355            |                   |        |        | HR354 (Lo-16bits)              |
| HR356            | MEAS1:I02 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR357            |                   |        |        | HR356 (Lo-16bits)              |
| HR358            | MEAS1:I02 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR359            |                   |        |        | HR358 (Lo-16bits)              |
| HR360            | MEAS1:I02 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR361            |                   |        |        | HR360 (Lo-16bits)              |
| HR362            | MEAS1:I02 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR363            |                   |        |        | HR362 (Lo-16bits)              |
| HR364            | MEAS1:I02 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter         | Access | Length | Info                           |
|------------------|-------------------|--------|--------|--------------------------------|
| HR365            |                   |        |        | HR364 (Lo-16bits)              |
| HR366            | MEAS1:I02 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR367            |                   |        |        | HR366 (Lo-16bits)              |
| HR368            | MEAS1:I02 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR369            |                   |        |        | HR368 (Lo-16bits)              |
| HR370            | MEAS1:I02 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR371            |                   |        |        | HR370 (Lo-16bits)              |
| HR372            | MEAS1:I02 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR373            |                   |        |        | HR372 (Lo-16bits)              |
| HR374            | MEAS1:I02 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR375            |                   |        |        | HR374 (Lo-16bits)              |
| HR376            | MEAS1:I02 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR377            |                   |        |        | HR376 (Lo-16bits)              |
| HR378            | MEAS1:I02 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR379            |                   |        |        | HR378 (Lo-16bits)              |
| HR380            | MEAS1:I02 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR381            |                   |        |        | HR380 (Lo-16bits)              |
| HR382            | MEAS1:I02 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR383            |                   |        |        | HR382 (Lo-16bits)              |
| HR384            | MEAS1:I02 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR385            |                   |        |        | HR384 (Lo-16bits)              |
| HR386            | MEAS1:I02 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR387            |                   |        |        | HR386 (Lo-16bits)              |
| HR388            | MEAS1:I02 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR389            |                   |        |        | HR388 (Lo-16bits)              |
| HR390            | MEAS1:I02 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR391            |                   |        |        | HR390 (Lo-16bits)              |
| HR392            | MEAS1:I02 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR393            |                   |        |        | HR392 (Lo-16bits)              |
| HR394            | MEAS1:I02 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR395            |                   |        |        | HR394 (Lo-16bits)              |
| HR396            | MEAS1:I02 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR397            |                   |        |        | HR396 (Lo-16bits)              |
| HR398            | MEAS1:I02 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR399            |                   |        |        | HR398 (Lo-16bits)              |
| HR400            | MEAS1:I02 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR401            |                   |        |        | HR400 (Lo-16bits)              |
| HR402            | MEAS1:I02 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter                    | Access | Length | Info                           |
|------------------|------------------------------|--------|--------|--------------------------------|
| HR403            |                              |        |        | HR402 (Lo-16bits)              |
| HR404            | MEAS1:I02 28.harm            | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR405            |                              |        |        | HR404 (Lo-16bits)              |
| HR406            | MEAS1:I02 29.harm            | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR407            |                              |        |        | HR406 (Lo-16bits)              |
| HR408            | MEAS1:I02 30.harm            | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR409            |                              |        |        | HR408 (Lo-16bits)              |
| HR410            | MEAS1:I02 31.harm            | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR411            |                              |        |        | HR410 (Lo-16bits)              |
| HR412            | MEAS2:Pri.Pha.curr.I"L1      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR413            |                              |        |        | HR412 (Lo-16bits)              |
| HR414            | MEAS2:Pri.Pha.curr.I"L2      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR415            |                              |        |        | HR414 (Lo-16bits)              |
| HR416            | MEAS2:Pri.Pha.curr.I"L3      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR417            |                              |        |        | HR416 (Lo-16bits)              |
| HR418            | MEAS2:Pha.angle I"L1         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR419            |                              |        |        | HR418 (Lo-16bits)              |
| HR420            | MEAS2:Pha.angle I"L2         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR421            |                              |        |        | HR420 (Lo-16bits)              |
| HR422            | MEAS2:Pha.angle I"L3         | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR423            |                              |        |        | HR422 (Lo-16bits)              |
| HR424            | MEAS2:Pri.Res.curr.I"01      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR425            |                              |        |        | HR424 (Lo-16bits)              |
| HR426            | MEAS2:Res.curr.angle I"01    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR427            |                              |        |        | HR426 (Lo-16bits)              |
| HR428            | MEAS2:Pri.Res.curr.I"02      | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR429            |                              |        |        | HR428 (Lo-16bits)              |
| HR430            | MEAS2:Res.curr.angle I"02    | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR431            |                              |        |        | HR430 (Lo-16bits)              |
| HR432            | MEAS2:Pri.calc.I"0           | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR433            |                              |        |        | HR432 (Lo-16bits)              |
| HR434            | MEAS2:calc.I"0 Pha.angle     | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR435            |                              |        |        | HR434 (Lo-16bits)              |
| HR436            | MEAS2:Pha.curr.I"L1 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR437            |                              |        |        | HR436 (Lo-16bits)              |
| HR438            | MEAS2:Pha.curr.I"L2 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR439            |                              |        |        | HR438 (Lo-16bits)              |
| HR440            | MEAS2:Pha.curr.I"L3 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter                    | Access | Length | Info                           |
|------------------|------------------------------|--------|--------|--------------------------------|
| HR441            |                              |        |        | HR440 (Lo-16bits)              |
| HR442            | MEAS2:I" Pri.Pos.seq.curr.   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR443            |                              |        |        | HR442 (Lo-16bits)              |
| HR444            | MEAS2:I" Pri.Neg.seq.curr.   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR445            |                              |        |        | HR444 (Lo-16bits)              |
| HR446            | MEAS2:I" Pri.Zero seq.curr.  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR447            |                              |        |        | HR446 (Lo-16bits)              |
| HR448            | MEAS2:I" Pos.seq.curr.angle  | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR449            |                              |        |        | HR448 (Lo-16bits)              |
| HR450            | MEAS2:I" Neg.seq.curr.angle  | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR451            |                              |        |        | HR450 (Lo-16bits)              |
| HR452            | MEAS2:I" Zero seq.curr.angle | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR453            |                              |        |        | HR452 (Lo-16bits)              |
| HR454            | MEAS2:Res.curr.I"01 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR455            |                              |        |        | HR454 (Lo-16bits)              |
| HR456            | MEAS2:Res.curr.I"02 TRMS Pri | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR457            |                              |        |        | HR456 (Lo-16bits)              |
| HR458            | MEAS2:Pha.I"L1 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR459            |                              |        |        | HR458 (Lo-16bits)              |
| HR460            | MEAS2:Pha.I"L1 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR461            |                              |        |        | HR460 (Lo-16bits)              |
| HR462            | MEAS2:Pha.I"L2 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR463            |                              |        |        | HR462 (Lo-16bits)              |
| HR464            | MEAS2:Pha.I"L2 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR465            |                              |        |        | HR464 (Lo-16bits)              |
| HR466            | MEAS2:Pha.I"L3 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR467            |                              |        |        | HR466 (Lo-16bits)              |
| HR468            | MEAS2:Pha.I"L3 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR469            |                              |        |        | HR468 (Lo-16bits)              |
| HR470            | MEAS2:Res.I"01 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR471            |                              |        |        | HR470 (Lo-16bits)              |
| HR472            | MEAS2:Res.I"01 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR473            |                              |        |        | HR472 (Lo-16bits)              |
| HR474            | MEAS2:Res.I"02 ampl. THD     | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR475            |                              |        |        | HR474 (Lo-16bits)              |
| HR476            | MEAS2:Res.I"02 pow. THD      | R      | 2      | FLOAT [0...100] (Hi-16bits)    |
| HR477            |                              |        |        | HR476 (Lo-16bits)              |
| HR478            | MEAS2:P-P curr.I"L1          | R      | 2      | FLOAT [0...500] (Hi-16bits)    |

| Holding Register | Parameter           | Access | Length | Info                           |
|------------------|---------------------|--------|--------|--------------------------------|
| HR479            |                     |        |        | HR478 (Lo-16bits)              |
| HR480            | MEAS2:P-P curr.I"L2 | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR481            |                     |        |        | HR480 (Lo-16bits)              |
| HR482            | MEAS2:P-P curr.I"L3 | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR483            |                     |        |        | HR482 (Lo-16bits)              |
| HR484            | MEAS2:P-P curr.I"01 | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR485            |                     |        |        | HR484 (Lo-16bits)              |
| HR486            | MEAS2:P-P curr.I"02 | R      | 2      | FLOAT [0...500] (Hi-16bits)    |
| HR487            |                     |        |        | HR486 (Lo-16bits)              |
| HR488            | MEAS2:I"L1 Fund     | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR489            |                     |        |        | HR488 (Lo-16bits)              |
| HR490            | MEAS2:I"L1 2.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR491            |                     |        |        | HR490 (Lo-16bits)              |
| HR492            | MEAS2:I"L1 3.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR493            |                     |        |        | HR492 (Lo-16bits)              |
| HR494            | MEAS2:I"L1 4.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR495            |                     |        |        | HR494 (Lo-16bits)              |
| HR496            | MEAS2:I"L1 5.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR497            |                     |        |        | HR496 (Lo-16bits)              |
| HR498            | MEAS2:I"L1 6.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR499            |                     |        |        | HR498 (Lo-16bits)              |
| HR500            | MEAS2:I"L1 7.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR501            |                     |        |        | HR500 (Lo-16bits)              |
| HR502            | MEAS2:I"L1 8.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR503            |                     |        |        | HR502 (Lo-16bits)              |
| HR504            | MEAS2:I"L1 9.harm   | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR505            |                     |        |        | HR504 (Lo-16bits)              |
| HR506            | MEAS2:I"L1 10.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR507            |                     |        |        | HR506 (Lo-16bits)              |
| HR508            | MEAS2:I"L1 11.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR509            |                     |        |        | HR508 (Lo-16bits)              |
| HR510            | MEAS2:I"L1 12.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR511            |                     |        |        | HR510 (Lo-16bits)              |
| HR512            | MEAS2:I"L1 13.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR513            |                     |        |        | HR512 (Lo-16bits)              |
| HR514            | MEAS2:I"L1 14.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR515            |                     |        |        | HR514 (Lo-16bits)              |
| HR516            | MEAS2:I"L1 15.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |



| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR517            |                    |        |        | HR516 (Lo-16bits)              |
| HR518            | MEAS2:I"L1 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR519            |                    |        |        | HR518 (Lo-16bits)              |
| HR520            | MEAS2:I"L1 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR521            |                    |        |        | HR520 (Lo-16bits)              |
| HR522            | MEAS2:I"L1 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR523            |                    |        |        | HR522 (Lo-16bits)              |
| HR524            | MEAS2:I"L1 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR525            |                    |        |        | HR524 (Lo-16bits)              |
| HR526            | MEAS2:I"L1 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR527            |                    |        |        | HR526 (Lo-16bits)              |
| HR528            | MEAS2:I"L1 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR529            |                    |        |        | HR528 (Lo-16bits)              |
| HR530            | MEAS2:I"L1 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR531            |                    |        |        | HR530 (Lo-16bits)              |
| HR532            | MEAS2:I"L1 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR533            |                    |        |        | HR532 (Lo-16bits)              |
| HR534            | MEAS2:I"L1 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR535            |                    |        |        | HR534 (Lo-16bits)              |
| HR536            | MEAS2:I"L1 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR537            |                    |        |        | HR536 (Lo-16bits)              |
| HR538            | MEAS2:I"L1 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR539            |                    |        |        | HR538 (Lo-16bits)              |
| HR540            | MEAS2:I"L1 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR541            |                    |        |        | HR540 (Lo-16bits)              |
| HR542            | MEAS2:I"L1 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR543            |                    |        |        | HR542 (Lo-16bits)              |
| HR544            | MEAS2:I"L1 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR545            |                    |        |        | HR544 (Lo-16bits)              |
| HR546            | MEAS2:I"L1 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR547            |                    |        |        | HR546 (Lo-16bits)              |
| HR548            | MEAS2:I"L1 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR549            |                    |        |        | HR548 (Lo-16bits)              |
| HR550            | MEAS2:I"L2 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR551            |                    |        |        | HR550 (Lo-16bits)              |
| HR552            | MEAS2:I"L2 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR553            |                    |        |        | HR552 (Lo-16bits)              |
| HR554            | MEAS2:I"L2 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR555            |                    |        |        | HR554 (Lo-16bits)              |
| HR556            | MEAS2:I"L2 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR557            |                    |        |        | HR556 (Lo-16bits)              |
| HR558            | MEAS2:I"L2 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR559            |                    |        |        | HR558 (Lo-16bits)              |
| HR560            | MEAS2:I"L2 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR561            |                    |        |        | HR560 (Lo-16bits)              |
| HR562            | MEAS2:I"L2 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR563            |                    |        |        | HR562 (Lo-16bits)              |
| HR564            | MEAS2:I"L2 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR565            |                    |        |        | HR564 (Lo-16bits)              |
| HR566            | MEAS2:I"L2 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR567            |                    |        |        | HR566 (Lo-16bits)              |
| HR568            | MEAS2:I"L2 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR569            |                    |        |        | HR568 (Lo-16bits)              |
| HR570            | MEAS2:I"L2 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR571            |                    |        |        | HR570 (Lo-16bits)              |
| HR572            | MEAS2:I"L2 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR573            |                    |        |        | HR572 (Lo-16bits)              |
| HR574            | MEAS2:I"L2 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR575            |                    |        |        | HR574 (Lo-16bits)              |
| HR576            | MEAS2:I"L2 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR577            |                    |        |        | HR576 (Lo-16bits)              |
| HR578            | MEAS2:I"L2 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR579            |                    |        |        | HR578 (Lo-16bits)              |
| HR580            | MEAS2:I"L2 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR581            |                    |        |        | HR580 (Lo-16bits)              |
| HR582            | MEAS2:I"L2 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR583            |                    |        |        | HR582 (Lo-16bits)              |
| HR584            | MEAS2:I"L2 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR585            |                    |        |        | HR584 (Lo-16bits)              |
| HR586            | MEAS2:I"L2 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR587            |                    |        |        | HR586 (Lo-16bits)              |
| HR588            | MEAS2:I"L2 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR589            |                    |        |        | HR588 (Lo-16bits)              |
| HR590            | MEAS2:I"L2 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR591            |                    |        |        | HR590 (Lo-16bits)              |
| HR592            | MEAS2:I"L2 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR593            |                    |        |        | HR592 (Lo-16bits)              |
| HR594            | MEAS2:I"L2 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR595            |                    |        |        | HR594 (Lo-16bits)              |
| HR596            | MEAS2:I"L2 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR597            |                    |        |        | HR596 (Lo-16bits)              |
| HR598            | MEAS2:I"L2 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR599            |                    |        |        | HR598 (Lo-16bits)              |
| HR600            | MEAS2:I"L2 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR601            |                    |        |        | HR600 (Lo-16bits)              |
| HR602            | MEAS2:I"L2 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR603            |                    |        |        | HR602 (Lo-16bits)              |
| HR604            | MEAS2:I"L2 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR605            |                    |        |        | HR604 (Lo-16bits)              |
| HR606            | MEAS2:I"L2 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR607            |                    |        |        | HR606 (Lo-16bits)              |
| HR608            | MEAS2:I"L2 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR609            |                    |        |        | HR608 (Lo-16bits)              |
| HR610            | MEAS2:I"L2 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR611            |                    |        |        | HR610 (Lo-16bits)              |
| HR612            | MEAS2:I"L3 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR613            |                    |        |        | HR612 (Lo-16bits)              |
| HR614            | MEAS2:I"L3 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR615            |                    |        |        | HR614 (Lo-16bits)              |
| HR616            | MEAS2:I"L3 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR617            |                    |        |        | HR616 (Lo-16bits)              |
| HR618            | MEAS2:I"L3 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR619            |                    |        |        | HR618 (Lo-16bits)              |
| HR620            | MEAS2:I"L3 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR621            |                    |        |        | HR620 (Lo-16bits)              |
| HR622            | MEAS2:I"L3 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR623            |                    |        |        | HR622 (Lo-16bits)              |
| HR624            | MEAS2:I"L3 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR625            |                    |        |        | HR624 (Lo-16bits)              |
| HR626            | MEAS2:I"L3 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR627            |                    |        |        | HR626 (Lo-16bits)              |
| HR628            | MEAS2:I"L3 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR629            |                    |        |        | HR628 (Lo-16bits)              |
| HR630            | MEAS2:I"L3 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR631            |                    |        |        | HR630 (Lo-16bits)              |
| HR632            | MEAS2:I"L3 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR633            |                    |        |        | HR632 (Lo-16bits)              |
| HR634            | MEAS2:I"L3 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR635            |                    |        |        | HR634 (Lo-16bits)              |
| HR636            | MEAS2:I"L3 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR637            |                    |        |        | HR636 (Lo-16bits)              |
| HR638            | MEAS2:I"L3 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR639            |                    |        |        | HR638 (Lo-16bits)              |
| HR640            | MEAS2:I"L3 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR641            |                    |        |        | HR640 (Lo-16bits)              |
| HR642            | MEAS2:I"L3 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR643            |                    |        |        | HR642 (Lo-16bits)              |
| HR644            | MEAS2:I"L3 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR645            |                    |        |        | HR644 (Lo-16bits)              |
| HR646            | MEAS2:I"L3 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR647            |                    |        |        | HR646 (Lo-16bits)              |
| HR648            | MEAS2:I"L3 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR649            |                    |        |        | HR648 (Lo-16bits)              |
| HR650            | MEAS2:I"L3 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR651            |                    |        |        | HR650 (Lo-16bits)              |
| HR652            | MEAS2:I"L3 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR653            |                    |        |        | HR652 (Lo-16bits)              |
| HR654            | MEAS2:I"L3 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR655            |                    |        |        | HR654 (Lo-16bits)              |
| HR656            | MEAS2:I"L3 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR657            |                    |        |        | HR656 (Lo-16bits)              |
| HR658            | MEAS2:I"L3 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR659            |                    |        |        | HR658 (Lo-16bits)              |
| HR660            | MEAS2:I"L3 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR661            |                    |        |        | HR660 (Lo-16bits)              |
| HR662            | MEAS2:I"L3 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR663            |                    |        |        | HR662 (Lo-16bits)              |
| HR664            | MEAS2:I"L3 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR665            |                    |        |        | HR664 (Lo-16bits)              |
| HR666            | MEAS2:I"L3 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR667            |                    |        |        | HR666 (Lo-16bits)              |
| HR668            | MEAS2:I"L3 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR669            |                    |        |        | HR668 (Lo-16bits)              |
| HR670            | MEAS2:I"L3 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR671            |                    |        |        | HR670 (Lo-16bits)              |
| HR672            | MEAS2:I"L3 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR673            |                    |        |        | HR672 (Lo-16bits)              |
| HR674            | MEAS2:I"01 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR675            |                    |        |        | HR674 (Lo-16bits)              |
| HR676            | MEAS2:I"01 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR677            |                    |        |        | HR676 (Lo-16bits)              |
| HR678            | MEAS2:I"01 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR679            |                    |        |        | HR678 (Lo-16bits)              |
| HR680            | MEAS2:I"01 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR681            |                    |        |        | HR680 (Lo-16bits)              |
| HR682            | MEAS2:I"01 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR683            |                    |        |        | HR682 (Lo-16bits)              |
| HR684            | MEAS2:I"01 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR685            |                    |        |        | HR684 (Lo-16bits)              |
| HR686            | MEAS2:I"01 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR687            |                    |        |        | HR686 (Lo-16bits)              |
| HR688            | MEAS2:I"01 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR689            |                    |        |        | HR688 (Lo-16bits)              |
| HR690            | MEAS2:I"01 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR691            |                    |        |        | HR690 (Lo-16bits)              |
| HR692            | MEAS2:I"01 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR693            |                    |        |        | HR692 (Lo-16bits)              |
| HR694            | MEAS2:I"01 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR695            |                    |        |        | HR694 (Lo-16bits)              |
| HR696            | MEAS2:I"01 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR697            |                    |        |        | HR696 (Lo-16bits)              |
| HR698            | MEAS2:I"01 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR699            |                    |        |        | HR698 (Lo-16bits)              |
| HR700            | MEAS2:I"01 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR701            |                    |        |        | HR700 (Lo-16bits)              |
| HR702            | MEAS2:I"01 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR703            |                    |        |        | HR702 (Lo-16bits)              |
| HR704            | MEAS2:I"01 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR705            |                    |        |        | HR704 (Lo-16bits)              |
| HR706            | MEAS2:I"01 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR707            |                    |        |        | HR706 (Lo-16bits)              |
| HR708            | MEAS2:I"01 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR709            |                    |        |        | HR708 (Lo-16bits)              |
| HR710            | MEAS2:I"01 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR711            |                    |        |        | HR710 (Lo-16bits)              |
| HR712            | MEAS2:I"01 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR713            |                    |        |        | HR712 (Lo-16bits)              |
| HR714            | MEAS2:I"01 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR715            |                    |        |        | HR714 (Lo-16bits)              |
| HR716            | MEAS2:I"01 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR717            |                    |        |        | HR716 (Lo-16bits)              |
| HR718            | MEAS2:I"01 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR719            |                    |        |        | HR718 (Lo-16bits)              |
| HR720            | MEAS2:I"01 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR721            |                    |        |        | HR720 (Lo-16bits)              |
| HR722            | MEAS2:I"01 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR723            |                    |        |        | HR722 (Lo-16bits)              |
| HR724            | MEAS2:I"01 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR725            |                    |        |        | HR724 (Lo-16bits)              |
| HR726            | MEAS2:I"01 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR727            |                    |        |        | HR726 (Lo-16bits)              |
| HR728            | MEAS2:I"01 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR729            |                    |        |        | HR728 (Lo-16bits)              |
| HR730            | MEAS2:I"01 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR731            |                    |        |        | HR730 (Lo-16bits)              |
| HR732            | MEAS2:I"01 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR733            |                    |        |        | HR732 (Lo-16bits)              |
| HR734            | MEAS2:I"01 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR735            |                    |        |        | HR734 (Lo-16bits)              |
| HR736            | MEAS2:I"02 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR737            |                    |        |        | HR736 (Lo-16bits)              |
| HR738            | MEAS2:I"02 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR739            |                    |        |        | HR738 (Lo-16bits)              |
| HR740            | MEAS2:I"02 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR741            |                    |        |        | HR740 (Lo-16bits)              |
| HR742            | MEAS2:I"02 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR743            |                    |        |        | HR742 (Lo-16bits)              |
| HR744            | MEAS2:I"02 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter          | Access | Length | Info                           |
|------------------|--------------------|--------|--------|--------------------------------|
| HR745            |                    |        |        | HR744 (Lo-16bits)              |
| HR746            | MEAS2:I°02 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR747            |                    |        |        | HR746 (Lo-16bits)              |
| HR748            | MEAS2:I°02 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR749            |                    |        |        | HR748 (Lo-16bits)              |
| HR750            | MEAS2:I°02 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR751            |                    |        |        | HR750 (Lo-16bits)              |
| HR752            | MEAS2:I°02 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR753            |                    |        |        | HR752 (Lo-16bits)              |
| HR754            | MEAS2:I°02 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR755            |                    |        |        | HR754 (Lo-16bits)              |
| HR756            | MEAS2:I°02 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR757            |                    |        |        | HR756 (Lo-16bits)              |
| HR758            | MEAS2:I°02 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR759            |                    |        |        | HR758 (Lo-16bits)              |
| HR760            | MEAS2:I°02 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR761            |                    |        |        | HR760 (Lo-16bits)              |
| HR762            | MEAS2:I°02 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR763            |                    |        |        | HR762 (Lo-16bits)              |
| HR764            | MEAS2:I°02 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR765            |                    |        |        | HR764 (Lo-16bits)              |
| HR766            | MEAS2:I°02 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR767            |                    |        |        | HR766 (Lo-16bits)              |
| HR768            | MEAS2:I°02 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR769            |                    |        |        | HR768 (Lo-16bits)              |
| HR770            | MEAS2:I°02 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR771            |                    |        |        | HR770 (Lo-16bits)              |
| HR772            | MEAS2:I°02 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR773            |                    |        |        | HR772 (Lo-16bits)              |
| HR774            | MEAS2:I°02 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR775            |                    |        |        | HR774 (Lo-16bits)              |
| HR776            | MEAS2:I°02 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR777            |                    |        |        | HR776 (Lo-16bits)              |
| HR778            | MEAS2:I°02 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR779            |                    |        |        | HR778 (Lo-16bits)              |
| HR780            | MEAS2:I°02 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR781            |                    |        |        | HR780 (Lo-16bits)              |
| HR782            | MEAS2:I°02 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |

| Holding Register | Parameter             | Access | Length | Info                            |
|------------------|-----------------------|--------|--------|---------------------------------|
| HR783            |                       |        |        | HR782 (Lo-16bits)               |
| HR784            | MEAS2:I°02 25.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR785            |                       |        |        | HR784 (Lo-16bits)               |
| HR786            | MEAS2:I°02 26.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR787            |                       |        |        | HR786 (Lo-16bits)               |
| HR788            | MEAS2:I°02 27.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR789            |                       |        |        | HR788 (Lo-16bits)               |
| HR790            | MEAS2:I°02 28.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR791            |                       |        |        | HR790 (Lo-16bits)               |
| HR792            | MEAS2:I°02 29.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR793            |                       |        |        | HR792 (Lo-16bits)               |
| HR794            | MEAS2:I°02 30.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR795            |                       |        |        | HR794 (Lo-16bits)               |
| HR796            | MEAS2:I°02 31.harm    | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR797            |                       |        |        | HR796 (Lo-16bits)               |
| HR798            | MEAS3:U1Volt pri      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR799            |                       |        |        | HR798 (Lo-16bits)               |
| HR800            | MEAS3:U1Volt sec      | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR801            |                       |        |        | HR800 (Lo-16bits)               |
| HR802            | MEAS3:U2Volt pri      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR803            |                       |        |        | HR802 (Lo-16bits)               |
| HR804            | MEAS3:U2Volt sec      | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR805            |                       |        |        | HR804 (Lo-16bits)               |
| HR806            | MEAS3:U3Volt pri      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR807            |                       |        |        | HR806 (Lo-16bits)               |
| HR808            | MEAS3:U3Volt sec      | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR809            |                       |        |        | HR808 (Lo-16bits)               |
| HR810            | MEAS3:U4Volt pri      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR811            |                       |        |        | HR810 (Lo-16bits)               |
| HR812            | MEAS3:U4Volt sec      | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR813            |                       |        |        | HR812 (Lo-16bits)               |
| HR814            | MEAS3:U1Volt TRMS pri | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR815            |                       |        |        | HR814 (Lo-16bits)               |
| HR816            | MEAS3:U1Volt TRMS sec | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR817            |                       |        |        | HR816 (Lo-16bits)               |
| HR818            | MEAS3:U2Volt TRMS pri | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR819            |                       |        |        | HR818 (Lo-16bits)               |
| HR820            | MEAS3:U2Volt TRMS sec | R      | 2      | FLOAT [0...500] (Hi-16bits)     |



| Holding Register | Parameter                 | Access | Length | Info                            |
|------------------|---------------------------|--------|--------|---------------------------------|
| HR821            |                           |        |        | HR820 (Lo-16bits)               |
| HR822            | MEAS3:U3Volt TRMS pri     | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR823            |                           |        |        | HR822 (Lo-16bits)               |
| HR824            | MEAS3:U3Volt TRMS sec     | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR825            |                           |        |        | HR824 (Lo-16bits)               |
| HR826            | MEAS3:U4Volt TRMS pri     | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR827            |                           |        |        | HR826 (Lo-16bits)               |
| HR828            | MEAS3:U4Volt TRMS sec     | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR829            |                           |        |        | HR828 (Lo-16bits)               |
| HR830            | MEAS3:Pos.seq.Volt.pri    | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR831            |                           |        |        | HR830 (Lo-16bits)               |
| HR832            | MEAS3:Pos.seq.Volt.sec    | R      | 2      | FLOAT [0...480] (Hi-16bits)     |
| HR833            |                           |        |        | HR832 (Lo-16bits)               |
| HR834            | MEAS3:Neg.seq.Volt.pri    | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR835            |                           |        |        | HR834 (Lo-16bits)               |
| HR836            | MEAS3:Neg.seq.Volt.sec    | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR837            |                           |        |        | HR836 (Lo-16bits)               |
| HR838            | MEAS3:Zero.seq.Volt.pri   | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR839            |                           |        |        | HR838 (Lo-16bits)               |
| HR840            | MEAS3:Zero.seq.Volt.sec   | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR841            |                           |        |        | HR840 (Lo-16bits)               |
| HR842            | MEAS3:U0 Calc. pri        | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR843            |                           |        |        | HR842 (Lo-16bits)               |
| HR844            | MEAS3:U0 Calc.Volt sec    | R      | 2      | FLOAT [0...500] (Hi-16bits)     |
| HR845            |                           |        |        | HR844 (Lo-16bits)               |
| HR846            | MEAS3:U1 Angle            | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR847            |                           |        |        | HR846 (Lo-16bits)               |
| HR848            | MEAS3:U2 Angle            | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR849            |                           |        |        | HR848 (Lo-16bits)               |
| HR850            | MEAS3:U3 Angle            | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR851            |                           |        |        | HR850 (Lo-16bits)               |
| HR852            | MEAS3:U4 Angle            | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR853            |                           |        |        | HR852 (Lo-16bits)               |
| HR854            | MEAS3:Pos.Seq.volt.Angle  | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR855            |                           |        |        | HR854 (Lo-16bits)               |
| HR856            | MEAS3:Neg.Seq.volt.Angle  | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR857            |                           |        |        | HR856 (Lo-16bits)               |
| HR858            | MEAS3:Zero.Seq.volt.Angle | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |

| Holding Register | Parameter                      | Access | Length | Info                            |
|------------------|--------------------------------|--------|--------|---------------------------------|
| HR859            |                                |        |        | HR858 (Lo-16bits)               |
| HR860            | MEAS3:System volt UL12 mag     | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR861            |                                |        |        | HR860 (Lo-16bits)               |
| HR862            | MEAS3:System volt UL12 mag(kV) | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR863            |                                |        |        | HR862 (Lo-16bits)               |
| HR864            | MEAS3:System volt UL12 ang     | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR865            |                                |        |        | HR864 (Lo-16bits)               |
| HR866            | MEAS3:System volt UL23 mag     | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR867            |                                |        |        | HR866 (Lo-16bits)               |
| HR868            | MEAS3:System volt UL23 mag(kV) | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR869            |                                |        |        | HR868 (Lo-16bits)               |
| HR870            | MEAS3:System volt UL23 ang     | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR871            |                                |        |        | HR870 (Lo-16bits)               |
| HR872            | MEAS3:System volt UL31 mag     | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR873            |                                |        |        | HR872 (Lo-16bits)               |
| HR874            | MEAS3:System volt UL31 mag(kV) | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR875            |                                |        |        | HR874 (Lo-16bits)               |
| HR876            | MEAS3:System volt UL31 ang     | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR877            |                                |        |        | HR876 (Lo-16bits)               |
| HR878            | MEAS3:System volt UL1 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR879            |                                |        |        | HR878 (Lo-16bits)               |
| HR880            | MEAS3:System volt UL1 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR881            |                                |        |        | HR880 (Lo-16bits)               |
| HR882            | MEAS3:System volt UL1 ang      | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR883            |                                |        |        | HR882 (Lo-16bits)               |
| HR884            | MEAS3:System volt UL2 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR885            |                                |        |        | HR884 (Lo-16bits)               |
| HR886            | MEAS3:System volt UL2 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR887            |                                |        |        | HR886 (Lo-16bits)               |
| HR888            | MEAS3:System volt UL2 ang      | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR889            |                                |        |        | HR888 (Lo-16bits)               |
| HR890            | MEAS3:System volt UL3 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR891            |                                |        |        | HR890 (Lo-16bits)               |
| HR892            | MEAS3:System volt UL3 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR893            |                                |        |        | HR892 (Lo-16bits)               |

| Holding Register | Parameter                     | Access | Length | Info                            |
|------------------|-------------------------------|--------|--------|---------------------------------|
| HR894            | MEAS3:System volt UL3 ang     | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR895            |                               |        |        | HR894 (Lo-16bits)               |
| HR896            | MEAS3:System volt U0 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR897            |                               |        |        | HR896 (Lo-16bits)               |
| HR898            | MEAS3:System volt U0 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR899            |                               |        |        | HR898 (Lo-16bits)               |
| HR900            | MEAS3:System volt U0 mag(%)   | R      | 2      | FLOAT [0...120] (Hi-16bits)     |
| HR901            |                               |        |        | HR900 (Lo-16bits)               |
| HR902            | MEAS3:System volt U0 ang      | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR903            |                               |        |        | HR902 (Lo-16bits)               |
| HR904            | MEAS3:System volt U3 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR905            |                               |        |        | HR904 (Lo-16bits)               |
| HR906            | MEAS3:System volt U3 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR907            |                               |        |        | HR906 (Lo-16bits)               |
| HR908            | MEAS3:System volt U3 ang      | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR909            |                               |        |        | HR908 (Lo-16bits)               |
| HR910            | MEAS3:System volt U4 mag      | R      | 2      | FLOAT [0...1000000] (Hi-16bits) |
| HR911            |                               |        |        | HR910 (Lo-16bits)               |
| HR912            | MEAS3:System volt U4 mag(kV)  | R      | 2      | FLOAT [0...1000] (Hi-16bits)    |
| HR913            |                               |        |        | HR912 (Lo-16bits)               |
| HR914            | MEAS3:System volt U4 ang      | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR915            |                               |        |        | HR914 (Lo-16bits)               |
| HR916            | MEAS3:System volt UL1 ang Ref | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR917            |                               |        |        | HR916 (Lo-16bits)               |
| HR918            | MEAS3:System volt UL2 ang Ref | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR919            |                               |        |        | HR918 (Lo-16bits)               |
| HR920            | MEAS3:System volt UL3 ang Ref | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR921            |                               |        |        | HR920 (Lo-16bits)               |
| HR922            | MEAS3:U1 Fund                 | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR923            |                               |        |        | HR922 (Lo-16bits)               |
| HR924            | MEAS3:U1 2.harm               | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR925            |                               |        |        | HR924 (Lo-16bits)               |
| HR926            | MEAS3:U1 3.harm               | R      | 2      | FLOAT [0...100000] (Hi-16bits)  |
| HR927            |                               |        |        | HR926 (Lo-16bits)               |

| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR928            | MEAS3:U1 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR929            |                  |        |        | HR928 (Lo-16bits)              |
| HR930            | MEAS3:U1 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR931            |                  |        |        | HR930 (Lo-16bits)              |
| HR932            | MEAS3:U1 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR933            |                  |        |        | HR932 (Lo-16bits)              |
| HR934            | MEAS3:U1 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR935            |                  |        |        | HR934 (Lo-16bits)              |
| HR936            | MEAS3:U1 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR937            |                  |        |        | HR936 (Lo-16bits)              |
| HR938            | MEAS3:U1 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR939            |                  |        |        | HR938 (Lo-16bits)              |
| HR940            | MEAS3:U1 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR941            |                  |        |        | HR940 (Lo-16bits)              |
| HR942            | MEAS3:U1 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR943            |                  |        |        | HR942 (Lo-16bits)              |
| HR944            | MEAS3:U1 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR945            |                  |        |        | HR944 (Lo-16bits)              |
| HR946            | MEAS3:U1 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR947            |                  |        |        | HR946 (Lo-16bits)              |
| HR948            | MEAS3:U1 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR949            |                  |        |        | HR948 (Lo-16bits)              |
| HR950            | MEAS3:U1 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR951            |                  |        |        | HR950 (Lo-16bits)              |
| HR952            | MEAS3:U1 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR953            |                  |        |        | HR952 (Lo-16bits)              |
| HR954            | MEAS3:U1 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR955            |                  |        |        | HR954 (Lo-16bits)              |
| HR956            | MEAS3:U1 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR957            |                  |        |        | HR956 (Lo-16bits)              |
| HR958            | MEAS3:U1 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR959            |                  |        |        | HR958 (Lo-16bits)              |
| HR960            | MEAS3:U1 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR961            |                  |        |        | HR960 (Lo-16bits)              |
| HR962            | MEAS3:U1 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR963            |                  |        |        | HR962 (Lo-16bits)              |
| HR964            | MEAS3:U1 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR965            |                  |        |        | HR964 (Lo-16bits)              |

| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR966            | MEAS3:U1 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR967            |                  |        |        | HR966 (Lo-16bits)              |
| HR968            | MEAS3:U1 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR969            |                  |        |        | HR968 (Lo-16bits)              |
| HR970            | MEAS3:U1 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR971            |                  |        |        | HR970 (Lo-16bits)              |
| HR972            | MEAS3:U1 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR973            |                  |        |        | HR972 (Lo-16bits)              |
| HR974            | MEAS3:U1 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR975            |                  |        |        | HR974 (Lo-16bits)              |
| HR976            | MEAS3:U1 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR977            |                  |        |        | HR976 (Lo-16bits)              |
| HR978            | MEAS3:U1 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR979            |                  |        |        | HR978 (Lo-16bits)              |
| HR980            | MEAS3:U1 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR981            |                  |        |        | HR980 (Lo-16bits)              |
| HR982            | MEAS3:U1 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR983            |                  |        |        | HR982 (Lo-16bits)              |
| HR984            | MEAS3:U2 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR985            |                  |        |        | HR984 (Lo-16bits)              |
| HR986            | MEAS3:U2 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR987            |                  |        |        | HR986 (Lo-16bits)              |
| HR988            | MEAS3:U2 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR989            |                  |        |        | HR988 (Lo-16bits)              |
| HR990            | MEAS3:U2 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR991            |                  |        |        | HR990 (Lo-16bits)              |
| HR992            | MEAS3:U2 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR993            |                  |        |        | HR992 (Lo-16bits)              |
| HR994            | MEAS3:U2 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR995            |                  |        |        | HR994 (Lo-16bits)              |
| HR996            | MEAS3:U2 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR997            |                  |        |        | HR996 (Lo-16bits)              |
| HR998            | MEAS3:U2 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR999            |                  |        |        | HR998 (Lo-16bits)              |
| HR1000           | MEAS3:U2 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1001           |                  |        |        | HR1000 (Lo-16bits)             |
| HR1002           | MEAS3:U2 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1003           |                  |        |        | HR1002 (Lo-16bits)             |

| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR1004           | MEAS3:U2 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1005           |                  |        |        | HR1004 (Lo-16bits)             |
| HR1006           | MEAS3:U2 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1007           |                  |        |        | HR1006 (Lo-16bits)             |
| HR1008           | MEAS3:U2 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1009           |                  |        |        | HR1008 (Lo-16bits)             |
| HR1010           | MEAS3:U2 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1011           |                  |        |        | HR1010 (Lo-16bits)             |
| HR1012           | MEAS3:U2 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1013           |                  |        |        | HR1012 (Lo-16bits)             |
| HR1014           | MEAS3:U2 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1015           |                  |        |        | HR1014 (Lo-16bits)             |
| HR1016           | MEAS3:U2 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1017           |                  |        |        | HR1016 (Lo-16bits)             |
| HR1018           | MEAS3:U2 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1019           |                  |        |        | HR1018 (Lo-16bits)             |
| HR1020           | MEAS3:U2 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1021           |                  |        |        | HR1020 (Lo-16bits)             |
| HR1022           | MEAS3:U2 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1023           |                  |        |        | HR1022 (Lo-16bits)             |
| HR1024           | MEAS3:U2 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1025           |                  |        |        | HR1024 (Lo-16bits)             |
| HR1026           | MEAS3:U2 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1027           |                  |        |        | HR1026 (Lo-16bits)             |
| HR1028           | MEAS3:U2 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1029           |                  |        |        | HR1028 (Lo-16bits)             |
| HR1030           | MEAS3:U2 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1031           |                  |        |        | HR1030 (Lo-16bits)             |
| HR1032           | MEAS3:U2 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1033           |                  |        |        | HR1032 (Lo-16bits)             |
| HR1034           | MEAS3:U2 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1035           |                  |        |        | HR1034 (Lo-16bits)             |
| HR1036           | MEAS3:U2 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1037           |                  |        |        | HR1036 (Lo-16bits)             |
| HR1038           | MEAS3:U2 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1039           |                  |        |        | HR1038 (Lo-16bits)             |
| HR1040           | MEAS3:U2 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1041           |                  |        |        | HR1040 (Lo-16bits)             |

| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR1042           | MEAS3:U2 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1043           |                  |        |        | HR1042 (Lo-16bits)             |
| HR1044           | MEAS3:U2 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1045           |                  |        |        | HR1044 (Lo-16bits)             |
| HR1046           | MEAS3:U3 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1047           |                  |        |        | HR1046 (Lo-16bits)             |
| HR1048           | MEAS3:U3 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1049           |                  |        |        | HR1048 (Lo-16bits)             |
| HR1050           | MEAS3:U3 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1051           |                  |        |        | HR1050 (Lo-16bits)             |
| HR1052           | MEAS3:U3 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1053           |                  |        |        | HR1052 (Lo-16bits)             |
| HR1054           | MEAS3:U3 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1055           |                  |        |        | HR1054 (Lo-16bits)             |
| HR1056           | MEAS3:U3 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1057           |                  |        |        | HR1056 (Lo-16bits)             |
| HR1058           | MEAS3:U3 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1059           |                  |        |        | HR1058 (Lo-16bits)             |
| HR1060           | MEAS3:U3 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1061           |                  |        |        | HR1060 (Lo-16bits)             |
| HR1062           | MEAS3:U3 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1063           |                  |        |        | HR1062 (Lo-16bits)             |
| HR1064           | MEAS3:U3 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1065           |                  |        |        | HR1064 (Lo-16bits)             |
| HR1066           | MEAS3:U3 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1067           |                  |        |        | HR1066 (Lo-16bits)             |
| HR1068           | MEAS3:U3 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1069           |                  |        |        | HR1068 (Lo-16bits)             |
| HR1070           | MEAS3:U3 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1071           |                  |        |        | HR1070 (Lo-16bits)             |
| HR1072           | MEAS3:U3 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1073           |                  |        |        | HR1072 (Lo-16bits)             |
| HR1074           | MEAS3:U3 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1075           |                  |        |        | HR1074 (Lo-16bits)             |
| HR1076           | MEAS3:U3 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1077           |                  |        |        | HR1076 (Lo-16bits)             |
| HR1078           | MEAS3:U3 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1079           |                  |        |        | HR1078 (Lo-16bits)             |

| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR1080           | MEAS3:U3 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1081           |                  |        |        | HR1080 (Lo-16bits)             |
| HR1082           | MEAS3:U3 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1083           |                  |        |        | HR1082 (Lo-16bits)             |
| HR1084           | MEAS3:U3 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1085           |                  |        |        | HR1084 (Lo-16bits)             |
| HR1086           | MEAS3:U3 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1087           |                  |        |        | HR1086 (Lo-16bits)             |
| HR1088           | MEAS3:U3 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1089           |                  |        |        | HR1088 (Lo-16bits)             |
| HR1090           | MEAS3:U3 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1091           |                  |        |        | HR1090 (Lo-16bits)             |
| HR1092           | MEAS3:U3 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1093           |                  |        |        | HR1092 (Lo-16bits)             |
| HR1094           | MEAS3:U3 25.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1095           |                  |        |        | HR1094 (Lo-16bits)             |
| HR1096           | MEAS3:U3 26.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1097           |                  |        |        | HR1096 (Lo-16bits)             |
| HR1098           | MEAS3:U3 27.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1099           |                  |        |        | HR1098 (Lo-16bits)             |
| HR1100           | MEAS3:U3 28.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1101           |                  |        |        | HR1100 (Lo-16bits)             |
| HR1102           | MEAS3:U3 29.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1103           |                  |        |        | HR1102 (Lo-16bits)             |
| HR1104           | MEAS3:U3 30.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1105           |                  |        |        | HR1104 (Lo-16bits)             |
| HR1106           | MEAS3:U3 31.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1107           |                  |        |        | HR1106 (Lo-16bits)             |
| HR1108           | MEAS3:U4 Fund    | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1109           |                  |        |        | HR1108 (Lo-16bits)             |
| HR1110           | MEAS3:U4 2.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1111           |                  |        |        | HR1110 (Lo-16bits)             |
| HR1112           | MEAS3:U4 3.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1113           |                  |        |        | HR1112 (Lo-16bits)             |
| HR1114           | MEAS3:U4 4.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1115           |                  |        |        | HR1114 (Lo-16bits)             |
| HR1116           | MEAS3:U4 5.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1117           |                  |        |        | HR1116 (Lo-16bits)             |



| Holding Register | Parameter        | Access | Length | Info                           |
|------------------|------------------|--------|--------|--------------------------------|
| HR1118           | MEAS3:U4 6.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1119           |                  |        |        | HR1118 (Lo-16bits)             |
| HR1120           | MEAS3:U4 7.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1121           |                  |        |        | HR1120 (Lo-16bits)             |
| HR1122           | MEAS3:U4 8.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1123           |                  |        |        | HR1122 (Lo-16bits)             |
| HR1124           | MEAS3:U4 9.harm  | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1125           |                  |        |        | HR1124 (Lo-16bits)             |
| HR1126           | MEAS3:U4 10.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1127           |                  |        |        | HR1126 (Lo-16bits)             |
| HR1128           | MEAS3:U4 11.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1129           |                  |        |        | HR1128 (Lo-16bits)             |
| HR1130           | MEAS3:U4 12.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1131           |                  |        |        | HR1130 (Lo-16bits)             |
| HR1132           | MEAS3:U4 13.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1133           |                  |        |        | HR1132 (Lo-16bits)             |
| HR1134           | MEAS3:U4 14.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1135           |                  |        |        | HR1134 (Lo-16bits)             |
| HR1136           | MEAS3:U4 15.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1137           |                  |        |        | HR1136 (Lo-16bits)             |
| HR1138           | MEAS3:U4 16.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1139           |                  |        |        | HR1138 (Lo-16bits)             |
| HR1140           | MEAS3:U4 17.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1141           |                  |        |        | HR1140 (Lo-16bits)             |
| HR1142           | MEAS3:U4 18.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1143           |                  |        |        | HR1142 (Lo-16bits)             |
| HR1144           | MEAS3:U4 19.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1145           |                  |        |        | HR1144 (Lo-16bits)             |
| HR1146           | MEAS3:U4 20.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1147           |                  |        |        | HR1146 (Lo-16bits)             |
| HR1148           | MEAS3:U4 21.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1149           |                  |        |        | HR1148 (Lo-16bits)             |
| HR1150           | MEAS3:U4 22.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1151           |                  |        |        | HR1150 (Lo-16bits)             |
| HR1152           | MEAS3:U4 23.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1153           |                  |        |        | HR1152 (Lo-16bits)             |
| HR1154           | MEAS3:U4 24.harm | R      | 2      | FLOAT [0...100000] (Hi-16bits) |
| HR1155           |                  |        |        | HR1154 (Lo-16bits)             |

| Holding Register | Parameter                          | Access | Length | Info                                   |
|------------------|------------------------------------|--------|--------|--|
| HR1156           | MEAS3:U4 25.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1157           |                                    |        |        | HR1156 (Lo-16bits)                     |
| HR1158           | MEAS3:U4 26.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1159           |                                    |        |        | HR1158 (Lo-16bits)                     |
| HR1160           | MEAS3:U4 27.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1161           |                                    |        |        | HR1160 (Lo-16bits)                     |
| HR1162           | MEAS3:U4 28.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1163           |                                    |        |        | HR1162 (Lo-16bits)                     |
| HR1164           | MEAS3:U4 29.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1165           |                                    |        |        | HR1164 (Lo-16bits)                     |
| HR1166           | MEAS3:U4 30.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1167           |                                    |        |        | HR1166 (Lo-16bits)                     |
| HR1168           | MEAS3:U4 31.harm                   | R      | 2      | FLOAT [0...100000] (Hi-16bits)         |
| HR1169           |                                    |        |        | HR1168 (Lo-16bits)                     |
| HR1170           | POW1:Exp.Active Energy MWh         | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1171           |                                    |        |        | HR1170 (Lo-16bits)                     |
| HR1172           | POW1:Exp.Active Energy kWh         | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1173           |                                    |        |        | HR1172 (Lo-16bits)                     |
| HR1174           | POW1:Imp.Active Energy MWh         | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1175           |                                    |        |        | HR1174 (Lo-16bits)                     |
| HR1176           | POW1:Imp.Active Energy kWh         | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1177           |                                    |        |        | HR1176 (Lo-16bits)                     |
| HR1178           | POW1:Exp/Imp Act. E balance MWh    | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1179           |                                    |        |        | HR1178 (Lo-16bits)                     |
| HR1180           | POW1:Exp/Imp Act. E balance kWh    | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1181           |                                    |        |        | HR1180 (Lo-16bits)                     |
| HR1182           | POW1:Exp.React.Cap.E.MVarh         | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1183           |                                    |        |        | HR1182 (Lo-16bits)                     |
| HR1184           | POW1:Exp.React.Cap.E.kVarh         | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1185           |                                    |        |        | HR1184 (Lo-16bits)                     |
| HR1186           | POW1:Imp.React.Cap.E.MVarh         | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1187           |                                    |        |        | HR1186 (Lo-16bits)                     |
| HR1188           | POW1:Imp.React.Cap.E.kVarh         | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1189           |                                    |        |        | HR1188 (Lo-16bits)                     |
| HR1190           | POW1:Exp/Imp React.Cap.E.bal.MVarh | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1191           |                                    |        |        | HR1190 (Lo-16bits)                     |

| Holding Register | Parameter                            | Access | Length | Info                                   |
|------------------|--------------------------------------|--------|--------|--|
| HR1192           | POW1:Exp/Imp React.Cap.E.bal.kVarh   | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1193           |                                      |        |        | HR1192 (Lo-16bits)                     |
| HR1194           | POW1:Exp.React.Ind.E.MVarh           | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1195           |                                      |        |        | HR1194 (Lo-16bits)                     |
| HR1196           | POW1:Exp.React.Ind.E.kVarh           | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1197           |                                      |        |        | HR1196 (Lo-16bits)                     |
| HR1198           | POW1:Imp.React.Ind.E.MVarh           | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1199           |                                      |        |        | HR1198 (Lo-16bits)                     |
| HR1200           | POW1:Imp.React.Ind.E.kVarh           | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1201           |                                      |        |        | HR1200 (Lo-16bits)                     |
| HR1202           | POW1:Exp/Imp React.Ind.E.bal.MVarh   | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1203           |                                      |        |        | HR1202 (Lo-16bits)                     |
| HR1204           | POW1:Exp/Imp React.Ind.E.bal.kVarh   | RW     | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1205           |                                      |        |        | HR1204 (Lo-16bits)                     |
| HR1206           | POW1:Reset 3ph Energies              | RW     | 1      | 0=-; 1=Reset                           |
| HR1207           | POW1:POW1 3PH Apparent power (S)     | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1208           |                                      |        |        | HR1207 (Lo-16bits)                     |
| HR1209           | POW1:POW1 3PH Apparent power (S MVA) | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1210           |                                      |        |        | HR1209 (Lo-16bits)                     |
| HR1211           | POW1:POW1 3PH Active power (P)       | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1212           |                                      |        |        | HR1211 (Lo-16bits)                     |
| HR1213           | POW1:POW1 3PH Active power (P MW)    | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1214           |                                      |        |        | HR1213 (Lo-16bits)                     |
| HR1215           | POW1:POW1 3PH Reactive power (Q)     | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1216           |                                      |        |        | HR1215 (Lo-16bits)                     |
| HR1217           | POW1:POW1 3PH Reactive power (QMVar) | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1218           |                                      |        |        | HR1217 (Lo-16bits)                     |
| HR1219           | POW1:POW1 3PH Tan(phi)               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1220           |                                      |        |        | HR1219 (Lo-16bits)                     |
| HR1221           | POW1:POW1 3PH Cos(phi)               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1222           |                                      |        |        | HR1221 (Lo-16bits)                     |
| HR1223           | FLTREG:Recorded fault value          | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits) |
| HR1224           |                                      |        |        | HR1223 (Lo-16bits)                     |

| Holding Register | Parameter  | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR1225           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1226           |  |        |        | HR1225 (Lo-16bits)  |
| HR1227           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1228           |  |        |        | HR1227 (Lo-16bits)  |
| HR1229           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1230           |  |        |        | HR1229 (Lo-16bits)  |
| HR1231           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1232           |  |        |        | HR1231 (Lo-16bits)  |
| HR1233           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1234           |  |        |        | HR1233 (Lo-16bits)  |
| HR1235           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1236           |  |        |        | HR1235 (Lo-16bits)  |
| HR1237           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1238           |  |        |        | HR1237 (Lo-16bits)  |
| HR1239           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1240           |  |        |        | HR1239 (Lo-16bits)  |
| HR1241           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1242           |  |        |        | HR1241 (Lo-16bits)  |
| HR1243           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1244           |  |        |        | HR1243 (Lo-16bits)  |
| HR1245           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)  |
| HR1246           |  |        |        | HR1245 (Lo-16bits)  |
| HR1247           | FREQS:f atm. Protections<br>(when not measurable returns to nominal) | R      | 2      | FLOAT [0...75] (Hi-16bits)  |
| HR1248           |  |        |        | HR1247 (Lo-16bits)  |
| HR1249           | DIGI:DIs   | R      | 2      | 0b=DI1; 1b=DI2; 2b=DI3; 3b=DI4; 4b=DI5; 5b=DI6;<br>6b=DI7; 7b=DI8; 8b=DI9; 9b=DI10; 10b=DI11; 11b=DI12;<br>12b=DI13; 13b=DI14; 14b=DI15; 15b=DI16; 16b=DI17;<br>17b=DI18; 18b=DI19; 19b=DI20; 20b=DI21; 21b=DI22;<br>22b=DI23; 23b=DI24; 24b=DI25; 25b=DI26; 26b=DI27;<br>27b=DI28; 28b=DI29; 29b=DI30; 30b=DI31; 31b=DI32<br>(Hi-16bits) |
| HR1250           |  |        |        | HR1249 (Lo-16bits)  |
| HR1251           | DIGI:DIs   | R      | 2      | 0b=DI33; 1b=DI34; 2b=DI35; 3b=DI36; 4b=DI37;<br>5b=DI38; 6b=DI39; 7b=DI40; 8b=DI41; 9b=DI42;<br>10b=DI43; 11b=DI44; 12b=DI45; 13b=DI46; 14b=DI47;<br>15b=DI48; 16b=DI49; 17b=DI50; 18b=DI51 (Hi-16bits)   |
| HR1252           |  |        |        | HR1251 (Lo-16bits)  |
| HR1253           | RELE:Outputs status  | R      | 2      | 0b=O1; 1b=O2; 2b=O3; 3b=O4; 4b=O5; 5b=O6; 6b=O7;<br>7b=O8; 8b=O9; 9b=O10; 10b=O11; 11b=O12; 12b=O13;<br>13b=O14; 14b=O15 (Hi-16bits)  |
| HR1254           |  |        |        | HR1253 (Lo-16bits)  |

| Holding Register | Parameter                | Access | Length | Info   |
|------------------|--------------------------|--------|--------|--|
| HR1255           | SGS:Active setting group | R      | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8   |
| HR1256           | SGS:Force SG             | RW     | 1      | 0=none; 1=SG1; 2=SG2; 3=SG3; 4=SG4; 5=SG5; 6=SG6; 7=SG7; 8=SG8   |
| HR1257           | SGS:Force SG change      | RW     | 1      | 0=Disabled; 1=Enabled  |
| HR1258           | SGS:Used setting groups  | RW     | 1      | 0=SG1; 1=SG1...2; 2=SG1...3; 3=SG1...4; 4=SG1...5; 5=SG1...6; 6=SG1...7; 7=SG1...8                                 |
| HR1259           | SGS:Remote SG change     | RW     | 1      | 0=none; 1=SG1; 2=SG2; 3=SG3; 4=SG4; 5=SG5; 6=SG6; 7=SG7; 8=SG8   |
| HR1260           | LOGIC:Reset Latches      | RW     | 1      | 0=-; 1=Reset   |
| HR1261           | NOC1: > condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1262           | NOC2: >> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1263           | NOC3: >>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1264           | NOC4: >>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1265           | DOC1: dir> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1266           | DOC2: dir>> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1267           | DOC3: dir>>> condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1268           | DOC4: dir>>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1269           | NEF1: 0> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1270           | NEF1:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1271           | NEF2: 0>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1272           | NEF2:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1273           | NEF3: 0>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1274           | NEF3:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1275           | NEF4: 0>>>> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1276           | NEF4:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1277           | DEF1: 0dir> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1278           | DEF1:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1279           | DEF1: 0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1280           | DEF2: 0dir>> condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1281           | DEF2:U0>> Measuring now  | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1282           | DEF2: 0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1283           | DEF3: 0dir>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1284           | DEF3:U0>>> Measuring now | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |

| Holding Register | Parameter                 | Access | Length | Info   |
|------------------|---------------------------|--------|--------|--|
| HR1285           | DEF3:I0 Direction now     | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1286           | DEF4:I0dir>>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1287           | DEF4:U0>>>> Measuring now | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1288           | DEF4:I0 Direction now     | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1289           | IEF1:I0Int> condition     | R      | 1      | 0=Normal; 1=StartFWD; 2=StartREV; 3=Trip; 4=Blocked;   |
| HR1290           | IEF1:U0> Measuring now    | R      | 1      | 0=No U0 avail!; 1=U3 Input; 2=U4 Input   |
| HR1291           | CUB1:I2> condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1292           | CUB2:I2>> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1293           | CUB3:I2>>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1294           | CUB4:I2>>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1295           | HOC1:Ih> condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1296           | HOC1:L1 Harm p.u.         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1297           |                           |        |        | HR1296 (Lo-16bits)   |
| HR1298           | HOC1:L1 Harm per          | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1299           |                           |        |        | HR1298 (Lo-16bits)   |
| HR1300           | HOC1:L2 Harm p.u.         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1301           |                           |        |        | HR1300 (Lo-16bits)   |
| HR1302           | HOC1:L2 Harm per          | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1303           |                           |        |        | HR1302 (Lo-16bits)   |
| HR1304           | HOC1:L3 Harm p.u.         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1305           |                           |        |        | HR1304 (Lo-16bits)   |
| HR1306           | HOC1:L3 Harm per          | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1307           |                           |        |        | HR1306 (Lo-16bits)   |
| HR1308           | HOC1:I01 Harm p.u.        | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1309           |                           |        |        | HR1308 (Lo-16bits)   |
| HR1310           | HOC1:I01 Harm per         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1311           |                           |        |        | HR1310 (Lo-16bits)   |
| HR1312           | HOC1:I02 Harm p.u.        | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1313           |                           |        |        | HR1312 (Lo-16bits)   |
| HR1314           | HOC1:I02 Harm per         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1315           |                           |        |        | HR1314 (Lo-16bits)   |
| HR1316           | HOC2:Ih>> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1317           | HOC2:L1 Harm p.u.         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1318           |                           |        |        | HR1317 (Lo-16bits)   |
| HR1319           | HOC2:L1 Harm per          | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1320           |                           |        |        | HR1319 (Lo-16bits)   |
| HR1321           | HOC2:L2 Harm p.u.         | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |

| Holding Register | Parameter             | Access | Length | Info                                 |
|------------------|-----------------------|--------|--------|--------------------------------------|
| HR1322           |                       |        |        | HR1321 (Lo-16bits)                   |
| HR1323           | HOC2:L2 Harm per      | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1324           |                       |        |        | HR1323 (Lo-16bits)                   |
| HR1325           | HOC2:L3 Harm p.u.     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1326           |                       |        |        | HR1325 (Lo-16bits)                   |
| HR1327           | HOC2:L3 Harm per      | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1328           |                       |        |        | HR1327 (Lo-16bits)                   |
| HR1329           | HOC2:I01 Harm p.u.    | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1330           |                       |        |        | HR1329 (Lo-16bits)                   |
| HR1331           | HOC2:I01 Harm per     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1332           |                       |        |        | HR1331 (Lo-16bits)                   |
| HR1333           | HOC2:I02 Harm p.u.    | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1334           |                       |        |        | HR1333 (Lo-16bits)                   |
| HR1335           | HOC2:I02 Harm per     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1336           |                       |        |        | HR1335 (Lo-16bits)                   |
| HR1337           | HOC3:Ih>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked |
| HR1338           | HOC3:L1 Harm p.u.     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1339           |                       |        |        | HR1338 (Lo-16bits)                   |
| HR1340           | HOC3:L1 Harm per      | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1341           |                       |        |        | HR1340 (Lo-16bits)                   |
| HR1342           | HOC3:L2 Harm p.u.     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1343           |                       |        |        | HR1342 (Lo-16bits)                   |
| HR1344           | HOC3:L2 Harm per      | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1345           |                       |        |        | HR1344 (Lo-16bits)                   |
| HR1346           | HOC3:L3 Harm p.u.     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1347           |                       |        |        | HR1346 (Lo-16bits)                   |
| HR1348           | HOC3:L3 Harm per      | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1349           |                       |        |        | HR1348 (Lo-16bits)                   |
| HR1350           | HOC3:I01 Harm p.u.    | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1351           |                       |        |        | HR1350 (Lo-16bits)                   |
| HR1352           | HOC3:I01 Harm per     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1353           |                       |        |        | HR1352 (Lo-16bits)                   |
| HR1354           | HOC3:I02 Harm p.u.    | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1355           |                       |        |        | HR1354 (Lo-16bits)                   |
| HR1356           | HOC3:I02 Harm per     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |
| HR1357           |                       |        |        | HR1356 (Lo-16bits)                   |
| HR1358           | HOC4:Ih>>>> condition | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked |
| HR1359           | HOC4:L1 Harm p.u.     | R      | 2      | FLOAT [0...100000] (Hi-16bits)       |

| Holding Register | Parameter               | Access | Length | Info   |
|------------------|-------------------------|--------|--------|--|
| HR1360           |                         |        |        | HR1359 (Lo-16bits)   |
| HR1361           | HOC4:L1 Harm per        | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1362           |                         |        |        | HR1361 (Lo-16bits)   |
| HR1363           | HOC4:L2 Harm p.u.       | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1364           |                         |        |        | HR1363 (Lo-16bits)   |
| HR1365           | HOC4:L2 Harm per        | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1366           |                         |        |        | HR1365 (Lo-16bits)   |
| HR1367           | HOC4:L3 Harm p.u.       | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1368           |                         |        |        | HR1367 (Lo-16bits)   |
| HR1369           | HOC4:L3 Harm per        | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1370           |                         |        |        | HR1369 (Lo-16bits)   |
| HR1371           | HOC4:I01 Harm p.u.      | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1372           |                         |        |        | HR1371 (Lo-16bits)   |
| HR1373           | HOC4:I01 Harm per       | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1374           |                         |        |        | HR1373 (Lo-16bits)   |
| HR1375           | HOC4:I02 Harm p.u.      | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1376           |                         |        |        | HR1375 (Lo-16bits)   |
| HR1377           | HOC4:I02 Harm per       | R      | 2      | FLOAT [0...100000] (Hi-16bits)   |
| HR1378           |                         |        |        | HR1377 (Lo-16bits)   |
| HR1379           | CLP1:CLP condition      | R      | 1      | 0=Normal; 1=Curr low; 2=Overcurrent On; 3=CLPU On; 4=CLPU blocked  |
| HR1380           | CBF1:CBFP condition     | R      | 1      | 0=Normal; 1=Start; 2=ReTrip; 3=CBFP On; 4=Blocked  |
| HR1381           | TRF1:Transformer is now | R      | 1      | 0=No/LightLoad; 1=Energizing; 2=Normal load; 3=Overloaded; 4=On high overload  |
| HR1382           | DIF1:Id< condition      | R      | 2      | 0b=Idb> Trip; 1b=Idb> Blocked; 2b=Idi> Trip; 3b=Idi> Blocked; 4b=2nd Harm block on; 5b=5th harm block on; 6b=L1 2h On; 7b=L2 2h On; 8b=L3 2h On; 9b=L1 5h On; 10b=L2 5h On; 11b=L3 5h On (Hi-16bits) |
| HR1383           |                         |        |        | HR1382 (Lo-16bits)   |
| HR1384           | DIF1:L1 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1385           | DIF1:L2 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1386           | DIF1:L3 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1387           | REF1:I0d< condition     | R      | 1      | 0=Normal; 1=Trip; 2=Blocked  |
| HR1388           | TOLT1:TT< condition     | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked   |
| HR1389           | TOLT1:Thermal status    | R      | 1      | 0=Light / No load; 1=High overload; 2=Overloading; 3=Load normal   |
| HR1390           | TOLT1:Temp C or F deg   | RW     | 1      | 0=C; 1=F   |
| HR1391           | TOLT1:Ambient Temp Sel  | RW     | 1      | 0=Manual Set; 1=RTD Meas   |



| Holding Register | Parameter                           | Access | Length | Info   |
|------------------|-------------------------------------|--------|--------|--|
| HR1392           | TOLT1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1393           | TOLF1:TF> condition                 | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked |
| HR1394           | TOLF1:Thermal status                | R      | 1      | 0=Light / No load; 1=High overload; 2=Overloading; 3=Load normal       |
| HR1395           | TOLF1:Temp C or F deg               | RW     | 1      | 0=C; 1=F   |
| HR1396           | TOLF1:Ambient Temp Sel              | RW     | 1      | 0=Manual Set; 1=RTD Meas   |
| HR1397           | TOLF1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1398           | TOLF1:Set or Estimate tau (t const) | RW     | 1      | 0=Set; 1=Estimate  |
| HR1399           | MST1:Motor is now                   | R      | 1      | 0=Stopped; 1=Starting; 2=Running; 3=Stalled                            |
| HR1400           | TOLM1:TM> condition                 | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked |
| HR1401           | TOLM1:Motor status                  | R      | 1      | 0=Stopped; 1=Stalled; 2=JustStopped; 3=Overloading; 4=Running normal   |
| HR1402           | TOLM1:Temp C or F deg               | RW     | 1      | 0=C; 1=F   |
| HR1403           | TOLM1:NPS Biasing in use            | RW     | 1      | 0=No NPS biasing; 1=NPS Biasing in use                                 |
| HR1404           | TOLM1:Time constants                | RW     | 1      | 0=Single; 1=Multiple   |
| HR1405           | TOLM1:Estimate Short TC and timings | RW     | 1      | 0=Set manually; 1=Estimate (on-line)                                   |
| HR1406           | TOLM1:T const dyn. balancing        | RW     | 1      | 0=Fixed; 1=Dynamic   |
| HR1407           | TOLM1:Dev.Temp (tmax)               | RW     | 1      | 0=A; 1=B; 2=F; 3=H; 4=Manual set                                       |
| HR1408           | TOLM1:Amb. T Selection              | RW     | 1      | 0=Manual set; 1=RTD  |
| HR1409           | TOLM1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1410           | LCR1:IS> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Set time Trip; 3=M cap Trip; 4=Blocked            |
| HR1411           | FSP1:N> condition                   | R      | 1      | 0=Normal; 1=Alarm On; 2=Inhibits; 3=Blocked                            |
| HR1412           | NUC1:I< condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1413           | MJP1:Im> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1414           | OV1:U> condition                    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1415           | OV2:U>> condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1416           | OV3:U>>> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1417           | OV4:U>>>> condition                 | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1418           | UV1:U< condition                    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1419           | UV2:U<< condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1420           | UV3:U<<< condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1421           | UV4:U<<<< condition                 | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1422           | NOV1:U0> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1423           | NOV1:U0> Measuring now              | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                       |

| Holding Register | Parameter                     | Access | Length | Info  |
|------------------|-------------------------------|--------|--------|---|
| HR1424           | NOV2:U0>> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1425           | NOV2:U0>> Measuring now       | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1426           | NOV3:U0>>> condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1427           | NOV3:U0>>> Measuring now      | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1428           | NOV4:U0>>>> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1429           | NOV4:U0>>>> Measuring now     | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1430           | VUB1:U1/2 >/< condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1431           | VUB2:U1/2 >>/<< condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1432           | VUB3:U1/2 >>>/<<< condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1433           | VUB4:U1/2 >>>>/<<<< condition | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1434           | FRQC1:f> [Curr] condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1435           | FRQC1:f>> [Curr] condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1436           | FRQC1:f>>> [Curr] condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1437           | FRQC1:f>>>> [Curr] condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1438           | FRQC1:f< [Curr] condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1439           | FRQC1:f<< [Curr] condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1440           | FRQC1:f<<< [Curr] condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1441           | FRQC1:f<<<< [Curr] condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1442           | FRQV1:f> condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1443           | FRQV1:f>> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1444           | FRQV1:f>>> condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1445           | FRQV1:f>>>> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1446           | FRQV1:f< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1447           | FRQV1:f<< condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1448           | FRQV1:f<<< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1449           | FRQV1:f<<<< condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1450           | DFT1:df/dt >/< (1) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1451           | DFT1:df/dt >/< (2) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1452           | DFT1:df/dt >/< (3) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1453           | DFT1:df/dt >/< (4) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1454           | DFT1:df/dt >/< (5) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1455           | DFT1:df/dt >/< (6) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1456           | DFT1:df/dt >/< (7) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1457           | DFT1:df/dt >/< (8) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1458           | GST1:Generator is now         | R      | 1      | 0=No/LightLoad; 1=Normal load; 2=Overloaded; 3=On high overload |
| HR1459           | OPW1:P> condition             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1460           | UPW1:P< condition             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |

| Holding Register | Parameter                    | Access | Length | Info  |
|------------------|------------------------------|--------|--------|---|
| HR1461           | RPW1:Prev> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1462           | SEF1:U03rd< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1463           | SEF1:U03rd< Measuring now    | R      | 1      | 0=No U0 avail!; 1=U3 Input; 2=U4 Input  |
| HR1464           | UEX1:Q< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1465           | UIM1:Z< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1466           | VOC1:lv> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1467           | VOC1:Voltage measurement     | R      | 1      | 0=Invalid U1 not avail.; 1=Ok   |
| HR1468           | VHZ1:V/Hz(1) > condition     | R      | 1      | 0=Normal; 1=Start; ; 2=Alarm; 3=Trip; 4=Blocked   |
| HR1469           | UPF1:PF< condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Alarm Start; 5=Alarm  |
| HR1470           | ARC1:I/I0 Arc> condition     | R      | 1      | 0b=Z1 Trip; 1b=Z1 Blocked; 2b=Z2 Trip; 3b=Z2 Blocked; 4b=Z3 Trip; 5b=Z3 Blocked; 6b=Z4 Trip; 7b=Z4 Blocked                      |
| HR1471           | CTS1:CTS1 condition          | R      | 1      | 0=Normal; 1=Alarm; 2=Blocked  |
| HR1472           | CTS2:CTS2 condition          | R      | 1      | 0=Normal; 1=Alarm; 2=Blocked  |
| HR1473           | VTS1:VTS condition           | R      | 1      | 0=Normal; 1=Start; 2=VTBusfail; 3=VTLinefail; 4=Blocked   |
| HR1474           | VTS1:Bus voltages            | R      | 1      | 0=Bus dead; 1=Bus Live VTS Ok SEQ Ok; 2=Bus Live VTS Ok SEQ Rev; 3=Bus Live VTS Ok SEQ Undef; 4=Bus Live VTS problem            |
| HR1475           | FLX1:Fault locator condition | R      | 1      | 0=Idle; 1=Triggered; 2=Calc ready   |
| HR1476           | THD1:THD condition           | R      | 1      | 0=Normal; 1=Start; 2=Alarm; 3=Blocked   |
| HR1477           | CBW1:CBW condition           | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On  |
| HR1478           | NJK1:U0> RECL condition      | R      | 1      | 0=Normal; 1=Requested; 2=Blocked; 3=Active; 4=BK clo cmd; 5=Bk Closed.U0> blocked   |
| HR1479           | SOF1:SOTF condition          | R      | 1      | 0=Normal; 1=Init; 2=Active; 3=Trip; 4=Blocked   |
| HR1480           | SYN1:SYN1 Condition          | R      | 2      | 0b=SYN1 Blocked; 1b=SYN1 Ok; 2b=SYN1 Bypass; 3b=SYN1 Vcond Ok; 4b=SYN1 Vdiff Ok; 5b=SYN1 Adiff Ok; 6b=SYN1 fdiff Ok (Hi-16bits) |
| HR1481           |                              |        |        | HR1480 (Lo-16bits)  |
| HR1482           | SYN1:SYN2 Condition          | R      | 2      | 0b=SYN2 Blocked; 1b=SYN2 Ok; 2b=SYN2 Bypass; 3b=SYN2 Vcond Ok; 4b=SYN2 Vdiff Ok; 5b=SYN2 Adiff Ok; 6b=SYN2 fdiff Ok (Hi-16bits) |
| HR1483           |                              |        |        | HR1482 (Lo-16bits)  |
| HR1484           | SYN1:SYN3 Condition          | R      | 2      | 0b=SYN3 Blocked; 1b=SYN3 Ok; 2b=SYN3 Bypass; 3b=SYN3 Vcond Ok; 4b=SYN3 Vdiff Ok; 5b=SYN3 Adiff Ok; 6b=SYN3 fdiff Ok (Hi-16bits) |
| HR1485           |                              |        |        | HR1484 (Lo-16bits)  |
| HR1486           | OBJ1:Object1 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1487           | OBJ2:Object2 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1488           | OBJ3:Object3 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1489           | OBJ4:Object4 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1490           | OBJ5:Object5 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1491           | CIN1:Ind.1 Object Status     | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1492           | CIN2:Ind.2 Object Status     | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |

| Holding Register | Parameter                             | Access | Length | Info  |
|------------------|---------------------------------------|--------|--------|---|
| HR1493           | CIN3:Ind.3 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1494           | CIN4:Ind.4 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1495           | CIN5:Ind.5 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1496           | AR1:AR Status                         | R      | 2      | 0b=AR is inhibit; 1b=AR is ready; 2b=AR is locked; 3b=AR is running; 4b=AR is not running; 5b=Lock out delay is running; 6b=Reclaim time counting; 7b=Start time counting; 8b=Dead time counting; 9b=Arcing or discr time counting; 10b=Reclaim time counting; 11b=AR1 Requested; 12b=AR2 Requested; 13b=AR3 Requested; 14b=AR4 Requested; 15b=AR5 Requested; 16b=Executing Shot1; 17b=Executing Shot2; 18b=Executing Shot3; 19b=Executing Shot4; 20b=Executing Shot5; 21b=Shot Clear (Hi-16bits) |
| HR1497           |                                       |        |        | HR1496 (Lo-16bits)  |
| HR1498           | AR1:Timer active                      | R      | 1      | 0=-; 1=AR Lockout; 2=AR Reset Reclaim; 3=AR Start Delay; 4=AR Dead Time; 5=AR Discrimination; 6=AR Shot Reclaim;  |
| HR1499           | VRG1:Vreg settings condition          | R      | 2      | 0b=U>> set too low; 1b=U< set too high; 2b=U> set higher than U>>; 3b=U< set lower than U<<; 4=U>>> set too low; 5=U<<< set too high; 6=VT selection not ok (Hi-16bits)   |
| HR1500           |                                       |        |        | HR1499 (Lo-16bits)  |
| HR1501           | VRG1:Vreg condition                   | R      | 2      | 0b=Raise command on; 1b=Lower command on; 2b=Operation blocked; 3b=Output control blocked; 4b=U<<< Block on; 5b=I> block on; 6b=Tap on highlimit; 7b=Tap on lowlimit; 8b=Operation blocked; 9b=U>/< pickup on; 10b=U>>/<< pickup on; 11b=Control wait time on; 12b=Manual control on (Hi-16bits)  |
| HR1502           |                                       |        |        | HR1501 (Lo-16bits)  |
| HR1503           | VRG1:Vreg timer active                | R      | 1      | 0=-; 1=Fine tune Decrease; 2=Fine tune Increase; 3=Low set Decrease; 4=High set Decrease; 5=Instant Decrease; 6=Low set Increase; 7=High set Increase   |
| HR1504           | VRG1:Voltage meas condition           | R      | 1      | 0=Not configured; 1=System U12; 2=System U23; 3=System U31; 4=VT4 meas U12; 5=VT4 meas U23; 6=VT4 meas U31; 7=VT4 conf not ok   |
| HR1505           | EMON1:I> (50) Monitor condition       | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1506           | EMON1:I0> (50N) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1507           | EMON1:Idir> (67) Monitor condition    | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1508           | EMON1:I0dir> (67N) Monitor condition  | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1509           | EMON1:I0Int> (67NT) Monitor condition | R      | 1      | 0=Normal; 1=FLT FW; 2=FLT REV   |
| HR1510           | EMON1:U< (27) Monitor condition       | R      | 1      | 0=Normal; 1=Undervoltage; 2=No voltage  |
| HR1511           | EMON1:U0> (59N) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1512           | EMON1:FL (21FL) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1513           | MEAS1:Meas1 IL ang. Ref               | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR1514           |                                       |        |        | HR1513 (Lo-16bits)  |

| Holding Register | Parameter                  | Access | Length | Info   |
|------------------|----------------------------|--------|--------|--|
| HR1515           | DIF1:REFHV> condition      | R      | 2      | 0b=HV REF Blocked; 1b=HV REF Trip (Hi-16bits)  |
| HR1516           |                            |        |        | HR1515 (Lo-16bits)   |
| HR1517           | DIF1:REFLV> condition      | R      | 2      | 0b=LV REF Blocked; 1b=LV REF Trip (Hi-16bits)  |
| HR1518           |                            |        |        | HR1517 (Lo-16bits)   |
| HR1519           | ALARM:Alarms 1-32          | R      | 2      | 0b=A1; 1b=A2; 2b=A3; 3b=A4; 4b=A5; 5b=A6; 6b=A7; 7b=A8; 8b=A9; 9b=A10; 10b=A11; 11b=A12; 12b=A13; 13b=A14; 14b=A15; 15b=A16; 16b=A17; 17b=A18; 18b=A19; 19b=A20; 20b=A21; 21b=A22; 22b=A23; 23b=A24; 24b=A25; 25b=A26; 26b=A27; 27b=A28; 28b=A29; 29b=A30; 30b=A31; 31b=A32 (Hi-16bits)          |
| HR1520           |                            |        |        | HR1519 (Lo-16bits)   |
| HR1521           | ALARM:Alarms 33-64         | R      | 2      | 0b=A33; 1b=A34; 2b=A35; 3b=A36; 4b=A37; 5b=A38; 6b=A39; 7b=A40; 8b=A41; 9b=A42; 10b=A43; 11b=A44; 12b=A45; 13b=A46; 14b=A47; 15b=A48; 16b=A49; 17b=A50; 18b=A51; 19b=A52; 20b=A53; 21b=A54; 22b=A55; 23b=A56; 24b=A57; 25b=A58; 26b=A59; 27b=A60; 28b=A61; 29b=A62; 30b=A63; 31b=A64 (Hi-16bits) |
| HR1522           |                            |        |        | HR1521 (Lo-16bits)   |
| HR1523           | DIAG:Configuration changed | R      | 2      | UINT32 [0...4294967295] (Hi-16bits)  |
| HR1524           |                            |        |        | HR1523 (Lo-16bits)   |
| HR1525           | RTDIN:S1 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1526           |                            |        |        | HR1525 (Lo-16bits)   |
| HR1527           | RTDIN:S2 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1528           |                            |        |        | HR1527 (Lo-16bits)   |
| HR1529           | RTDIN:S3 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1530           |                            |        |        | HR1529 (Lo-16bits)   |
| HR1531           | RTDIN:S4 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1532           |                            |        |        | HR1531 (Lo-16bits)   |
| HR1533           | RTDIN:S5 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1534           |                            |        |        | HR1533 (Lo-16bits)   |
| HR1535           | RTDIN:S6 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1536           |                            |        |        | HR1535 (Lo-16bits)   |
| HR1537           | RTDIN:S7 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1538           |                            |        |        | HR1537 (Lo-16bits)   |
| HR1539           | RTDIN:S7 Measurement mA    | R      | 2      | FLOAT [0...20] (Hi-16bits)   |
| HR1540           |                            |        |        | HR1539 (Lo-16bits)   |
| HR1541           | RTDIN:S8 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1542           |                            |        |        | HR1541 (Lo-16bits)   |
| HR1543           | RTDIN:S8 Measurement mA    | R      | 2      | FLOAT [0...20] (Hi-16bits)   |
| HR1544           |                            |        |        | HR1543 (Lo-16bits)   |
| HR1545           | RTDIN:S9 Measurement(Raw)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)  |
| HR1546           |                            |        |        | HR1545 (Lo-16bits)   |

| Holding Register | Parameter                        | Access | Length | Info                            |
|------------------|----------------------------------|--------|--------|---------------------------------|
| HR1547           | RTDIN:S10 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1548           |                                  |        |        | HR1547 (Lo-16bits)              |
| HR1549           | RTDIN:S11 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1550           |                                  |        |        | HR1549 (Lo-16bits)              |
| HR1551           | RTDIN:S12 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1552           |                                  |        |        | HR1551 (Lo-16bits)              |
| HR1553           | RTDIN:S13 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1554           |                                  |        |        | HR1553 (Lo-16bits)              |
| HR1555           | RTDIN:S14 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1556           |                                  |        |        | HR1555 (Lo-16bits)              |
| HR1557           | RTDIN:S15 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1558           |                                  |        |        | HR1557 (Lo-16bits)              |
| HR1559           | RTDIN:S15 Measurement mA         | R      | 2      | FLOAT [0...20] (Hi-16bits)      |
| HR1560           |                                  |        |        | HR1559 (Lo-16bits)              |
| HR1561           | RTDIN:S16 Measurement(Raw)       | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1562           |                                  |        |        | HR1561 (Lo-16bits)              |
| HR1563           | RTDIN:S16 Measurement mA         | R      | 2      | FLOAT [0...20] (Hi-16bits)      |
| HR1564           |                                  |        |        | HR1563 (Lo-16bits)              |
| HR1565           | RTD1:S1 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1566           |                                  |        |        | HR1565 (Lo-16bits)              |
| HR1567           | RTD1:S2 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1568           |                                  |        |        | HR1567 (Lo-16bits)              |
| HR1569           | RTD1:S3 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1570           |                                  |        |        | HR1569 (Lo-16bits)              |
| HR1571           | RTD1:S4 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1572           |                                  |        |        | HR1571 (Lo-16bits)              |
| HR1573           | RTD1:S5 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1574           |                                  |        |        | HR1573 (Lo-16bits)              |
| HR1575           | RTD1:S6 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR1576           |                                  |        |        | HR1575 (Lo-16bits)              |

| Holding Register | Parameter                         | Access | Length | Info                                    |
|------------------|-----------------------------------|--------|--------|---|
| HR1577           | RTD1:S7 Measurement (Protection)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1578           |                                   |        |        | HR1577 (Lo-16bits)                      |
| HR1579           | RTD1:S8 Measurement (Protection)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1580           |                                   |        |        | HR1579 (Lo-16bits)                      |
| HR1581           | RTD1:S9 Measurement (Protection)  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1582           |                                   |        |        | HR1581 (Lo-16bits)                      |
| HR1583           | RTD1:S10 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1584           |                                   |        |        | HR1583 (Lo-16bits)                      |
| HR1585           | RTD1:S11 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1586           |                                   |        |        | HR1585 (Lo-16bits)                      |
| HR1587           | RTD1:S12 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1588           |                                   |        |        | HR1587 (Lo-16bits)                      |
| HR1589           | RTD1:S1 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1590           |                                   |        |        | HR1589 (Lo-16bits)                      |
| HR1591           | RTD1:S1 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1592           |                                   |        |        | HR1591 (Lo-16bits)                      |
| HR1593           | RTD1:S2 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1594           |                                   |        |        | HR1593 (Lo-16bits)                      |
| HR1595           | RTD1:S2 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1596           |                                   |        |        | HR1595 (Lo-16bits)                      |
| HR1597           | RTD1:S3 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1598           |                                   |        |        | HR1597 (Lo-16bits)                      |
| HR1599           | RTD1:S3 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1600           |                                   |        |        | HR1599 (Lo-16bits)                      |
| HR1601           | RTD1:S4 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1602           |                                   |        |        | HR1601 (Lo-16bits)                      |
| HR1603           | RTD1:S4 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1604           |                                   |        |        | HR1603 (Lo-16bits)                      |
| HR1605           | RTD1:S5 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1606           |                                   |        |        | HR1605 (Lo-16bits)                      |
| HR1607           | RTD1:S5 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1608           |                                   |        |        | HR1607 (Lo-16bits)                      |
| HR1609           | RTD1:S6 ALARM1 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1610           |                                   |        |        | HR1609 (Lo-16bits)                      |
| HR1611           | RTD1:S6 ALARM2 ON                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |

| Holding Register | Parameter                | Access | Length | Info  |
|------------------|--------------------------|--------|--------|---|
| HR1612           |                          |        |        | HR1611 (Lo-16bits)                              |
| HR1613           | RTD1:S7 ALARM1 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1614           |                          |        |        | HR1613 (Lo-16bits)                              |
| HR1615           | RTD1:S7 ALARM2 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1616           |                          |        |        | HR1615 (Lo-16bits)                              |
| HR1617           | RTD1:S8 ALARM1 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1618           |                          |        |        | HR1617 (Lo-16bits)                              |
| HR1619           | RTD1:S8 ALARM2 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1620           |                          |        |        | HR1619 (Lo-16bits)                              |
| HR1621           | RTD1:S9 ALARM1 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1622           |                          |        |        | HR1621 (Lo-16bits)                              |
| HR1623           | RTD1:S9 ALARM2 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1624           |                          |        |        | HR1623 (Lo-16bits)                              |
| HR1625           | RTD1:S10 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1626           |                          |        |        | HR1625 (Lo-16bits)                              |
| HR1627           | RTD1:S10 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1628           |                          |        |        | HR1627 (Lo-16bits)                              |
| HR1629           | RTD1:S11 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1630           |                          |        |        | HR1629 (Lo-16bits)                              |
| HR1631           | RTD1:S11 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1632           |                          |        |        | HR1631 (Lo-16bits)                              |
| HR1633           | RTD1:S12 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1634           |                          |        |        | HR1633 (Lo-16bits)                              |
| HR1635           | VHZ1:V/Hz(2) > condition | R      | 1      | 0=Normal; 1=Start; ; 2=Alarm; 3=Trip; 4=Blocked |
| HR1636           | RTD1:S12 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1637           |                          |        |        | HR1636 (Lo-16bits)                              |
| HR1638           | UIM2:Z<< condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked            |
| HR1639           | RTD1:S1 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1640           |                          |        |        | HR1639 (Lo-16bits)                              |
| HR1641           | RTD1:S2 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1642           |                          |        |        | HR1641 (Lo-16bits)                              |
| HR1643           | RTD1:S3 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1644           |                          |        |        | HR1643 (Lo-16bits)                              |
| HR1645           | RTD1:S4 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1646           |                          |        |        | HR1645 (Lo-16bits)                              |
| HR1647           | RTD1:S5 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1648           |                          |        |        | HR1647 (Lo-16bits)                              |
| HR1649           | RTD1:S6 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |



| Holding Register | Parameter                  | Access | Length | Info                                    |
|------------------|----------------------------|--------|--------|---|
| HR1650           |                            |        |        | HR1649 (Lo-16bits)                      |
| HR1651           | RTD1:S7 MEAS INVALID       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1652           |                            |        |        | HR1651 (Lo-16bits)                      |
| HR1653           | RTD1:S8 MEAS INVALID       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1654           |                            |        |        | HR1653 (Lo-16bits)                      |
| HR1655           | RTD1:S9 MEAS INVALID       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1656           |                            |        |        | HR1655 (Lo-16bits)                      |
| HR1657           | RTD1:S10 MEAS INVALID      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1658           |                            |        |        | HR1657 (Lo-16bits)                      |
| HR1659           | RTD1:S11 MEAS INVALID      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1660           |                            |        |        | HR1659 (Lo-16bits)                      |
| HR1661           | RTD1:S12 MEAS INVALID      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1662           |                            |        |        | HR1661 (Lo-16bits)                      |
| HR1663           | MBIO:MBIO ModA Ch1 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1664           |                            |        |        | HR1663 (Lo-16bits)                      |
| HR1665           | MBIO:MBIO ModA Ch2 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1666           |                            |        |        | HR1665 (Lo-16bits)                      |
| HR1667           | MBIO:MBIO ModA Ch3 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1668           |                            |        |        | HR1667 (Lo-16bits)                      |
| HR1669           | MBIO:MBIO ModA Ch4 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1670           |                            |        |        | HR1669 (Lo-16bits)                      |
| HR1671           | MBIO:MBIO ModA Ch5 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1672           |                            |        |        | HR1671 (Lo-16bits)                      |
| HR1673           | MBIO:MBIO ModA Ch6 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1674           |                            |        |        | HR1673 (Lo-16bits)                      |
| HR1675           | MBIO:MBIO ModA Ch7 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1676           |                            |        |        | HR1675 (Lo-16bits)                      |
| HR1677           | MBIO:MBIO ModA Ch8 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1678           |                            |        |        | HR1677 (Lo-16bits)                      |
| HR1679           | MBIO:MBIO ModB Ch1 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1680           |                            |        |        | HR1679 (Lo-16bits)                      |
| HR1681           | MBIO:MBIO ModB Ch2 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1682           |                            |        |        | HR1681 (Lo-16bits)                      |
| HR1683           | MBIO:MBIO ModB Ch3 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1684           |                            |        |        | HR1683 (Lo-16bits)                      |
| HR1685           | MBIO:MBIO ModB Ch4 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1686           |                            |        |        | HR1685 (Lo-16bits)                      |
| HR1687           | MBIO:MBIO ModB Ch5 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |

| Holding Register | Parameter                             | Access | Length | Info                                    |
|------------------|---------------------------------------|--------|--------|---|
| HR1688           |                                       |        |        | HR1687 (Lo-16bits)                      |
| HR1689           | MBIO:MBIO ModB Ch6 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1690           |                                       |        |        | HR1689 (Lo-16bits)                      |
| HR1691           | MBIO:MBIO ModB Ch7 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1692           |                                       |        |        | HR1691 (Lo-16bits)                      |
| HR1693           | MBIO:MBIO ModB Ch8 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1694           |                                       |        |        | HR1693 (Lo-16bits)                      |
| HR1695           | MBIO:MBIO ModC Ch1 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1696           |                                       |        |        | HR1695 (Lo-16bits)                      |
| HR1697           | MBIO:MBIO ModC Ch2 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1698           |                                       |        |        | HR1697 (Lo-16bits)                      |
| HR1699           | MBIO:MBIO ModC Ch3 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1700           |                                       |        |        | HR1699 (Lo-16bits)                      |
| HR1701           | MBIO:MBIO ModC Ch4 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1702           |                                       |        |        | HR1701 (Lo-16bits)                      |
| HR1703           | MBIO:MBIO ModC Ch5 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1704           |                                       |        |        | HR1703 (Lo-16bits)                      |
| HR1705           | MBIO:MBIO ModC Ch6 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1706           |                                       |        |        | HR1705 (Lo-16bits)                      |
| HR1707           | MBIO:MBIO ModC Ch7 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1708           |                                       |        |        | HR1707 (Lo-16bits)                      |
| HR1709           | MBIO:MBIO ModC Ch8 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1710           |                                       |        |        | HR1709 (Lo-16bits)                      |
| HR1711           | OBJ6:Object6 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad |
| HR1712           | OBJ7:Object7 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad |
| HR1713           | OBJ8:Object8 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad |
| HR1714           | OBJ9:Object9 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad |
| HR1715           | OBJ10:Object10 Breaker Status         | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad |
| HR1716           | VRG1:Voltage now                      | R      | 2      | FLOAT [0...140] (Hi-16bits)             |
| HR1717           |                                       |        |        | HR1716 (Lo-16bits)                      |
| HR1718           | VRG1:Voltage difference to set target | R      | 2      | FLOAT [-140...140] (Hi-16bits)          |
| HR1719           |                                       |        |        | HR1718 (Lo-16bits)                      |
| HR1720           | VRG1:Tap location now (- 0 +)         | R      | 2      | FLOAT [-30...30] (Hi-16bits)            |
| HR1721           |                                       |        |        | HR1720 (Lo-16bits)                      |
| HR1722           | VRG1:Absolute tap location            | R      | 2      | FLOAT [0...50] (Hi-16bits)              |
| HR1723           |                                       |        |        | HR1722 (Lo-16bits)                      |
| HR1724           | VRG1:Control mode                     | R      | 1      | 0=Auto; 1=Manual (loc&rem)              |

| Holding Register | Parameter                       | Access | Length | Info                                      |
|------------------|---------------------------------|--------|--------|---|
| HR1725           | VRG1:Remote tap control input   | RW     | 1      | 0=Stop; 1=Lower; 2=Higher                 |
| HR1726           | VJP1:<DELTA><alpha> > condition | R      | 1      | 0=Normal; 1=Blocked;2=Trip; 3=Alarm       |
| HR1727           | LOGIC1:Logic out 1-32           | RW     | 2      | UINT32 [0...4294967295] (Hi-16bits)       |
| HR1728           |                                 |        |        | HR1727 (Lo-16bits)                        |
| HR1729           | PGS1:PS1 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1730           | VJP1:Voltage meas selected      | R      | 1      | 0=Selection Ok; 1=Selection not available |
| HR1731           | PGS1:PS2 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1732           | PGS1:PS3 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1733           | PGS1:PS4 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1734           | PGS1:PS5 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1735           | PGS1:PS6 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1736           | PGS1:PS7 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1737           | PGS1:PS8 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1738           | PGS1:PS9 >/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1739           | PGS1:PS10 >/< condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1740           | ASC1:Curve1 Input               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1741           |                                 |        |        | HR1740 (Lo-16bits)                        |
| HR1742           | ASC1:Curve1 Output              | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1743           |                                 |        |        | HR1742 (Lo-16bits)                        |
| HR1744           | ASC1:Curve2 Input               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1745           |                                 |        |        | HR1744 (Lo-16bits)                        |
| HR1746           | ASC1:Curve2 Output              | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1747           |                                 |        |        | HR1746 (Lo-16bits)                        |
| HR1748           | ASC1:Curve3 Input               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1749           |                                 |        |        | HR1748 (Lo-16bits)                        |
| HR1750           | ASC1:Curve3 Output              | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1751           |                                 |        |        | HR1750 (Lo-16bits)                        |
| HR1752           | ASC1:Curve4 Input               | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1753           |                                 |        |        | HR1752 (Lo-16bits)                        |
| HR1754           | ASC1:Curve4 Output              | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)    |
| HR1755           |                                 |        |        | HR1754 (Lo-16bits)                        |
| HR1756           | PCS1:PCS1 Switch Status         | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1757           |                                 |        |        | HR1756 (Lo-16bits)                        |
| HR1758           | PCS2:PCS2 Switch Status         | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1759           |                                 |        |        | HR1758 (Lo-16bits)                        |
| HR1760           | PCS3:PCS3 Switch Status         | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1761           |                                 |        |        | HR1760 (Lo-16bits)                        |

| Holding Register | Parameter                         | Access | Length | Info                                    |
|------------------|-----------------------------------|--------|--------|---|
| HR1762           | PCS4:PCS4 Switch Status           | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1763           |                                   |        |        | HR1762 (Lo-16bits)                      |
| HR1764           | PCS5:PCS5 Switch Status           | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1765           |                                   |        |        | HR1764 (Lo-16bits)                      |
| HR1766           | AR1:Auto-recloser [79] Mode       | RW     | 1      | 0=Disabled; 1=Activated                 |
| HR1767           | CTRL:Local/Remote status          | R      | 1      | 0=Remote; 1=Local                       |
| HR1768           | RTD1:S13 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1769           |                                   |        |        | HR1768 (Lo-16bits)                      |
| HR1770           | RTD1:S14 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1771           |                                   |        |        | HR1770 (Lo-16bits)                      |
| HR1772           | RTD1:S15 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1773           |                                   |        |        | HR1772 (Lo-16bits)                      |
| HR1774           | RTD1:S16 Measurement (Protection) | R      | 2      | FLOAT [-200...2000] (Hi-16bits)         |
| HR1775           |                                   |        |        | HR1774 (Lo-16bits)                      |
| HR1776           | RTD1:S13 ALARM1 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1777           |                                   |        |        | HR1776 (Lo-16bits)                      |
| HR1778           | RTD1:S13 ALARM2 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1779           |                                   |        |        | HR1778 (Lo-16bits)                      |
| HR1780           | RTD1:S13 MEAS INVALID             | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1781           |                                   |        |        | HR1780 (Lo-16bits)                      |
| HR1782           | RTD1:S14 ALARM1 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1783           |                                   |        |        | HR1782 (Lo-16bits)                      |
| HR1784           | RTD1:S14 ALARM2 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1785           |                                   |        |        | HR1784 (Lo-16bits)                      |
| HR1786           | RTD1:S14 MEAS INVALID             | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1787           |                                   |        |        | HR1786 (Lo-16bits)                      |
| HR1788           | RTD1:S15 ALARM1 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1789           |                                   |        |        | HR1788 (Lo-16bits)                      |
| HR1790           | RTD1:S15 ALARM2 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1791           |                                   |        |        | HR1790 (Lo-16bits)                      |
| HR1792           | RTD1:S15 MEAS INVALID             | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1793           |                                   |        |        | HR1792 (Lo-16bits)                      |
| HR1794           | RTD1:S16 ALARM1 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1795           |                                   |        |        | HR1794 (Lo-16bits)                      |
| HR1796           | RTD1:S16 ALARM2 ON                | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1797           |                                   |        |        | HR1796 (Lo-16bits)                      |

| Holding Register | Parameter                                | Access | Length | Info                                    |
|------------------|--|--------|--------|---|
| HR1798           | RTD1:S16 MEAS INVALID                    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1799           |  |        |        | HR1798 (Lo-16bits)                      |
| HR1800           | GSYN:Synchronizer mode                   | RW     | 1      | 0=Disabled; 1=Activated                 |
| HR1801           | GSYN:Magnitude difference                | R      | 2      | FLOAT [-200...200] (Hi-16bits)          |
| HR1802           |  |        |        | HR1801 (Lo-16bits)                      |
| HR1803           | GSYN:Frequency difference                | R      | 2      | FLOAT [-100...100] (Hi-16bits)          |
| HR1804           |  |        |        | HR1803 (Lo-16bits)                      |
| HR1805           | GSYN:Angle difference                    | R      | 2      | FLOAT [-360...360] (Hi-16bits)          |
| HR1806           |  |        |        | HR1805 (Lo-16bits)                      |
| HR1807           | GSYN:Magnitude difference on closing BRK | R      | 2      | FLOAT [-200...200] (Hi-16bits)          |
| HR1808           |  |        |        | HR1807 (Lo-16bits)                      |
| HR1809           | GSYN:Frequency difference on closing BRK | R      | 2      | FLOAT [-100...100] (Hi-16bits)          |
| HR1810           |  |        |        | HR1809 (Lo-16bits)                      |
| HR1811           | GSYN:Angle difference on closing BRK     | R      | 2      | FLOAT [-360...360] (Hi-16bits)          |
| HR1812           |  |        |        | HR1811 (Lo-16bits)                      |
| HR1813           | GSYN:Synchronizing time left             | R      | 2      | FLOAT [0...1800] (Hi-16bits)            |
| HR1814           |  |        |        | HR1813 (Lo-16bits)                      |
| HR1815           | GSYN:Magnitude difference fine tune      | RW     | 2      | FLOAT [-200...200] (Hi-16bits)          |
| HR1816           |  |        |        | HR1815 (Lo-16bits)                      |
| HR1817           | GSYN:Frequency difference fine tune      | RW     | 2      | FLOAT [-100...100] (Hi-16bits)          |
| HR1818           |  |        |        | HR1817 (Lo-16bits)                      |
| HR1819           | GSYN:Angle difference fine tune          | RW     | 2      | FLOAT [-360...360] (Hi-16bits)          |
| HR1820           |  |        |        | HR1819 (Lo-16bits)                      |
| HR1821           | GSYN:Start Synchronizer                  | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR1822           |  |        |        | HR1821 (Lo-16bits)                      |
| HR1823           | GSYN:Stop Synchronizer                   | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR1824           |  |        |        | HR1823 (Lo-16bits)                      |
| HR1825           | GSYN:Block and Interrupt Synchronizing   | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR1826           |  |        |        | HR1825 (Lo-16bits)                      |
| HR1827           | GSYN:Breaker Closed                      | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR1828           |  |        |        | HR1827 (Lo-16bits)                      |
| HR1829           | GSYN:GSYN Voltage Mag.Difference Ok      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1830           |  |        |        | HR1829 (Lo-16bits)                      |

| Holding Register | Parameter   | Access | Length | Info                                    |
|------------------|---|--------|--------|---|
| HR1831           | GSYN:GSYN Voltage Freq.Difference Ok                              | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1832           |   |        |        | HR1831 (Lo-16bits)                      |
| HR1833           | GSYN:GSYN Voltage Ang.Difference Ok                               | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1834           |   |        |        | HR1833 (Lo-16bits)                      |
| HR1835           | GSYN:GSYN Blocked   | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1836           |   |        |        | HR1835 (Lo-16bits)                      |
| HR1837           | GSYN:GSYN Running   | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1838           |   |        |        | HR1837 (Lo-16bits)                      |
| HR1839           | GSYN:GSYN Increase Voltage  | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1840           |   |        |        | HR1839 (Lo-16bits)                      |
| HR1841           | GSYN:GSYN Decrease Voltage  | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1842           |   |        |        | HR1841 (Lo-16bits)                      |
| HR1843           | GSYN:GSYN Increase Frequency                                      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1844           |   |        |        | HR1843 (Lo-16bits)                      |
| HR1845           | GSYN:GSYN Decrease Frequency                                      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1846           |   |        |        | HR1845 (Lo-16bits)                      |
| HR1847           | GSYN:GSYN Breaker Close Pulse                                     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1848           |   |        |        | HR1847 (Lo-16bits)                      |
| HR1849           | GSYN:GSYN Long Sync Time  | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1850           |   |        |        | HR1849 (Lo-16bits)                      |
| HR1851           | VREC:Measurement value recorder mode                              | RW     | 1      | 0=Disabled; 1=Activated                 |
| HR1852           | VREC:Scale current values to primary                              | RW     | 1      | 0=No; 1=Yes                             |
| HR1853           | VREC:Record fault types (Overcurrent & Voltage Over/Under) faults | RW     | 1      | 0=No; 1=Yes                             |
| HR1854           | VREC:Trigger register to memory                                   | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR1855           |   |        |        | HR1854 (Lo-16bits)                      |
| HR1856           | VREC:VREC Magnitude 1   | R      | 2      | FLOAT [0...1800] (Hi-16bits)            |
| HR1857           |   |        |        | HR1856 (Lo-16bits)                      |
| HR1858           | VREC:VREC Magnitude 2   | R      | 2      | FLOAT [0...1800] (Hi-16bits)            |
| HR1859           |   |        |        | HR1858 (Lo-16bits)                      |
| HR1860           | VREC:VREC Magnitude 3   | R      | 2      | FLOAT [0...1800] (Hi-16bits)            |
| HR1861           |   |        |        | HR1860 (Lo-16bits)                      |
| HR1862           | VREC:VREC Magnitude 4   | R      | 2      | FLOAT [0...1800] (Hi-16bits)            |

| Holding Register | Parameter                                 | Access | Length | Info                                     |
|------------------|---|--------|--------|--|
| HR1863           |   |        |        | HR1862 (Lo-16bits)                       |
| HR1864           | VREC:VREC Magnitude 5                     | R      | 2      | FLOAT [0...1800] (Hi-16bits)             |
| HR1865           |   |        |        | HR1864 (Lo-16bits)                       |
| HR1866           | VREC:VREC Magnitude 6                     | R      | 2      | FLOAT [0...1800] (Hi-16bits)             |
| HR1867           |   |        |        | HR1866 (Lo-16bits)                       |
| HR1868           | VREC:VREC Magnitude 7                     | R      | 2      | FLOAT [0...1800] (Hi-16bits)             |
| HR1869           |   |        |        | HR1868 (Lo-16bits)                       |
| HR1870           | VREC:VREC Magnitude 8                     | R      | 2      | FLOAT [0...1800] (Hi-16bits)             |
| HR1871           |   |        |        | HR1870 (Lo-16bits)                       |
| HR1872           | RTB:Measurement value recorder mode       | RW     | 1      | 0=Disabled; 1=Activated                  |
| HR1873           | RTB:Scale current values to primary       | RW     | 1      | 0=No; 1=Yes                              |
| HR1874           | RTB:Magnitude 1                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1875           |   |        |        | HR1874 (Lo-16bits)                       |
| HR1876           | RTB:Magnitude 2                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1877           |   |        |        | HR1876 (Lo-16bits)                       |
| HR1878           | RTB:Magnitude 3                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1879           |   |        |        | HR1878 (Lo-16bits)                       |
| HR1880           | RTB:Magnitude 4                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1881           |   |        |        | HR1880 (Lo-16bits)                       |
| HR1882           | RTB:Magnitude 5                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1883           |   |        |        | HR1882 (Lo-16bits)                       |
| HR1884           | RTB:Magnitude 6                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1885           |   |        |        | HR1884 (Lo-16bits)                       |
| HR1886           | RTB:Magnitude 7                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1887           |   |        |        | HR1886 (Lo-16bits)                       |
| HR1888           | RTB:Magnitude 8                           | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1889           |   |        |        | HR1888 (Lo-16bits)                       |
| HR1890           | AOUT:mA In Channel 1                      | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1891           |   |        |        | HR1890 (Lo-16bits)                       |
| HR1892           | AOUT:mA In Channel 2                      | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1893           |   |        |        | HR1892 (Lo-16bits)                       |
| HR1894           | AOUT:mA Out Channel 1 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1895           |   |        |        | HR1894 (Lo-16bits)                       |
| HR1896           | AOUT:mA Out Channel 1 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1897           |   |        |        | HR1896 (Lo-16bits)                       |

| Holding Register | Parameter                                 | Access | Length | Info                                     |
|------------------|---|--------|--------|--|
| HR1898           | AOUT:mA Out Channel 2 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1899           |   |        |        | HR1898 (Lo-16bits)                       |
| HR1900           | AOUT:mA Out Channel 2 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1901           |   |        |        | HR1900 (Lo-16bits)                       |
| HR1902           | AOUT:mA Out Channel 3 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1903           |   |        |        | HR1902 (Lo-16bits)                       |
| HR1904           | AOUT:mA Out Channel 3 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1905           |   |        |        | HR1904 (Lo-16bits)                       |
| HR1906           | AOUT:mA Out Channel 4 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1907           |   |        |        | HR1906 (Lo-16bits)                       |
| HR1908           | AOUT:mA Out Channel 4 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1909           |   |        |        | HR1908 (Lo-16bits)                       |
| HR1910           | AOUT:mA Out Channel 5 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1911           |   |        |        | HR1910 (Lo-16bits)                       |
| HR1912           | AOUT:mA Out Channel 5 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1913           |   |        |        | HR1912 (Lo-16bits)                       |
| HR1914           | AOUT:mA Out Channel 6 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1915           |   |        |        | HR1914 (Lo-16bits)                       |
| HR1916           | AOUT:mA Out Channel 6 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1917           |   |        |        | HR1916 (Lo-16bits)                       |
| HR1918           | AOUT:mA Out Channel 7 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1919           |   |        |        | HR1918 (Lo-16bits)                       |
| HR1920           | AOUT:mA Out Channel 7 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1921           |   |        |        | HR1920 (Lo-16bits)                       |
| HR1922           | AOUT:mA Out Channel 8 Input Magnitude now | R      | 2      | FLOAT [-10000000...10000000] (Hi-16bits) |
| HR1923           |   |        |        | HR1922 (Lo-16bits)                       |
| HR1924           | AOUT:mA Out Channel 8 Outputs now         | R      | 2      | FLOAT [0...24] (Hi-16bits)               |
| HR1925           |   |        |        | HR1924 (Lo-16bits)                       |
| HR1926           | RTDIN:S1 Resistance                       | R      | 2      | FLOAT [0...4000] (Hi-16bits)             |
| HR1927           |   |        |        | HR1926 (Lo-16bits)                       |



| Holding Register | Parameter                       | Access | Length | Info                           |
|------------------|---------------------------------|--------|--------|--------------------------------|
| HR1928           | RTDIN:S2 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1929           |                                 |        |        | HR1928 (Lo-16bits)             |
| HR1930           | RTDIN:S3 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1931           |                                 |        |        | HR1930 (Lo-16bits)             |
| HR1932           | RTDIN:S4 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1933           |                                 |        |        | HR1932 (Lo-16bits)             |
| HR1934           | RTDIN:S5 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1935           |                                 |        |        | HR1934 (Lo-16bits)             |
| HR1936           | RTDIN:S6 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1937           |                                 |        |        | HR1936 (Lo-16bits)             |
| HR1938           | RTDIN:S7 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1939           |                                 |        |        | HR1938 (Lo-16bits)             |
| HR1940           | RTDIN:S8 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1941           |                                 |        |        | HR1940 (Lo-16bits)             |
| HR1942           | RTDIN:S9 Resistance             | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1943           |                                 |        |        | HR1942 (Lo-16bits)             |
| HR1944           | RTDIN:S10 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1945           |                                 |        |        | HR1944 (Lo-16bits)             |
| HR1946           | RTDIN:S11 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1947           |                                 |        |        | HR1946 (Lo-16bits)             |
| HR1948           | RTDIN:S12 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1949           |                                 |        |        | HR1948 (Lo-16bits)             |
| HR1950           | RTDIN:S13 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1951           |                                 |        |        | HR1950 (Lo-16bits)             |
| HR1952           | RTDIN:S14 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1953           |                                 |        |        | HR1952 (Lo-16bits)             |
| HR1954           | RTDIN:S15 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1955           |                                 |        |        | HR1954 (Lo-16bits)             |
| HR1956           | RTDIN:S16 Resistance            | R      | 2      | FLOAT [0...4000] (Hi-16bits)   |
| HR1957           |                                 |        |        | HR1956 (Lo-16bits)             |
| HR1958           | GSYN:Estimated BRK Closing time | R      | 2      | FLOAT [0...360] (Hi-16bits)    |
| HR1959           |                                 |        |        | HR1958 (Lo-16bits)             |
| HR1960           | GSYN:Networks rotating time     | R      | 2      | FLOAT [0...360] (Hi-16bits)    |
| HR1961           |                                 |        |        | HR1960 (Lo-16bits)             |
| HR1962           | GSYN:Networks placement atm     | R      | 2      | FLOAT [-360...360] (Hi-16bits) |
| HR1963           |                                 |        |        | HR1962 (Lo-16bits)             |

| Holding Register | Parameter                       | Access | Length | Info  |
|------------------|---------------------------------|--------|--------|---|
| HR1964           | SYN1:Estimated BRK Closing time | R      | 2      | FLOAT [0...360] (Hi-16bits)   |
| HR1965           |                                 |        |        | HR1964 (Lo-16bits)  |
| HR1966           | SYN1:Networks rotating time     | R      | 2      | FLOAT [0...360] (Hi-16bits)   |
| HR1967           |                                 |        |        | HR1966 (Lo-16bits)  |
| HR1968           | SYN1:Networks placement atm     | R      | 2      | FLOAT [-360...360] (Hi-16bits)                                      |
| HR1969           |                                 |        |        | HR1968 (Lo-16bits)  |
| HR1970           | RTDIN:S1 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1971           |                                 |        |        | HR1970 (Lo-16bits)  |
| HR1972           | RTDIN:S2 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1973           |                                 |        |        | HR1972 (Lo-16bits)  |
| HR1974           | RTDIN:S3 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1975           |                                 |        |        | HR1974 (Lo-16bits)  |
| HR1976           | RTDIN:S4 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1977           |                                 |        |        | HR1976 (Lo-16bits)  |
| HR1978           | RTDIN:S5 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1979           |                                 |        |        | HR1978 (Lo-16bits)  |
| HR1980           | RTDIN:S6 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1981           |                                 |        |        | HR1980 (Lo-16bits)  |
| HR1982           | RTDIN:S7 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1983           |                                 |        |        | HR1982 (Lo-16bits)  |
| HR1984           | RTDIN:S8 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1985           |                                 |        |        | HR1984 (Lo-16bits)  |
| HR1986           | RTDIN:S9 Sensor                 | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1987           |                                 |        |        | HR1986 (Lo-16bits)  |
| HR1988           | RTDIN:S10 Sensor                | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1989           |                                 |        |        | HR1988 (Lo-16bits)  |
| HR1990           | RTDIN:S11 Sensor                | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1991           |                                 |        |        | HR1990 (Lo-16bits)  |
| HR1992           | RTDIN:S12 Sensor                | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits) |
| HR1993           |                                 |        |        | HR1992 (Lo-16bits)  |

| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR1994           | RTDIN:S13 Sensor                         | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits)                   |
| HR1995           |  |        |        | HR1994 (Lo-16bits)  |
| HR1996           | RTDIN:S14 Sensor                         | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits)                   |
| HR1997           |  |        |        | HR1996 (Lo-16bits)  |
| HR1998           | RTDIN:S15 Sensor                         | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits)                   |
| HR1999           |  |        |        | HR1998 (Lo-16bits)  |
| HR2000           | RTDIN:S16 Sensor                         | R      | 2      | 0=Invalid Open Circuit; 1=OK; 2=Invalid Shorted Circuit (Hi-16bits)                   |
| HR2001           |  |        |        | HR2000 (Lo-16bits)  |
| HR2002           | RHC1:Counter is now                      | R      | 1      | 0=Idle; 1=Counting  |
| HR2003           | RHC1:Running hours                       | RW     | 2      | UINT32 [0...4294967295] (Hi-16bits)   |
| HR2004           |  |        |        | HR2003 (Lo-16bits)  |
| HR2005           | NOC1: > Last fault end with              | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2006           | NOC1: > Last fault type                  | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                                |
| HR2007           | NOC1: > Last fault IA current (pri)      | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2008           |  |        |        | HR2007 (Lo-16bits)  |
| HR2009           | NOC1: > Last fault IB current (pri)      | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2010           |  |        |        | HR2009 (Lo-16bits)  |
| HR2011           | NOC1: > Last fault IC current (pri)      | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2012           |  |        |        | HR2011 (Lo-16bits)  |
| HR2013           | NOC1:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2014           |  |        |        | HR2013 (Lo-16bits)  |
| HR2015           | NOC1:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2016           | NOC1:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2017           |  |        |        | HR2016 (Lo-16bits)  |
| HR2018           | NOC1:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2019           | NOC1:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2020           | NOC1:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2021           | NOC1:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2022           | NOC1:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2023           |  |        |        | HR2022 (Lo-16bits)  |
| HR2024           | NOC1:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |

| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2025           |  |        |        | HR2024 (Lo-16bits)  |
| HR2026           | NOC1:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2027           |  |        |        | HR2026 (Lo-16bits)  |
| HR2028           | NOC1:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2029           |  |        |        | HR2028 (Lo-16bits)  |
| HR2030           | NOC1:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2031           | NOC1:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2032           | NOC2:l>> Last fault end with             | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2033           | NOC2:l>> Last fault type                 | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                                |
| HR2034           | NOC2:l>> Last fault IA current (pri)     | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2035           |  |        |        | HR2034 (Lo-16bits)  |
| HR2036           | NOC2:l>> Last fault IB current (pri)     | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2037           |  |        |        | HR2036 (Lo-16bits)  |
| HR2038           | NOC2:l>> Last fault IC current (pri)     | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2039           |  |        |        | HR2038 (Lo-16bits)  |
| HR2040           | NOC2:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2041           |  |        |        | HR2040 (Lo-16bits)  |
| HR2042           | NOC2:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2043           | NOC2:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2044           |  |        |        | HR2043 (Lo-16bits)  |
| HR2045           | NOC2:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2046           | NOC2:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2047           | NOC2:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2048           | NOC2:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2049           | NOC2:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2050           |  |        |        | HR2049 (Lo-16bits)  |
| HR2051           | NOC2:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2052           |  |        |        | HR2051 (Lo-16bits)  |
| HR2053           | NOC2:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2054           |  |        |        | HR2053 (Lo-16bits)  |
| HR2055           | NOC2:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2056           |  |        |        | HR2055 (Lo-16bits)  |

| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2057           | NOC2:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2058           | NOC2:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2059           | NOC3:l>>> Last fault end with            | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2060           | NOC3:l>>> Last fault type                | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                                |
| HR2061           | NOC3:l>>> Last fault IA current (pri)    | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2062           |  |        |        | HR2061 (Lo-16bits)  |
| HR2063           | NOC3:l>>> Last fault IB current (pri)    | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2064           |  |        |        | HR2063 (Lo-16bits)  |
| HR2065           | NOC3:l>>> Last fault IC current (pri)    | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2066           |  |        |        | HR2065 (Lo-16bits)  |
| HR2067           | NOC3:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2068           |  |        |        | HR2067 (Lo-16bits)  |
| HR2069           | NOC3:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2070           | NOC3:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2071           |  |        |        | HR2070 (Lo-16bits)  |
| HR2072           | NOC3:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2073           | NOC3:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2074           | NOC3:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2075           | NOC3:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2076           | NOC3:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2077           |  |        |        | HR2076 (Lo-16bits)  |
| HR2078           | NOC3:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2079           |  |        |        | HR2078 (Lo-16bits)  |
| HR2080           | NOC3:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2081           |  |        |        | HR2080 (Lo-16bits)  |
| HR2082           | NOC3:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2083           |  |        |        | HR2082 (Lo-16bits)  |
| HR2084           | NOC3:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2085           | NOC3:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2086           | NOC4:l>>>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |

| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2087           | NOC4: >>>> Last fault type               | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                                |
| HR2088           | NOC4: >>>> Last fault IA current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2089           |  |        |        | HR2088 (Lo-16bits)  |
| HR2090           | NOC4: >>>> Last fault IB current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2091           |  |        |        | HR2090 (Lo-16bits)  |
| HR2092           | NOC4: >>>> Last fault IC current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2093           |  |        |        | HR2092 (Lo-16bits)  |
| HR2094           | NOC4:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2095           |  |        |        | HR2094 (Lo-16bits)  |
| HR2096           | NOC4:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2097           | NOC4:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2098           |  |        |        | HR2097 (Lo-16bits)  |
| HR2099           | NOC4:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2100           | NOC4:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2101           | NOC4:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2102           | NOC4:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2103           | NOC4:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2104           |  |        |        | HR2103 (Lo-16bits)  |
| HR2105           | NOC4:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2106           |  |        |        | HR2105 (Lo-16bits)  |
| HR2107           | NOC4:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2108           |  |        |        | HR2107 (Lo-16bits)  |
| HR2109           | NOC4:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2110           |  |        |        | HR2109 (Lo-16bits)  |
| HR2111           | NOC4>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2112           | NOC4:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2113           | DOC1: dir> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2114           | DOC1: dir> Last fault type               | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                                |
| HR2115           | DOC1: dir> Last fault angle              | R      | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2116           |  |        |        | HR2115 (Lo-16bits)  |
| HR2117           | DOC1: dir> Last fault IA current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |

| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2118           |   |        |        | HR2117 (Lo-16bits)                                     |
| HR2119           | DOC1:Idir> Last fault IB current (pri)    | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2120           |   |        |        | HR2119 (Lo-16bits)                                     |
| HR2121           | DOC1:Idir> Last fault IC current (pri)    | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2122           |   |        |        | HR2121 (Lo-16bits)                                     |
| HR2123           | DOC2:Idir>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2124           | DOC2:Idir>> Last fault type               | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C |
| HR2125           | DOC2:Idir>> Last fault angle              | R      | 2      | FLOAT [0...250] (Hi-16bits)                            |
| HR2126           |   |        |        | HR2125 (Lo-16bits)                                     |
| HR2127           | DOC2:Idir>> Last fault IA current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2128           |   |        |        | HR2127 (Lo-16bits)                                     |
| HR2129           | DOC2:Idir>> Last fault IB current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2130           |   |        |        | HR2129 (Lo-16bits)                                     |
| HR2131           | DOC2:Idir>> Last fault IC current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2132           |   |        |        | HR2131 (Lo-16bits)                                     |
| HR2133           | DOC3:Idir>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2134           | DOC3:Idir>>> Last fault type              | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C |
| HR2135           | DOC3:Idir>>> Last fault angle             | R      | 2      | FLOAT [0...250] (Hi-16bits)                            |
| HR2136           |   |        |        | HR2135 (Lo-16bits)                                     |
| HR2137           | DOC3:Idir>>> Last fault IA current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2138           |   |        |        | HR2137 (Lo-16bits)                                     |
| HR2139           | DOC3:Idir>>> Last fault IB current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2140           |   |        |        | HR2139 (Lo-16bits)                                     |
| HR2141           | DOC3:Idir>>> Last fault IC current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |
| HR2142           |   |        |        | HR2141 (Lo-16bits)                                     |
| HR2143           | DOC4:Idir>>>> Last fault end with         | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2144           | DOC4:Idir>>>> Last fault type             | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C |
| HR2145           | DOC4:Idir>>>> Last fault angle            | R      | 2      | FLOAT [0...250] (Hi-16bits)                            |
| HR2146           |   |        |        | HR2145 (Lo-16bits)                                     |
| HR2147           | DOC4:Idir>>>> Last fault IA current (pri) | R      | 2      | FLOAT [0...1000000] (Hi-16bits)                        |

| Holding Register | Parameter                                 | Access | Length | Info  |
|------------------|---|--------|--------|---|
| HR2148           |   |        |        | HR2147 (Lo-16bits)  |
| HR2149           | DOC4:Idir>>>> Last fault IB current (pri) | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2150           |   |        |        | HR2149 (Lo-16bits)  |
| HR2151           | DOC4:Idir>>>> Last fault IC current (pri) | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2152           |   |        |        | HR2151 (Lo-16bits)  |
| HR2153           | NEF1:I0> Last fault end with              | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2154           | NEF1:I0> Last fault I0 current (pri)      | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2155           |   |        |        | HR2154 (Lo-16bits)  |
| HR2156           | NEF1:Pick-up setting Iset                 | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2157           |   |        |        | HR2156 (Lo-16bits)  |
| HR2158           | NEF1:Delay type                           | RW     | 1      | 0=DT; 1=IDMT  |
| HR2159           | NEF1:Definite (min) operating time delay  | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2160           |   |        |        | HR2159 (Lo-16bits)  |
| HR2161           | NEF1:Delay curve series                   | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2162           | NEF1:Delay characteristics IEC            | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2163           | NEF1:Delay char. ANSI/IEEE                | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2164           | NEF1:Non standard Delay char.             | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2165           | NEF1:Time dial setting k                  | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2166           |   |        |        | HR2165 (Lo-16bits)  |
| HR2167           | NEF1:IDMT Const. A                        | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2168           |   |        |        | HR2167 (Lo-16bits)  |
| HR2169           | NEF1:IDMT Const. B                        | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2170           |   |        |        | HR2169 (Lo-16bits)  |
| HR2171           | NEF1:IDMT Const. C                        | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2172           |   |        |        | HR2171 (Lo-16bits)  |
| HR2173           | NEF1>Select SG                            | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2174           | NEF1:Write settings to selected SG        | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2175           | NEF2:I0>> Last fault end with             | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2176           | NEF2:I0>> Last fault I0 current (pri)     | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2177           |   |        |        | HR2176 (Lo-16bits)  |
| HR2178           | NEF2:Pick-up setting Iset                 | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2179           |   |        |        | HR2178 (Lo-16bits)  |
| HR2180           | NEF2:Delay type                           | RW     | 1      | 0=DT; 1=IDMT  |



| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2181           | NEF2:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2182           |  |        |        | HR2181 (Lo-16bits)  |
| HR2183           | NEF2:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2184           | NEF2:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2185           | NEF2:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2186           | NEF2:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2187           | NEF2:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2188           |  |        |        | HR2187 (Lo-16bits)  |
| HR2189           | NEF2:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2190           |  |        |        | HR2189 (Lo-16bits)  |
| HR2191           | NEF2:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2192           |  |        |        | HR2191 (Lo-16bits)  |
| HR2193           | NEF2:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2194           |  |        |        | HR2193 (Lo-16bits)  |
| HR2195           | NEF2:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2196           | NEF2:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2197           | NEF3:I0>>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2198           | NEF3:I0>>> Last fault I0 current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2199           |  |        |        | HR2198 (Lo-16bits)  |
| HR2200           | NEF3:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2201           |  |        |        | HR2200 (Lo-16bits)  |
| HR2202           | NEF3:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2203           | NEF3:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2204           |  |        |        | HR2203 (Lo-16bits)  |
| HR2205           | NEF3:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2206           | NEF3:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2207           | NEF3:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2208           | NEF3:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2209           | NEF3:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2210           |  |        |        | HR2209 (Lo-16bits)  |
| HR2211           | NEF3:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2212           |  |        |        | HR2211 (Lo-16bits)  |
| HR2213           | NEF3:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |

| Holding Register | Parameter                                | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2214           |  |        |        | HR2213 (Lo-16bits)  |
| HR2215           | NEF3:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2216           |  |        |        | HR2215 (Lo-16bits)  |
| HR2217           | NEF3:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2218           | NEF3:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2219           | NEF4:I0>>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2220           | NEF4:I0>>>> Last fault I0 current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2221           |  |        |        | HR2220 (Lo-16bits)  |
| HR2222           | NEF4:Pick-up setting Iset                | RW     | 2      | FLOAT [0.1...50] (Hi-16bits)  |
| HR2223           |  |        |        | HR2222 (Lo-16bits)  |
| HR2224           | NEF4:Delay type                          | RW     | 1      | 0=DT; 1=IDMT  |
| HR2225           | NEF4:Definite (min) operating time delay | RW     | 2      | FLOAT [0...1800] (Hi-16bits)  |
| HR2226           |  |        |        | HR2225 (Lo-16bits)  |
| HR2227           | NEF4:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard   |
| HR2228           | NEF4:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param  |
| HR2229           | NEF4:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LTI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2230           | NEF4:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type  |
| HR2231           | NEF4:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25] (Hi-16bits)   |
| HR2232           |  |        |        | HR2231 (Lo-16bits)  |
| HR2233           | NEF4:IDMT Const. A                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2234           |  |        |        | HR2233 (Lo-16bits)  |
| HR2235           | NEF4:IDMT Const. B                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2236           |  |        |        | HR2235 (Lo-16bits)  |
| HR2237           | NEF4:IDMT Const. C                       | RW     | 2      | FLOAT [0...250] (Hi-16bits)   |
| HR2238           |  |        |        | HR2237 (Lo-16bits)  |
| HR2239           | NEF4:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG              |
| HR2240           | NEF4:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)  |
| HR2241           | DEF1:I0dir> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2242           | DEF1:I0dir> Last fault angle             | R      | 2      | FLOAT [-360...360] (Hi-16bits)  |
| HR2243           |  |        |        | HR2242 (Lo-16bits)  |
| HR2244           | DEF1:I0dir> Last fault I0 current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)   |
| HR2245           |  |        |        | HR2244 (Lo-16bits)  |

| Holding Register | Parameter                                  | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2246           | DEF1:I0dir> Last fault U0(%)               | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2247           |  |        |        | HR2246 (Lo-16bits)   |
| HR2248           | DEF2:I0dir>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2249           | DEF2:I0dir>> Last fault angle              | R      | 2      | FLOAT [-360...360] (Hi-16bits)   |
| HR2250           |  |        |        | HR2249 (Lo-16bits)   |
| HR2251           | DEF2:I0dir>> Last fault I0 current (pri)   | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2252           |  |        |        | HR2251 (Lo-16bits)   |
| HR2253           | DEF2:I0dir>> Last fault U0(%)              | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2254           |  |        |        | HR2253 (Lo-16bits)   |
| HR2255           | DEF3:I0dir>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2256           | DEF3:I0dir>>> Last fault angle             | R      | 2      | FLOAT [-360...360] (Hi-16bits)   |
| HR2257           |  |        |        | HR2256 (Lo-16bits)   |
| HR2258           | DEF3:I0dir>>> Last fault I0 current (pri)  | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2259           |  |        |        | HR2258 (Lo-16bits)   |
| HR2260           | DEF3:I0dir>>> Last fault U0(%)             | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2261           |  |        |        | HR2260 (Lo-16bits)   |
| HR2262           | DEF4:I0dir>>>> Last fault end with         | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2263           | DEF4:I0dir>>>> Last fault angle            | R      | 2      | FLOAT [-360...360] (Hi-16bits)   |
| HR2264           |  |        |        | HR2263 (Lo-16bits)   |
| HR2265           | DEF4:I0dir>>>> Last fault I0 current (pri) | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2266           |  |        |        | HR2265 (Lo-16bits)   |
| HR2267           | DEF4:I0dir>>>> Last fault U0(%)            | R      | 2      | FLOAT [0...1000000] (Hi-16bits)  |
| HR2268           |  |        |        | HR2267 (Lo-16bits)   |
| HR2269           | UCP1:IUC> condition                        | R      | 1      | 0=Normal; 1=Blocked; 2=Start On (Alarm); 3=Start On (Alarm & Trip); 4=Start On (Trip); 5=Alarm On; 6=Start On; 7=Start On, Alarm On; 8=Trip On; 9=Alarm On, Trip On; 10=Multistatus On |
| HR2270           | NOC1:I> Phases condition                   | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A; 5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA; 10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA; 14=Trip ABC             |
| HR2271           | NOC2:I>> Phases condition                  | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A; 5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA; 10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA; 14=Trip ABC             |
| HR2272           | NOC3:I>>> Phases condition                 | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A; 5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA; 10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA; 14=Trip ABC             |

| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2273           | NOC4:l>>>> Phases condition               | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A; 5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA; 10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA; 14=Trip ABC |
| HR2274           | MEAS2:MEAS2 IL ang. Ref                   | R      | 2      | FLOAT [-360...360] (Hi-16bits)   |
| HR2275           |   |        |        | HR2274 (Lo-16bits)   |
| HR2276           | IMERX:IL1 Resistive Current Pri.          | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2277           |   |        |        | HR2276 (Lo-16bits)   |
| HR2278           | IMERX:IL1 Reactive Current Pri.           | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2279           |   |        |        | HR2278 (Lo-16bits)   |
| HR2280           | IMERX:IL2 Resistive Current Pri.          | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2281           |   |        |        | HR2280 (Lo-16bits)   |
| HR2282           | IMERX:IL2 Reactive Current Pri.           | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2283           |   |        |        | HR2282 (Lo-16bits)   |
| HR2284           | IMERX:IL3 Resistive Current Pri.          | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2285           |   |        |        | HR2284 (Lo-16bits)   |
| HR2286           | IMERX:IL3 Reactive Current Pri.           | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2287           |   |        |        | HR2286 (Lo-16bits)   |
| HR2288           | IMERX:Pos.seq. Resistive Current Pri.     | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2289           |   |        |        | HR2288 (Lo-16bits)   |
| HR2290           | IMERX:Pos.Seq. Reactive Current Pri.      | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2291           |   |        |        | HR2290 (Lo-16bits)   |
| HR2292           | IMERX:I01 Residual Resistive Current Pri. | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2293           |   |        |        | HR2292 (Lo-16bits)   |
| HR2294           | IMERX:I01 Residual Reactive Current Pri.  | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2295           |   |        |        | HR2294 (Lo-16bits)   |
| HR2296           | IMERX:I02 Residual Resistive Current Pri. | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2297           |   |        |        | HR2296 (Lo-16bits)   |
| HR2298           | IMERX:I02 Residual Reactive Current Pri.  | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2299           |   |        |        | HR2298 (Lo-16bits)   |
| HR2300           | IMERX:I01 Residual Resistive Current Sec. | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)   |
| HR2301           |   |        |        | HR2300 (Lo-16bits)   |

| Holding Register | Parameter   | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2302           | IMERX:I01 Residual Reactive Current Sec.          | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)                         |
| HR2303           |   |        |        | HR2302 (Lo-16bits)   |
| HR2304           | IMERX:I02 Residual Resistive Current Sec.         | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)                         |
| HR2305           |   |        |        | HR2304 (Lo-16bits)   |
| HR2306           | IMERX:I02 Residual Reactive Current Sec.          | R      | 2      | FLOAT [-100000...100000] (Hi-16bits)                         |
| HR2307           |   |        |        | HR2306 (Lo-16bits)   |
| HR2308           | POW1:3PH PF                                       | R      | 2      | FLOAT [-1000000...1000000] (Hi-16bits)                       |
| HR2309           |   |        |        | HR2308 (Lo-16bits)   |
| HR2310           | FREQS:f atm. Display (when not measurable is 0Hz) | R      | 2      | FLOAT [0...75] (Hi-16bits)                                   |
| HR2311           |   |        |        | HR2310 (Lo-16bits)   |
| HR2312           | ROC1:Idrw> condition                              | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2313           | ROC1:Idrw> Current direction                      | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2314           | ROC2:Idrw>> condition                             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2315           | ROC2:Idrw>> Current direction                     | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2316           | ROC3:Idrw>>> condition                            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2317           | ROC3:Idrw>>> Current direction                    | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2318           | ROC4:Idrw>>>> condition                           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2319           | ROC4:Idrw>>>> Current direction                   | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2320           | ROC5:Idrw>>>>> condition                          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2321           | ROC5:Idrw>>>>> Current direction                  | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2322           | ROC6:Idrw>>>>>> condition                         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2323           | ROC6:Idrw>>>>>> Current direction                 | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2324           | ROC7:Idrw>>>>>>> condition                        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2325           | ROC7:Idrw>>>>>>> Current direction                | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2326           | ROC8:Idrw>>>>>>>> condition                       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2327           | ROC8:Idrw>>>>>>>> Current direction               | R      | 1      | 0=Undefined; 1=Forward; 2=Reverse                            |
| HR2328           | ROV1:Urw>/< condition                             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2329           | ROV2:Urw>>/<< condition                           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2330           | ROV3:Urw>>>/<<< condition                         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2331           | ROV4:Urw>>>>/<<<< condition                       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                         |
| HR2332           | TOLM1:TM> Setting alarm                           | R      | 1      | 0=SF setting ok; 1=Service factor set fault. Override to 1.0 |

| Holding Register | Parameter                      | Access | Length | Info  |
|------------------|--------------------------------|--------|--------|---|
| HR2333           | TOLM1:TM> Setting alarm        | R      | 1      | 0=Ambient t setting ok; 1=Ambient t set fault. Override to 1.0          |
| HR2334           | TOLM1:TM> Setting alarm        | R      | 1      | 0=Nominal current calc ok; 1=Nominal current set fault. Override to 1.0 |
| HR2335           | TOLM1:TM> Setting alarm        | R      | 1      | 0=Ambient setting ok; 1=Inconsistent setting of ambient k               |
| HR2336           | PWR1:PQS>/< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                    |
| HR2337           | PWR2:PQS>>/<< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                    |
| HR2338           | PWR3:PQS>>>/<<< condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                    |
| HR2339           | PWR4:PQS>>>>/<<<< condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                    |
| HR2340           | RTDIN:S1 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2341           |                                |        |        | HR2340 (Lo-16bits)  |
| HR2342           | RTDIN:S2 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2343           |                                |        |        | HR2342 (Lo-16bits)  |
| HR2344           | RTDIN:S3 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2345           |                                |        |        | HR2344 (Lo-16bits)  |
| HR2346           | RTDIN:S4 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2347           |                                |        |        | HR2346 (Lo-16bits)  |
| HR2348           | RTDIN:S5 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2349           |                                |        |        | HR2348 (Lo-16bits)  |
| HR2350           | RTDIN:S6 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2351           |                                |        |        | HR2350 (Lo-16bits)  |
| HR2352           | RTDIN:S7 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2353           |                                |        |        | HR2352 (Lo-16bits)  |
| HR2354           | RTDIN:S8 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2355           |                                |        |        | HR2354 (Lo-16bits)  |
| HR2356           | RTDIN:S9 Filtered measurement  | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2357           |                                |        |        | HR2356 (Lo-16bits)  |
| HR2358           | RTDIN:S10 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2359           |                                |        |        | HR2358 (Lo-16bits)  |
| HR2360           | RTDIN:S11 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |
| HR2361           |                                |        |        | HR2360 (Lo-16bits)  |
| HR2362           | RTDIN:S12 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits)   |

| Holding Register | Parameter                      | Access | Length | Info                            |
|------------------|--------------------------------|--------|--------|---------------------------------|
| HR2363           |                                |        |        | HR2362 (Lo-16bits)              |
| HR2364           | RTDIN:S13 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR2365           |                                |        |        | HR2364 (Lo-16bits)              |
| HR2366           | RTDIN:S14 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR2367           |                                |        |        | HR2366 (Lo-16bits)              |
| HR2368           | RTDIN:S15 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR2369           |                                |        |        | HR2368 (Lo-16bits)              |
| HR2370           | RTDIN:S16 Filtered measurement | R      | 2      | FLOAT [-200...2000] (Hi-16bits) |
| HR2371           |                                |        |        | HR2370 (Lo-16bits)              |
| HR2372           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2373           |                                |        |        | HR2372 (Lo-16bits)              |
| HR2374           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2375           |                                |        |        | HR2374 (Lo-16bits)              |
| HR2376           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2377           |                                |        |        | HR2376 (Lo-16bits)              |
| HR2378           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2379           |                                |        |        | HR2378 (Lo-16bits)              |
| HR2380           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2381           |                                |        |        | HR2380 (Lo-16bits)              |
| HR2382           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2383           |                                |        |        | HR2382 (Lo-16bits)              |
| HR2384           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2385           |                                |        |        | HR2384 (Lo-16bits)              |
| HR2386           | VRG1:Target Voltage (UTGT)     | RW     | 2      | FLOAT [70...140] (Hi-16bits)    |
| HR2387           |                                |        |        | HR2386 (Lo-16bits)              |
| HR2388           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |
| HR2389           |                                |        |        | HR2388 (Lo-16bits)              |
| HR2390           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |
| HR2391           |                                |        |        | HR2390 (Lo-16bits)              |
| HR2392           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |
| HR2393           |                                |        |        | HR2392 (Lo-16bits)              |
| HR2394           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |
| HR2395           |                                |        |        | HR2394 (Lo-16bits)              |
| HR2396           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |
| HR2397           |                                |        |        | HR2396 (Lo-16bits)              |
| HR2398           | VRG1:U> setting (+UTGT)        | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)    |

| Holding Register | Parameter                | Access | Length | Info                         |
|------------------|--------------------------|--------|--------|------------------------------|
| HR2399           |                          |        |        | HR2398 (Lo-16bits)           |
| HR2400           | VRG1:U> setting (+UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2401           |                          |        |        | HR2400 (Lo-16bits)           |
| HR2402           | VRG1:U> setting (+UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2403           |                          |        |        | HR2402 (Lo-16bits)           |
| HR2404           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2405           |                          |        |        | HR2404 (Lo-16bits)           |
| HR2406           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2407           |                          |        |        | HR2406 (Lo-16bits)           |
| HR2408           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2409           |                          |        |        | HR2408 (Lo-16bits)           |
| HR2410           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2411           |                          |        |        | HR2410 (Lo-16bits)           |
| HR2412           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2413           |                          |        |        | HR2412 (Lo-16bits)           |
| HR2414           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2415           |                          |        |        | HR2414 (Lo-16bits)           |
| HR2416           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2417           |                          |        |        | HR2416 (Lo-16bits)           |
| HR2418           | VRG1:U< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2419           |                          |        |        | HR2418 (Lo-16bits)           |
| HR2420           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2421           |                          |        |        | HR2420 (Lo-16bits)           |
| HR2422           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2423           |                          |        |        | HR2422 (Lo-16bits)           |
| HR2424           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2425           |                          |        |        | HR2424 (Lo-16bits)           |
| HR2426           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2427           |                          |        |        | HR2426 (Lo-16bits)           |
| HR2428           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2429           |                          |        |        | HR2428 (Lo-16bits)           |
| HR2430           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2431           |                          |        |        | HR2430 (Lo-16bits)           |
| HR2432           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2433           |                          |        |        | HR2432 (Lo-16bits)           |
| HR2434           | VRG1:U>> setting (+UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |
| HR2435           |                          |        |        | HR2434 (Lo-16bits)           |
| HR2436           | VRG1:U<< setting (-UTGT) | RW     | 2      | FLOAT [0.1...30] (Hi-16bits) |



| Holding Register | Parameter                 | Access | Length | Info  |
|------------------|---------------------------|--------|--------|---|
| HR2437           |                           |        |        | HR2436 (Lo-16bits)  |
| HR2438           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2439           |                           |        |        | HR2438 (Lo-16bits)  |
| HR2440           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2441           |                           |        |        | HR2440 (Lo-16bits)  |
| HR2442           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2443           |                           |        |        | HR2442 (Lo-16bits)  |
| HR2444           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2445           |                           |        |        | HR2444 (Lo-16bits)  |
| HR2446           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2447           |                           |        |        | HR2446 (Lo-16bits)  |
| HR2448           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2449           |                           |        |        | HR2448 (Lo-16bits)  |
| HR2450           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.1...30] (Hi-16bits)  |
| HR2451           |                           |        |        | HR2450 (Lo-16bits)  |
| HR2452           | TOLT1:TT> Setting alarm   | R      | 1      | 0=SF setting ok; 1=Service factor set fault. Override to 1.0  |
| HR2453           | TOLT1:TT> Setting alarm   | R      | 1      | 0=Ambient t setting ok; 1=Ambient t set fault. Override to 1.0  |
| HR2454           | TOLT1:TT> Setting alarm   | R      | 1      | 0=Nominal current calc ok; 1=Nominal current set fault. Override to 1.0                                     |
| HR2455           | TOLT1:TT> Setting alarm   | R      | 1      | 0=Ambient setting ok; 1=Inconsistent setting of ambient k   |
| HR2456           | TOLF1:TF> Setting alarm   | R      | 1      | 0=SF setting ok; 1=Service factor set fault. Override to 1.0  |
| HR2457           | TOLF1:TF> Setting alarm   | R      | 1      | 0=Ambient t setting ok; 1=Ambient t set fault. Override to 1.0  |
| HR2458           | TOLF1:TF> Setting alarm   | R      | 1      | 0=Nominal current calc ok; 1=Nominal current set fault. Override to 1.0                                     |
| HR2459           | TOLF1:TF> Setting alarm   | R      | 1      | 0=Ambient setting ok; 1=Inconsistent setting of ambient k   |
| HR9906           | Object6 control register  | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9907           | Object7 control register  | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9908           | Object8 control register  | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9909           | Object9 control register  | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9910           | Object10 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |

## 2. AQ-25x frame Modbus map

The following table lists Modbus holding registers for AQ-25x frame units with firmware v2.5.6.1-48. For AQ-21x frame Modbus map refer to chapter *AQ-21x frame Modbus map*.

**NOTE!**



Best way to always get the latest Modbus map is to load the aqs configuration file from the unit and in the AQtivate setting tool go to *Tools* → *Communication* → *Modbus map*.

Table. 2. - 2. AQ-25x frame Modbus map

| Holding Register | Parameter                | Access | Length | Info  |
|------------------|--------------------------|--------|--------|---|
| HR1              | Modbus requests          | R/W=0  | 1      | Diagnostic request counter  |
| HR2              | Modbus quality           | R      | 1      | Diagnostic quality  |
| HR3              | Modbus errors            | R/W=0  | 1      | Diagnostic error counter  |
| HR4              | Modbus Ctrl OK           | R/W=0  | 1      | Diagnostic Control OK counter   |
| HR5              | Modbus Ctrl Errors       | R/W=0  | 1      | Diagnostic Control Error counter  |
| HR6              | Object1 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR7              | Object2 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR8              | Object3 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9              | Object4 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR10             | Object5 control register | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR11             | Previous Event register  | R      | 6      | Event code  |
| HR12             | Previous Event register  | R      | 6      | Event timestamp (ms)  |
| HR13             | Previous Event register  | R      | 6      | Event timestamp (sec Hi-16bits)   |
| HR14             | Previous Event register  | R      | 6      | Event timestamp (sec Lo-16bits)   |
| HR15             | Previous Event register  | R      | 6      | Event sequential index  |
| HR16             | Previous Event register  | R      | 6      | RESERVED  |
| HR17             | Event register           | R      | 6      | Event code  |
| HR18             | Event register           | R      | 6      | Event timestamp (ms)  |
| HR19             | Event register           | R      | 6      | Event timestamp (sec Hi-16bits)   |
| HR20             | Event register           | R      | 6      | Event timestamp (sec Lo-16bits)   |
| HR21             | Event register           | R      | 6      | Event sequential index  |
| HR22             | Event register           | R      | 6      | RESERVED  |
| HR23             | System time              | RW     | 3      | System time (ms)  |

| Holding Register | Parameter                   | Access | Length | Info                                 |
|------------------|-----------------------------|--------|--------|--------------------------------------|
| HR24             | System time                 | RW     | 3      | System time (sec Hi-16bits)          |
| HR25             | System time                 | RW     | 3      | System time (sec Lo-16bits)          |
| HR26             | MEAS1:Pri.Pha.curr.IL1      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR27             |                             |        |        | HR26 (Lo-16bits)                     |
| HR28             | MEAS1:Pri.Pha.curr.IL2      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR29             |                             |        |        | HR28 (Lo-16bits)                     |
| HR30             | MEAS1:Pri.Pha.curr.IL3      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR31             |                             |        |        | HR30 (Lo-16bits)                     |
| HR32             | MEAS1:Pha.angle IL1         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR33             |                             |        |        | HR32 (Lo-16bits)                     |
| HR34             | MEAS1:Pha.angle IL2         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR35             |                             |        |        | HR34 (Lo-16bits)                     |
| HR36             | MEAS1:Pha.angle IL3         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR37             |                             |        |        | HR36 (Lo-16bits)                     |
| HR38             | MEAS1:Pri.Res.curr.I01      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR39             |                             |        |        | HR38 (Lo-16bits)                     |
| HR40             | MEAS1:Res.curr.angle I01    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR41             |                             |        |        | HR40 (Lo-16bits)                     |
| HR42             | MEAS1:Pri.Res.curr.I02      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR43             |                             |        |        | HR42 (Lo-16bits)                     |
| HR44             | MEAS1:Res.curr.angle I02    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR45             |                             |        |        | HR44 (Lo-16bits)                     |
| HR46             | MEAS1:Pri.calc.I0           | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR47             |                             |        |        | HR46 (Lo-16bits)                     |
| HR48             | MEAS1:calc.I0 Pha.angle     | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR49             |                             |        |        | HR48 (Lo-16bits)                     |
| HR50             | MEAS1:Pha.curr.IL1 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR51             |                             |        |        | HR50 (Lo-16bits)                     |
| HR52             | MEAS1:Pha.curr.IL2 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR53             |                             |        |        | HR52 (Lo-16bits)                     |
| HR54             | MEAS1:Pha.curr.IL3 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR55             |                             |        |        | HR54 (Lo-16bits)                     |
| HR56             | MEAS1:Pri.Pos.seq.curr.     | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR57             |                             |        |        | HR56 (Lo-16bits)                     |
| HR58             | MEAS1:Pri.Neg.seq.curr.     | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR59             |                             |        |        | HR58 (Lo-16bits)                     |
| HR60             | MEAS1:Pri.Zero seq.curr.    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR61             |                             |        |        | HR60 (Lo-16bits)                     |

| Holding Register | Parameter                   | Access | Length | Info                                 |
|------------------|-----------------------------|--------|--------|--------------------------------------|
| HR62             | MEAS1:Pos.seq.curr.angle    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR63             |                             |        |        | HR62 (Lo-16bits)                     |
| HR64             | MEAS1:Neg.seq.curr.angle    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR65             |                             |        |        | HR64 (Lo-16bits)                     |
| HR66             | MEAS1:Zero seq.curr.angle   | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR67             |                             |        |        | HR66 (Lo-16bits)                     |
| HR68             | MEAS1:Res.curr.I01 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR69             |                             |        |        | HR68 (Lo-16bits)                     |
| HR70             | MEAS1:Res.curr.I02 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR71             |                             |        |        | HR70 (Lo-16bits)                     |
| HR72             | MEAS1:Pha.L1 ampl. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR73             |                             |        |        | HR72 (Lo-16bits)                     |
| HR74             | MEAS1:Pha.L1 pow. THD       | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR75             |                             |        |        | HR74 (Lo-16bits)                     |
| HR76             | MEAS1:Pha.L2 ampl. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR77             |                             |        |        | HR76 (Lo-16bits)                     |
| HR78             | MEAS1:Pha.L2 pow. THD       | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR79             |                             |        |        | HR78 (Lo-16bits)                     |
| HR80             | MEAS1:Pha.L3 ampl. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR81             |                             |        |        | HR80 (Lo-16bits)                     |
| HR82             | MEAS1:Pha.L3 pow. THD       | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR83             |                             |        |        | HR82 (Lo-16bits)                     |
| HR84             | MEAS1:Res.I01 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR85             |                             |        |        | HR84 (Lo-16bits)                     |
| HR86             | MEAS1:Res.I01 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR87             |                             |        |        | HR86 (Lo-16bits)                     |
| HR88             | MEAS1:Res.I02 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR89             |                             |        |        | HR88 (Lo-16bits)                     |
| HR90             | MEAS1:Res.I02 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR91             |                             |        |        | HR90 (Lo-16bits)                     |
| HR92             | MEAS1:P-P curr.IL1          | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR93             |                             |        |        | HR92 (Lo-16bits)                     |
| HR94             | MEAS1:P-P curr.IL2          | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR95             |                             |        |        | HR94 (Lo-16bits)                     |
| HR96             | MEAS1:P-P curr.IL3          | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR97             |                             |        |        | HR96 (Lo-16bits)                     |
| HR98             | MEAS1:P-P curr.I01          | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR99             |                             |        |        | HR98 (Lo-16bits)                     |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR100            | MEAS1:P-P curr.I02 | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR101            |                    |        |        | HR100 (Lo-16bits)                    |
| HR102            | MEAS1:IL1 Fund     | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR103            |                    |        |        | HR102 (Lo-16bits)                    |
| HR104            | MEAS1:IL1 2.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR105            |                    |        |        | HR104 (Lo-16bits)                    |
| HR106            | MEAS1:IL1 3.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR107            |                    |        |        | HR106 (Lo-16bits)                    |
| HR108            | MEAS1:IL1 4.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR109            |                    |        |        | HR108 (Lo-16bits)                    |
| HR110            | MEAS1:IL1 5.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR111            |                    |        |        | HR110 (Lo-16bits)                    |
| HR112            | MEAS1:IL1 6.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR113            |                    |        |        | HR112 (Lo-16bits)                    |
| HR114            | MEAS1:IL1 7.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR115            |                    |        |        | HR114 (Lo-16bits)                    |
| HR116            | MEAS1:IL1 8.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR117            |                    |        |        | HR116 (Lo-16bits)                    |
| HR118            | MEAS1:IL1 9.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR119            |                    |        |        | HR118 (Lo-16bits)                    |
| HR120            | MEAS1:IL1 10.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR121            |                    |        |        | HR120 (Lo-16bits)                    |
| HR122            | MEAS1:IL1 11.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR123            |                    |        |        | HR122 (Lo-16bits)                    |
| HR124            | MEAS1:IL1 12.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR125            |                    |        |        | HR124 (Lo-16bits)                    |
| HR126            | MEAS1:IL1 13.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR127            |                    |        |        | HR126 (Lo-16bits)                    |
| HR128            | MEAS1:IL1 14.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR129            |                    |        |        | HR128 (Lo-16bits)                    |
| HR130            | MEAS1:IL1 15.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR131            |                    |        |        | HR130 (Lo-16bits)                    |
| HR132            | MEAS1:IL1 16.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR133            |                    |        |        | HR132 (Lo-16bits)                    |
| HR134            | MEAS1:IL1 17.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR135            |                    |        |        | HR134 (Lo-16bits)                    |
| HR136            | MEAS1:IL1 18.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR137            |                    |        |        | HR136 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR138            | MEAS1:IL1 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR139            |                   |        |        | HR138 (Lo-16bits)                    |
| HR140            | MEAS1:IL1 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR141            |                   |        |        | HR140 (Lo-16bits)                    |
| HR142            | MEAS1:IL1 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR143            |                   |        |        | HR142 (Lo-16bits)                    |
| HR144            | MEAS1:IL1 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR145            |                   |        |        | HR144 (Lo-16bits)                    |
| HR146            | MEAS1:IL1 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR147            |                   |        |        | HR146 (Lo-16bits)                    |
| HR148            | MEAS1:IL1 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR149            |                   |        |        | HR148 (Lo-16bits)                    |
| HR150            | MEAS1:IL1 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR151            |                   |        |        | HR150 (Lo-16bits)                    |
| HR152            | MEAS1:IL1 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR153            |                   |        |        | HR152 (Lo-16bits)                    |
| HR154            | MEAS1:IL1 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR155            |                   |        |        | HR154 (Lo-16bits)                    |
| HR156            | MEAS1:IL1 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR157            |                   |        |        | HR156 (Lo-16bits)                    |
| HR158            | MEAS1:IL1 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR159            |                   |        |        | HR158 (Lo-16bits)                    |
| HR160            | MEAS1:IL1 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR161            |                   |        |        | HR160 (Lo-16bits)                    |
| HR162            | MEAS1:IL1 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR163            |                   |        |        | HR162 (Lo-16bits)                    |
| HR164            | MEAS1:IL2 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR165            |                   |        |        | HR164 (Lo-16bits)                    |
| HR166            | MEAS1:IL2 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR167            |                   |        |        | HR166 (Lo-16bits)                    |
| HR168            | MEAS1:IL2 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR169            |                   |        |        | HR168 (Lo-16bits)                    |
| HR170            | MEAS1:IL2 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR171            |                   |        |        | HR170 (Lo-16bits)                    |
| HR172            | MEAS1:IL2 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR173            |                   |        |        | HR172 (Lo-16bits)                    |
| HR174            | MEAS1:IL2 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR175            |                   |        |        | HR174 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR176            | MEAS1:IL2 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR177            |                   |        |        | HR176 (Lo-16bits)                    |
| HR178            | MEAS1:IL2 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR179            |                   |        |        | HR178 (Lo-16bits)                    |
| HR180            | MEAS1:IL2 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR181            |                   |        |        | HR180 (Lo-16bits)                    |
| HR182            | MEAS1:IL2 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR183            |                   |        |        | HR182 (Lo-16bits)                    |
| HR184            | MEAS1:IL2 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR185            |                   |        |        | HR184 (Lo-16bits)                    |
| HR186            | MEAS1:IL2 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR187            |                   |        |        | HR186 (Lo-16bits)                    |
| HR188            | MEAS1:IL2 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR189            |                   |        |        | HR188 (Lo-16bits)                    |
| HR190            | MEAS1:IL2 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR191            |                   |        |        | HR190 (Lo-16bits)                    |
| HR192            | MEAS1:IL2 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR193            |                   |        |        | HR192 (Lo-16bits)                    |
| HR194            | MEAS1:IL2 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR195            |                   |        |        | HR194 (Lo-16bits)                    |
| HR196            | MEAS1:IL2 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR197            |                   |        |        | HR196 (Lo-16bits)                    |
| HR198            | MEAS1:IL2 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR199            |                   |        |        | HR198 (Lo-16bits)                    |
| HR200            | MEAS1:IL2 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR201            |                   |        |        | HR200 (Lo-16bits)                    |
| HR202            | MEAS1:IL2 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR203            |                   |        |        | HR202 (Lo-16bits)                    |
| HR204            | MEAS1:IL2 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR205            |                   |        |        | HR204 (Lo-16bits)                    |
| HR206            | MEAS1:IL2 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR207            |                   |        |        | HR206 (Lo-16bits)                    |
| HR208            | MEAS1:IL2 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR209            |                   |        |        | HR208 (Lo-16bits)                    |
| HR210            | MEAS1:IL2 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR211            |                   |        |        | HR210 (Lo-16bits)                    |
| HR212            | MEAS1:IL2 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR213            |                   |        |        | HR212 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR214            | MEAS1:IL2 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR215            |                   |        |        | HR214 (Lo-16bits)                    |
| HR216            | MEAS1:IL2 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR217            |                   |        |        | HR216 (Lo-16bits)                    |
| HR218            | MEAS1:IL2 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR219            |                   |        |        | HR218 (Lo-16bits)                    |
| HR220            | MEAS1:IL2 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR221            |                   |        |        | HR220 (Lo-16bits)                    |
| HR222            | MEAS1:IL2 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR223            |                   |        |        | HR222 (Lo-16bits)                    |
| HR224            | MEAS1:IL2 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR225            |                   |        |        | HR224 (Lo-16bits)                    |
| HR226            | MEAS1:IL3 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR227            |                   |        |        | HR226 (Lo-16bits)                    |
| HR228            | MEAS1:IL3 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR229            |                   |        |        | HR228 (Lo-16bits)                    |
| HR230            | MEAS1:IL3 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR231            |                   |        |        | HR230 (Lo-16bits)                    |
| HR232            | MEAS1:IL3 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR233            |                   |        |        | HR232 (Lo-16bits)                    |
| HR234            | MEAS1:IL3 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR235            |                   |        |        | HR234 (Lo-16bits)                    |
| HR236            | MEAS1:IL3 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR237            |                   |        |        | HR236 (Lo-16bits)                    |
| HR238            | MEAS1:IL3 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR239            |                   |        |        | HR238 (Lo-16bits)                    |
| HR240            | MEAS1:IL3 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR241            |                   |        |        | HR240 (Lo-16bits)                    |
| HR242            | MEAS1:IL3 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR243            |                   |        |        | HR242 (Lo-16bits)                    |
| HR244            | MEAS1:IL3 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR245            |                   |        |        | HR244 (Lo-16bits)                    |
| HR246            | MEAS1:IL3 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR247            |                   |        |        | HR246 (Lo-16bits)                    |
| HR248            | MEAS1:IL3 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR249            |                   |        |        | HR248 (Lo-16bits)                    |
| HR250            | MEAS1:IL3 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR251            |                   |        |        | HR250 (Lo-16bits)                    |



| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR252            | MEAS1:IL3 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR253            |                   |        |        | HR252 (Lo-16bits)                    |
| HR254            | MEAS1:IL3 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR255            |                   |        |        | HR254 (Lo-16bits)                    |
| HR256            | MEAS1:IL3 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR257            |                   |        |        | HR256 (Lo-16bits)                    |
| HR258            | MEAS1:IL3 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR259            |                   |        |        | HR258 (Lo-16bits)                    |
| HR260            | MEAS1:IL3 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR261            |                   |        |        | HR260 (Lo-16bits)                    |
| HR262            | MEAS1:IL3 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR263            |                   |        |        | HR262 (Lo-16bits)                    |
| HR264            | MEAS1:IL3 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR265            |                   |        |        | HR264 (Lo-16bits)                    |
| HR266            | MEAS1:IL3 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR267            |                   |        |        | HR266 (Lo-16bits)                    |
| HR268            | MEAS1:IL3 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR269            |                   |        |        | HR268 (Lo-16bits)                    |
| HR270            | MEAS1:IL3 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR271            |                   |        |        | HR270 (Lo-16bits)                    |
| HR272            | MEAS1:IL3 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR273            |                   |        |        | HR272 (Lo-16bits)                    |
| HR274            | MEAS1:IL3 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR275            |                   |        |        | HR274 (Lo-16bits)                    |
| HR276            | MEAS1:IL3 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR277            |                   |        |        | HR276 (Lo-16bits)                    |
| HR278            | MEAS1:IL3 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR279            |                   |        |        | HR278 (Lo-16bits)                    |
| HR280            | MEAS1:IL3 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR281            |                   |        |        | HR280 (Lo-16bits)                    |
| HR282            | MEAS1:IL3 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR283            |                   |        |        | HR282 (Lo-16bits)                    |
| HR284            | MEAS1:IL3 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR285            |                   |        |        | HR284 (Lo-16bits)                    |
| HR286            | MEAS1:IL3 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR287            |                   |        |        | HR286 (Lo-16bits)                    |
| HR288            | MEAS1:I01 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR289            |                   |        |        | HR288 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR290            | MEAS1:I01 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR291            |                   |        |        | HR290 (Lo-16bits)                    |
| HR292            | MEAS1:I01 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR293            |                   |        |        | HR292 (Lo-16bits)                    |
| HR294            | MEAS1:I01 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR295            |                   |        |        | HR294 (Lo-16bits)                    |
| HR296            | MEAS1:I01 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR297            |                   |        |        | HR296 (Lo-16bits)                    |
| HR298            | MEAS1:I01 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR299            |                   |        |        | HR298 (Lo-16bits)                    |
| HR300            | MEAS1:I01 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR301            |                   |        |        | HR300 (Lo-16bits)                    |
| HR302            | MEAS1:I01 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR303            |                   |        |        | HR302 (Lo-16bits)                    |
| HR304            | MEAS1:I01 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR305            |                   |        |        | HR304 (Lo-16bits)                    |
| HR306            | MEAS1:I01 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR307            |                   |        |        | HR306 (Lo-16bits)                    |
| HR308            | MEAS1:I01 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR309            |                   |        |        | HR308 (Lo-16bits)                    |
| HR310            | MEAS1:I01 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR311            |                   |        |        | HR310 (Lo-16bits)                    |
| HR312            | MEAS1:I01 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR313            |                   |        |        | HR312 (Lo-16bits)                    |
| HR314            | MEAS1:I01 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR315            |                   |        |        | HR314 (Lo-16bits)                    |
| HR316            | MEAS1:I01 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR317            |                   |        |        | HR316 (Lo-16bits)                    |
| HR318            | MEAS1:I01 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR319            |                   |        |        | HR318 (Lo-16bits)                    |
| HR320            | MEAS1:I01 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR321            |                   |        |        | HR320 (Lo-16bits)                    |
| HR322            | MEAS1:I01 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR323            |                   |        |        | HR322 (Lo-16bits)                    |
| HR324            | MEAS1:I01 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR325            |                   |        |        | HR324 (Lo-16bits)                    |
| HR326            | MEAS1:I01 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR327            |                   |        |        | HR326 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR328            | MEAS1:I01 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR329            |                   |        |        | HR328 (Lo-16bits)                    |
| HR330            | MEAS1:I01 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR331            |                   |        |        | HR330 (Lo-16bits)                    |
| HR332            | MEAS1:I01 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR333            |                   |        |        | HR332 (Lo-16bits)                    |
| HR334            | MEAS1:I01 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR335            |                   |        |        | HR334 (Lo-16bits)                    |
| HR336            | MEAS1:I01 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR337            |                   |        |        | HR336 (Lo-16bits)                    |
| HR338            | MEAS1:I01 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR339            |                   |        |        | HR338 (Lo-16bits)                    |
| HR340            | MEAS1:I01 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR341            |                   |        |        | HR340 (Lo-16bits)                    |
| HR342            | MEAS1:I01 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR343            |                   |        |        | HR342 (Lo-16bits)                    |
| HR344            | MEAS1:I01 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR345            |                   |        |        | HR344 (Lo-16bits)                    |
| HR346            | MEAS1:I01 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR347            |                   |        |        | HR346 (Lo-16bits)                    |
| HR348            | MEAS1:I01 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR349            |                   |        |        | HR348 (Lo-16bits)                    |
| HR350            | MEAS1:I02 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR351            |                   |        |        | HR350 (Lo-16bits)                    |
| HR352            | MEAS1:I02 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR353            |                   |        |        | HR352 (Lo-16bits)                    |
| HR354            | MEAS1:I02 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR355            |                   |        |        | HR354 (Lo-16bits)                    |
| HR356            | MEAS1:I02 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR357            |                   |        |        | HR356 (Lo-16bits)                    |
| HR358            | MEAS1:I02 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR359            |                   |        |        | HR358 (Lo-16bits)                    |
| HR360            | MEAS1:I02 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR361            |                   |        |        | HR360 (Lo-16bits)                    |
| HR362            | MEAS1:I02 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR363            |                   |        |        | HR362 (Lo-16bits)                    |
| HR364            | MEAS1:I02 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR365            |                   |        |        | HR364 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR366            | MEAS1:I02 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR367            |                   |        |        | HR366 (Lo-16bits)                    |
| HR368            | MEAS1:I02 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR369            |                   |        |        | HR368 (Lo-16bits)                    |
| HR370            | MEAS1:I02 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR371            |                   |        |        | HR370 (Lo-16bits)                    |
| HR372            | MEAS1:I02 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR373            |                   |        |        | HR372 (Lo-16bits)                    |
| HR374            | MEAS1:I02 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR375            |                   |        |        | HR374 (Lo-16bits)                    |
| HR376            | MEAS1:I02 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR377            |                   |        |        | HR376 (Lo-16bits)                    |
| HR378            | MEAS1:I02 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR379            |                   |        |        | HR378 (Lo-16bits)                    |
| HR380            | MEAS1:I02 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR381            |                   |        |        | HR380 (Lo-16bits)                    |
| HR382            | MEAS1:I02 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR383            |                   |        |        | HR382 (Lo-16bits)                    |
| HR384            | MEAS1:I02 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR385            |                   |        |        | HR384 (Lo-16bits)                    |
| HR386            | MEAS1:I02 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR387            |                   |        |        | HR386 (Lo-16bits)                    |
| HR388            | MEAS1:I02 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR389            |                   |        |        | HR388 (Lo-16bits)                    |
| HR390            | MEAS1:I02 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR391            |                   |        |        | HR390 (Lo-16bits)                    |
| HR392            | MEAS1:I02 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR393            |                   |        |        | HR392 (Lo-16bits)                    |
| HR394            | MEAS1:I02 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR395            |                   |        |        | HR394 (Lo-16bits)                    |
| HR396            | MEAS1:I02 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR397            |                   |        |        | HR396 (Lo-16bits)                    |
| HR398            | MEAS1:I02 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR399            |                   |        |        | HR398 (Lo-16bits)                    |
| HR400            | MEAS1:I02 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR401            |                   |        |        | HR400 (Lo-16bits)                    |
| HR402            | MEAS1:I02 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR403            |                   |        |        | HR402 (Lo-16bits)                    |

| Holding Register | Parameter                    | Access | Length | Info                                 |
|------------------|------------------------------|--------|--------|--------------------------------------|
| HR404            | MEAS1:I02 28.harm            | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR405            |                              |        |        | HR404 (Lo-16bits)                    |
| HR406            | MEAS1:I02 29.harm            | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR407            |                              |        |        | HR406 (Lo-16bits)                    |
| HR408            | MEAS1:I02 30.harm            | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR409            |                              |        |        | HR408 (Lo-16bits)                    |
| HR410            | MEAS1:I02 31.harm            | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR411            |                              |        |        | HR410 (Lo-16bits)                    |
| HR412            | MEAS2:Pri.Pha.curr.I"L1      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR413            |                              |        |        | HR412 (Lo-16bits)                    |
| HR414            | MEAS2:Pri.Pha.curr.I"L2      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR415            |                              |        |        | HR414 (Lo-16bits)                    |
| HR416            | MEAS2:Pri.Pha.curr.I"L3      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR417            |                              |        |        | HR416 (Lo-16bits)                    |
| HR418            | MEAS2:Pha.angle I"L1         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR419            |                              |        |        | HR418 (Lo-16bits)                    |
| HR420            | MEAS2:Pha.angle I"L2         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR421            |                              |        |        | HR420 (Lo-16bits)                    |
| HR422            | MEAS2:Pha.angle I"L3         | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR423            |                              |        |        | HR422 (Lo-16bits)                    |
| HR424            | MEAS2:Pri.Res.curr.I"01      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR425            |                              |        |        | HR424 (Lo-16bits)                    |
| HR426            | MEAS2:Res.curr.angle I"01    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR427            |                              |        |        | HR426 (Lo-16bits)                    |
| HR428            | MEAS2:Pri.Res.curr.I"02      | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR429            |                              |        |        | HR428 (Lo-16bits)                    |
| HR430            | MEAS2:Res.curr.angle I"02    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR431            |                              |        |        | HR430 (Lo-16bits)                    |
| HR432            | MEAS2:Pri.calc.I"0           | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR433            |                              |        |        | HR432 (Lo-16bits)                    |
| HR434            | MEAS2:calc.I"0 Pha.angle     | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR435            |                              |        |        | HR434 (Lo-16bits)                    |
| HR436            | MEAS2:Pha.curr.I"L1 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR437            |                              |        |        | HR436 (Lo-16bits)                    |
| HR438            | MEAS2:Pha.curr.I"L2 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR439            |                              |        |        | HR438 (Lo-16bits)                    |
| HR440            | MEAS2:Pha.curr.I"L3 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR441            |                              |        |        | HR440 (Lo-16bits)                    |

| Holding Register | Parameter                    | Access | Length | Info                                 |
|------------------|------------------------------|--------|--------|--------------------------------------|
| HR442            | MEAS2:I" Pri.Pos.seq.curr.   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR443            |                              |        |        | HR442 (Lo-16bits)                    |
| HR444            | MEAS2:I" Pri.Neg.seq.curr.   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR445            |                              |        |        | HR444 (Lo-16bits)                    |
| HR446            | MEAS2:I" Pri.Zero seq.curr.  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR447            |                              |        |        | HR446 (Lo-16bits)                    |
| HR448            | MEAS2:I" Pos.seq.curr.angle  | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR449            |                              |        |        | HR448 (Lo-16bits)                    |
| HR450            | MEAS2:I" Neg.seq.curr.angle  | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR451            |                              |        |        | HR450 (Lo-16bits)                    |
| HR452            | MEAS2:I" Zero seq.curr.angle | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits) |
| HR453            |                              |        |        | HR452 (Lo-16bits)                    |
| HR454            | MEAS2:Res.curr.I"01 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR455            |                              |        |        | HR454 (Lo-16bits)                    |
| HR456            | MEAS2:Res.curr.I"02 TRMS Pri | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR457            |                              |        |        | HR456 (Lo-16bits)                    |
| HR458            | MEAS2:Pha.I"L1 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR459            |                              |        |        | HR458 (Lo-16bits)                    |
| HR460            | MEAS2:Pha.I"L1 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR461            |                              |        |        | HR460 (Lo-16bits)                    |
| HR462            | MEAS2:Pha.I"L2 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR463            |                              |        |        | HR462 (Lo-16bits)                    |
| HR464            | MEAS2:Pha.I"L2 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR465            |                              |        |        | HR464 (Lo-16bits)                    |
| HR466            | MEAS2:Pha.I"L3 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR467            |                              |        |        | HR466 (Lo-16bits)                    |
| HR468            | MEAS2:Pha.I"L3 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR469            |                              |        |        | HR468 (Lo-16bits)                    |
| HR470            | MEAS2:Res.I"01 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR471            |                              |        |        | HR470 (Lo-16bits)                    |
| HR472            | MEAS2:Res.I"01 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR473            |                              |        |        | HR472 (Lo-16bits)                    |
| HR474            | MEAS2:Res.I"02 ampl. THD     | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR475            |                              |        |        | HR474 (Lo-16bits)                    |
| HR476            | MEAS2:Res.I"02 pow. THD      | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)    |
| HR477            |                              |        |        | HR476 (Lo-16bits)                    |
| HR478            | MEAS2:P-P curr.I"L1          | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR479            |                              |        |        | HR478 (Lo-16bits)                    |

| Holding Register | Parameter           | Access | Length | Info                                 |
|------------------|---------------------|--------|--------|--------------------------------------|
| HR480            | MEAS2:P-P curr.l"L2 | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR481            |                     |        |        | HR480 (Lo-16bits)                    |
| HR482            | MEAS2:P-P curr.l"L3 | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR483            |                     |        |        | HR482 (Lo-16bits)                    |
| HR484            | MEAS2:P-P curr.l"01 | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR485            |                     |        |        | HR484 (Lo-16bits)                    |
| HR486            | MEAS2:P-P curr.l"02 | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)    |
| HR487            |                     |        |        | HR486 (Lo-16bits)                    |
| HR488            | MEAS2:l"L1 Fund     | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR489            |                     |        |        | HR488 (Lo-16bits)                    |
| HR490            | MEAS2:l"L1 2.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR491            |                     |        |        | HR490 (Lo-16bits)                    |
| HR492            | MEAS2:l"L1 3.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR493            |                     |        |        | HR492 (Lo-16bits)                    |
| HR494            | MEAS2:l"L1 4.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR495            |                     |        |        | HR494 (Lo-16bits)                    |
| HR496            | MEAS2:l"L1 5.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR497            |                     |        |        | HR496 (Lo-16bits)                    |
| HR498            | MEAS2:l"L1 6.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR499            |                     |        |        | HR498 (Lo-16bits)                    |
| HR500            | MEAS2:l"L1 7.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR501            |                     |        |        | HR500 (Lo-16bits)                    |
| HR502            | MEAS2:l"L1 8.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR503            |                     |        |        | HR502 (Lo-16bits)                    |
| HR504            | MEAS2:l"L1 9.harm   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR505            |                     |        |        | HR504 (Lo-16bits)                    |
| HR506            | MEAS2:l"L1 10.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR507            |                     |        |        | HR506 (Lo-16bits)                    |
| HR508            | MEAS2:l"L1 11.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR509            |                     |        |        | HR508 (Lo-16bits)                    |
| HR510            | MEAS2:l"L1 12.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR511            |                     |        |        | HR510 (Lo-16bits)                    |
| HR512            | MEAS2:l"L1 13.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR513            |                     |        |        | HR512 (Lo-16bits)                    |
| HR514            | MEAS2:l"L1 14.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR515            |                     |        |        | HR514 (Lo-16bits)                    |
| HR516            | MEAS2:l"L1 15.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR517            |                     |        |        | HR516 (Lo-16bits)                    |

| Holding Register | Parameter         | Access | Length | Info                                 |
|------------------|-------------------|--------|--------|--------------------------------------|
| HR518            | MEAS2:"L1 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR519            |                   |        |        | HR518 (Lo-16bits)                    |
| HR520            | MEAS2:"L1 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR521            |                   |        |        | HR520 (Lo-16bits)                    |
| HR522            | MEAS2:"L1 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR523            |                   |        |        | HR522 (Lo-16bits)                    |
| HR524            | MEAS2:"L1 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR525            |                   |        |        | HR524 (Lo-16bits)                    |
| HR526            | MEAS2:"L1 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR527            |                   |        |        | HR526 (Lo-16bits)                    |
| HR528            | MEAS2:"L1 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR529            |                   |        |        | HR528 (Lo-16bits)                    |
| HR530            | MEAS2:"L1 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR531            |                   |        |        | HR530 (Lo-16bits)                    |
| HR532            | MEAS2:"L1 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR533            |                   |        |        | HR532 (Lo-16bits)                    |
| HR534            | MEAS2:"L1 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR535            |                   |        |        | HR534 (Lo-16bits)                    |
| HR536            | MEAS2:"L1 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR537            |                   |        |        | HR536 (Lo-16bits)                    |
| HR538            | MEAS2:"L1 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR539            |                   |        |        | HR538 (Lo-16bits)                    |
| HR540            | MEAS2:"L1 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR541            |                   |        |        | HR540 (Lo-16bits)                    |
| HR542            | MEAS2:"L1 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR543            |                   |        |        | HR542 (Lo-16bits)                    |
| HR544            | MEAS2:"L1 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR545            |                   |        |        | HR544 (Lo-16bits)                    |
| HR546            | MEAS2:"L1 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR547            |                   |        |        | HR546 (Lo-16bits)                    |
| HR548            | MEAS2:"L1 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR549            |                   |        |        | HR548 (Lo-16bits)                    |
| HR550            | MEAS2:"L2 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR551            |                   |        |        | HR550 (Lo-16bits)                    |
| HR552            | MEAS2:"L2 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR553            |                   |        |        | HR552 (Lo-16bits)                    |
| HR554            | MEAS2:"L2 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR555            |                   |        |        | HR554 (Lo-16bits)                    |



| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR556            | MEAS2:I"L2 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR557            |                    |        |        | HR556 (Lo-16bits)                    |
| HR558            | MEAS2:I"L2 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR559            |                    |        |        | HR558 (Lo-16bits)                    |
| HR560            | MEAS2:I"L2 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR561            |                    |        |        | HR560 (Lo-16bits)                    |
| HR562            | MEAS2:I"L2 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR563            |                    |        |        | HR562 (Lo-16bits)                    |
| HR564            | MEAS2:I"L2 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR565            |                    |        |        | HR564 (Lo-16bits)                    |
| HR566            | MEAS2:I"L2 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR567            |                    |        |        | HR566 (Lo-16bits)                    |
| HR568            | MEAS2:I"L2 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR569            |                    |        |        | HR568 (Lo-16bits)                    |
| HR570            | MEAS2:I"L2 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR571            |                    |        |        | HR570 (Lo-16bits)                    |
| HR572            | MEAS2:I"L2 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR573            |                    |        |        | HR572 (Lo-16bits)                    |
| HR574            | MEAS2:I"L2 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR575            |                    |        |        | HR574 (Lo-16bits)                    |
| HR576            | MEAS2:I"L2 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR577            |                    |        |        | HR576 (Lo-16bits)                    |
| HR578            | MEAS2:I"L2 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR579            |                    |        |        | HR578 (Lo-16bits)                    |
| HR580            | MEAS2:I"L2 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR581            |                    |        |        | HR580 (Lo-16bits)                    |
| HR582            | MEAS2:I"L2 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR583            |                    |        |        | HR582 (Lo-16bits)                    |
| HR584            | MEAS2:I"L2 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR585            |                    |        |        | HR584 (Lo-16bits)                    |
| HR586            | MEAS2:I"L2 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR587            |                    |        |        | HR586 (Lo-16bits)                    |
| HR588            | MEAS2:I"L2 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR589            |                    |        |        | HR588 (Lo-16bits)                    |
| HR590            | MEAS2:I"L2 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR591            |                    |        |        | HR590 (Lo-16bits)                    |
| HR592            | MEAS2:I"L2 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR593            |                    |        |        | HR592 (Lo-16bits)                    |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR594            | MEAS2:I"L2 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR595            |                    |        |        | HR594 (Lo-16bits)                    |
| HR596            | MEAS2:I"L2 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR597            |                    |        |        | HR596 (Lo-16bits)                    |
| HR598            | MEAS2:I"L2 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR599            |                    |        |        | HR598 (Lo-16bits)                    |
| HR600            | MEAS2:I"L2 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR601            |                    |        |        | HR600 (Lo-16bits)                    |
| HR602            | MEAS2:I"L2 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR603            |                    |        |        | HR602 (Lo-16bits)                    |
| HR604            | MEAS2:I"L2 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR605            |                    |        |        | HR604 (Lo-16bits)                    |
| HR606            | MEAS2:I"L2 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR607            |                    |        |        | HR606 (Lo-16bits)                    |
| HR608            | MEAS2:I"L2 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR609            |                    |        |        | HR608 (Lo-16bits)                    |
| HR610            | MEAS2:I"L2 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR611            |                    |        |        | HR610 (Lo-16bits)                    |
| HR612            | MEAS2:I"L3 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR613            |                    |        |        | HR612 (Lo-16bits)                    |
| HR614            | MEAS2:I"L3 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR615            |                    |        |        | HR614 (Lo-16bits)                    |
| HR616            | MEAS2:I"L3 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR617            |                    |        |        | HR616 (Lo-16bits)                    |
| HR618            | MEAS2:I"L3 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR619            |                    |        |        | HR618 (Lo-16bits)                    |
| HR620            | MEAS2:I"L3 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR621            |                    |        |        | HR620 (Lo-16bits)                    |
| HR622            | MEAS2:I"L3 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR623            |                    |        |        | HR622 (Lo-16bits)                    |
| HR624            | MEAS2:I"L3 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR625            |                    |        |        | HR624 (Lo-16bits)                    |
| HR626            | MEAS2:I"L3 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR627            |                    |        |        | HR626 (Lo-16bits)                    |
| HR628            | MEAS2:I"L3 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR629            |                    |        |        | HR628 (Lo-16bits)                    |
| HR630            | MEAS2:I"L3 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR631            |                    |        |        | HR630 (Lo-16bits)                    |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR632            | MEAS2:I"L3 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR633            |                    |        |        | HR632 (Lo-16bits)                    |
| HR634            | MEAS2:I"L3 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR635            |                    |        |        | HR634 (Lo-16bits)                    |
| HR636            | MEAS2:I"L3 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR637            |                    |        |        | HR636 (Lo-16bits)                    |
| HR638            | MEAS2:I"L3 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR639            |                    |        |        | HR638 (Lo-16bits)                    |
| HR640            | MEAS2:I"L3 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR641            |                    |        |        | HR640 (Lo-16bits)                    |
| HR642            | MEAS2:I"L3 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR643            |                    |        |        | HR642 (Lo-16bits)                    |
| HR644            | MEAS2:I"L3 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR645            |                    |        |        | HR644 (Lo-16bits)                    |
| HR646            | MEAS2:I"L3 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR647            |                    |        |        | HR646 (Lo-16bits)                    |
| HR648            | MEAS2:I"L3 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR649            |                    |        |        | HR648 (Lo-16bits)                    |
| HR650            | MEAS2:I"L3 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR651            |                    |        |        | HR650 (Lo-16bits)                    |
| HR652            | MEAS2:I"L3 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR653            |                    |        |        | HR652 (Lo-16bits)                    |
| HR654            | MEAS2:I"L3 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR655            |                    |        |        | HR654 (Lo-16bits)                    |
| HR656            | MEAS2:I"L3 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR657            |                    |        |        | HR656 (Lo-16bits)                    |
| HR658            | MEAS2:I"L3 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR659            |                    |        |        | HR658 (Lo-16bits)                    |
| HR660            | MEAS2:I"L3 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR661            |                    |        |        | HR660 (Lo-16bits)                    |
| HR662            | MEAS2:I"L3 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR663            |                    |        |        | HR662 (Lo-16bits)                    |
| HR664            | MEAS2:I"L3 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR665            |                    |        |        | HR664 (Lo-16bits)                    |
| HR666            | MEAS2:I"L3 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR667            |                    |        |        | HR666 (Lo-16bits)                    |
| HR668            | MEAS2:I"L3 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR669            |                    |        |        | HR668 (Lo-16bits)                    |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR670            | MEAS2:I"L3 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR671            |                    |        |        | HR670 (Lo-16bits)                    |
| HR672            | MEAS2:I"L3 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR673            |                    |        |        | HR672 (Lo-16bits)                    |
| HR674            | MEAS2:I"01 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR675            |                    |        |        | HR674 (Lo-16bits)                    |
| HR676            | MEAS2:I"01 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR677            |                    |        |        | HR676 (Lo-16bits)                    |
| HR678            | MEAS2:I"01 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR679            |                    |        |        | HR678 (Lo-16bits)                    |
| HR680            | MEAS2:I"01 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR681            |                    |        |        | HR680 (Lo-16bits)                    |
| HR682            | MEAS2:I"01 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR683            |                    |        |        | HR682 (Lo-16bits)                    |
| HR684            | MEAS2:I"01 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR685            |                    |        |        | HR684 (Lo-16bits)                    |
| HR686            | MEAS2:I"01 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR687            |                    |        |        | HR686 (Lo-16bits)                    |
| HR688            | MEAS2:I"01 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR689            |                    |        |        | HR688 (Lo-16bits)                    |
| HR690            | MEAS2:I"01 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR691            |                    |        |        | HR690 (Lo-16bits)                    |
| HR692            | MEAS2:I"01 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR693            |                    |        |        | HR692 (Lo-16bits)                    |
| HR694            | MEAS2:I"01 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR695            |                    |        |        | HR694 (Lo-16bits)                    |
| HR696            | MEAS2:I"01 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR697            |                    |        |        | HR696 (Lo-16bits)                    |
| HR698            | MEAS2:I"01 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR699            |                    |        |        | HR698 (Lo-16bits)                    |
| HR700            | MEAS2:I"01 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR701            |                    |        |        | HR700 (Lo-16bits)                    |
| HR702            | MEAS2:I"01 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR703            |                    |        |        | HR702 (Lo-16bits)                    |
| HR704            | MEAS2:I"01 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR705            |                    |        |        | HR704 (Lo-16bits)                    |
| HR706            | MEAS2:I"01 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR707            |                    |        |        | HR706 (Lo-16bits)                    |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR708            | MEAS2:I"01 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR709            |                    |        |        | HR708 (Lo-16bits)                    |
| HR710            | MEAS2:I"01 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR711            |                    |        |        | HR710 (Lo-16bits)                    |
| HR712            | MEAS2:I"01 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR713            |                    |        |        | HR712 (Lo-16bits)                    |
| HR714            | MEAS2:I"01 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR715            |                    |        |        | HR714 (Lo-16bits)                    |
| HR716            | MEAS2:I"01 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR717            |                    |        |        | HR716 (Lo-16bits)                    |
| HR718            | MEAS2:I"01 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR719            |                    |        |        | HR718 (Lo-16bits)                    |
| HR720            | MEAS2:I"01 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR721            |                    |        |        | HR720 (Lo-16bits)                    |
| HR722            | MEAS2:I"01 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR723            |                    |        |        | HR722 (Lo-16bits)                    |
| HR724            | MEAS2:I"01 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR725            |                    |        |        | HR724 (Lo-16bits)                    |
| HR726            | MEAS2:I"01 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR727            |                    |        |        | HR726 (Lo-16bits)                    |
| HR728            | MEAS2:I"01 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR729            |                    |        |        | HR728 (Lo-16bits)                    |
| HR730            | MEAS2:I"01 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR731            |                    |        |        | HR730 (Lo-16bits)                    |
| HR732            | MEAS2:I"01 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR733            |                    |        |        | HR732 (Lo-16bits)                    |
| HR734            | MEAS2:I"01 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR735            |                    |        |        | HR734 (Lo-16bits)                    |
| HR736            | MEAS2:I"02 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR737            |                    |        |        | HR736 (Lo-16bits)                    |
| HR738            | MEAS2:I"02 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR739            |                    |        |        | HR738 (Lo-16bits)                    |
| HR740            | MEAS2:I"02 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR741            |                    |        |        | HR740 (Lo-16bits)                    |
| HR742            | MEAS2:I"02 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR743            |                    |        |        | HR742 (Lo-16bits)                    |
| HR744            | MEAS2:I"02 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR745            |                    |        |        | HR744 (Lo-16bits)                    |

| Holding Register | Parameter          | Access | Length | Info                                 |
|------------------|--------------------|--------|--------|--------------------------------------|
| HR746            | MEAS2:I"02 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR747            |                    |        |        | HR746 (Lo-16bits)                    |
| HR748            | MEAS2:I"02 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR749            |                    |        |        | HR748 (Lo-16bits)                    |
| HR750            | MEAS2:I"02 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR751            |                    |        |        | HR750 (Lo-16bits)                    |
| HR752            | MEAS2:I"02 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR753            |                    |        |        | HR752 (Lo-16bits)                    |
| HR754            | MEAS2:I"02 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR755            |                    |        |        | HR754 (Lo-16bits)                    |
| HR756            | MEAS2:I"02 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR757            |                    |        |        | HR756 (Lo-16bits)                    |
| HR758            | MEAS2:I"02 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR759            |                    |        |        | HR758 (Lo-16bits)                    |
| HR760            | MEAS2:I"02 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR761            |                    |        |        | HR760 (Lo-16bits)                    |
| HR762            | MEAS2:I"02 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR763            |                    |        |        | HR762 (Lo-16bits)                    |
| HR764            | MEAS2:I"02 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR765            |                    |        |        | HR764 (Lo-16bits)                    |
| HR766            | MEAS2:I"02 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR767            |                    |        |        | HR766 (Lo-16bits)                    |
| HR768            | MEAS2:I"02 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR769            |                    |        |        | HR768 (Lo-16bits)                    |
| HR770            | MEAS2:I"02 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR771            |                    |        |        | HR770 (Lo-16bits)                    |
| HR772            | MEAS2:I"02 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR773            |                    |        |        | HR772 (Lo-16bits)                    |
| HR774            | MEAS2:I"02 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR775            |                    |        |        | HR774 (Lo-16bits)                    |
| HR776            | MEAS2:I"02 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR777            |                    |        |        | HR776 (Lo-16bits)                    |
| HR778            | MEAS2:I"02 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR779            |                    |        |        | HR778 (Lo-16bits)                    |
| HR780            | MEAS2:I"02 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR781            |                    |        |        | HR780 (Lo-16bits)                    |
| HR782            | MEAS2:I"02 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR783            |                    |        |        | HR782 (Lo-16bits)                    |

| Holding Register | Parameter                     | Access | Length | Info                                  |
|------------------|-------------------------------|--------|--------|---------------------------------------|
| HR784            | MEAS2:I <sup>02</sup> 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR785            |                               |        |        | HR784 (Lo-16bits)                     |
| HR786            | MEAS2:I <sup>02</sup> 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR787            |                               |        |        | HR786 (Lo-16bits)                     |
| HR788            | MEAS2:I <sup>02</sup> 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR789            |                               |        |        | HR788 (Lo-16bits)                     |
| HR790            | MEAS2:I <sup>02</sup> 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR791            |                               |        |        | HR790 (Lo-16bits)                     |
| HR792            | MEAS2:I <sup>02</sup> 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR793            |                               |        |        | HR792 (Lo-16bits)                     |
| HR794            | MEAS2:I <sup>02</sup> 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR795            |                               |        |        | HR794 (Lo-16bits)                     |
| HR796            | MEAS2:I <sup>02</sup> 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR797            |                               |        |        | HR796 (Lo-16bits)                     |
| HR798            | MEAS3:U1Volt pri              | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR799            |                               |        |        | HR798 (Lo-16bits)                     |
| HR800            | MEAS3:U1Volt sec              | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR801            |                               |        |        | HR800 (Lo-16bits)                     |
| HR802            | MEAS3:U2Volt pri              | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR803            |                               |        |        | HR802 (Lo-16bits)                     |
| HR804            | MEAS3:U2Volt sec              | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR805            |                               |        |        | HR804 (Lo-16bits)                     |
| HR806            | MEAS3:U3Volt pri              | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR807            |                               |        |        | HR806 (Lo-16bits)                     |
| HR808            | MEAS3:U3Volt sec              | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR809            |                               |        |        | HR808 (Lo-16bits)                     |
| HR810            | MEAS3:U4Volt pri              | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR811            |                               |        |        | HR810 (Lo-16bits)                     |
| HR812            | MEAS3:U4Volt sec              | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR813            |                               |        |        | HR812 (Lo-16bits)                     |
| HR814            | MEAS3:U1Volt TRMS pri         | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR815            |                               |        |        | HR814 (Lo-16bits)                     |
| HR816            | MEAS3:U1Volt TRMS sec         | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR817            |                               |        |        | HR816 (Lo-16bits)                     |
| HR818            | MEAS3:U2Volt TRMS pri         | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR819            |                               |        |        | HR818 (Lo-16bits)                     |
| HR820            | MEAS3:U2Volt TRMS sec         | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR821            |                               |        |        | HR820 (Lo-16bits)                     |

| Holding Register | Parameter                 | Access | Length | Info                                  |
|------------------|---------------------------|--------|--------|---------------------------------------|
| HR822            | MEAS3:U3Volt TRMS pri     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR823            |                           |        |        | HR822 (Lo-16bits)                     |
| HR824            | MEAS3:U3Volt TRMS sec     | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR825            |                           |        |        | HR824 (Lo-16bits)                     |
| HR826            | MEAS3:U4Volt TRMS pri     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR827            |                           |        |        | HR826 (Lo-16bits)                     |
| HR828            | MEAS3:U4Volt TRMS sec     | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR829            |                           |        |        | HR828 (Lo-16bits)                     |
| HR830            | MEAS3:Pos.seq.Volt.pri    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR831            |                           |        |        | HR830 (Lo-16bits)                     |
| HR832            | MEAS3:Pos.seq.Volt.sec    | R      | 2      | FLOAT [0.00...480.00] (Hi-16bits)     |
| HR833            |                           |        |        | HR832 (Lo-16bits)                     |
| HR834            | MEAS3:Neg.seq.Volt.pri    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR835            |                           |        |        | HR834 (Lo-16bits)                     |
| HR836            | MEAS3:Neg.seq.Volt.sec    | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR837            |                           |        |        | HR836 (Lo-16bits)                     |
| HR838            | MEAS3:Zero.seq.Volt.pri   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR839            |                           |        |        | HR838 (Lo-16bits)                     |
| HR840            | MEAS3:Zero.seq.Volt.sec   | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR841            |                           |        |        | HR840 (Lo-16bits)                     |
| HR842            | MEAS3:U0 Calc. pri        | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR843            |                           |        |        | HR842 (Lo-16bits)                     |
| HR844            | MEAS3:U0 Calc.Volt sec    | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)     |
| HR845            |                           |        |        | HR844 (Lo-16bits)                     |
| HR846            | MEAS3:U1 Angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR847            |                           |        |        | HR846 (Lo-16bits)                     |
| HR848            | MEAS3:U2 Angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR849            |                           |        |        | HR848 (Lo-16bits)                     |
| HR850            | MEAS3:U3 Angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR851            |                           |        |        | HR850 (Lo-16bits)                     |
| HR852            | MEAS3:U4 Angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR853            |                           |        |        | HR852 (Lo-16bits)                     |
| HR854            | MEAS3:Pos.Seq.volt.Angle  | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR855            |                           |        |        | HR854 (Lo-16bits)                     |
| HR856            | MEAS3:Neg.Seq.volt.Angle  | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR857            |                           |        |        | HR856 (Lo-16bits)                     |
| HR858            | MEAS3:Zero.Seq.volt.Angle | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR859            |                           |        |        | HR858 (Lo-16bits)                     |



| Holding Register | Parameter                      | Access | Length | Info                                  |
|------------------|--------------------------------|--------|--------|---------------------------------------|
| HR860            | MEAS3:System volt UL12 mag     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR861            |                                |        |        | HR860 (Lo-16bits)                     |
| HR862            | MEAS3:System volt UL12 mag(kV) | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR863            |                                |        |        | HR862 (Lo-16bits)                     |
| HR864            | MEAS3:System volt UL12 ang     | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR865            |                                |        |        | HR864 (Lo-16bits)                     |
| HR866            | MEAS3:System volt UL23 mag     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR867            |                                |        |        | HR866 (Lo-16bits)                     |
| HR868            | MEAS3:System volt UL23 mag(kV) | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR869            |                                |        |        | HR868 (Lo-16bits)                     |
| HR870            | MEAS3:System volt UL23 ang     | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR871            |                                |        |        | HR870 (Lo-16bits)                     |
| HR872            | MEAS3:System volt UL31 mag     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR873            |                                |        |        | HR872 (Lo-16bits)                     |
| HR874            | MEAS3:System volt UL31 mag(kV) | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR875            |                                |        |        | HR874 (Lo-16bits)                     |
| HR876            | MEAS3:System volt UL31 ang     | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR877            |                                |        |        | HR876 (Lo-16bits)                     |
| HR878            | MEAS3:System volt UL1 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR879            |                                |        |        | HR878 (Lo-16bits)                     |
| HR880            | MEAS3:System volt UL1 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR881            |                                |        |        | HR880 (Lo-16bits)                     |
| HR882            | MEAS3:System volt UL1 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR883            |                                |        |        | HR882 (Lo-16bits)                     |
| HR884            | MEAS3:System volt UL2 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR885            |                                |        |        | HR884 (Lo-16bits)                     |
| HR886            | MEAS3:System volt UL2 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR887            |                                |        |        | HR886 (Lo-16bits)                     |
| HR888            | MEAS3:System volt UL2 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR889            |                                |        |        | HR888 (Lo-16bits)                     |
| HR890            | MEAS3:System volt UL3 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR891            |                                |        |        | HR890 (Lo-16bits)                     |
| HR892            | MEAS3:System volt UL3 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR893            |                                |        |        | HR892 (Lo-16bits)                     |
| HR894            | MEAS3:System volt UL3 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |

| Holding Register | Parameter                     | Access | Length | Info                                  |
|------------------|-------------------------------|--------|--------|---------------------------------------|
| HR895            |                               |        |        | HR894 (Lo-16bits)                     |
| HR896            | MEAS3:System volt U0 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR897            |                               |        |        | HR896 (Lo-16bits)                     |
| HR898            | MEAS3:System volt U0 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR899            |                               |        |        | HR898 (Lo-16bits)                     |
| HR900            | MEAS3:System volt U0 mag(%)   | R      | 2      | FLOAT [0.00...120.00] (Hi-16bits)     |
| HR901            |                               |        |        | HR900 (Lo-16bits)                     |
| HR902            | MEAS3:System volt U0 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR903            |                               |        |        | HR902 (Lo-16bits)                     |
| HR904            | MEAS3:System volt U3 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR905            |                               |        |        | HR904 (Lo-16bits)                     |
| HR906            | MEAS3:System volt U3 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR907            |                               |        |        | HR906 (Lo-16bits)                     |
| HR908            | MEAS3:System volt U3 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR909            |                               |        |        | HR908 (Lo-16bits)                     |
| HR910            | MEAS3:System volt U4 mag      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits) |
| HR911            |                               |        |        | HR910 (Lo-16bits)                     |
| HR912            | MEAS3:System volt U4 mag(kV)  | R      | 2      | FLOAT [0.0...1000.0] (Hi-16bits)      |
| HR913            |                               |        |        | HR912 (Lo-16bits)                     |
| HR914            | MEAS3:System volt U4 ang      | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR915            |                               |        |        | HR914 (Lo-16bits)                     |
| HR916            | MEAS3:System volt UL1 ang Ref | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR917            |                               |        |        | HR916 (Lo-16bits)                     |
| HR918            | MEAS3:System volt UL2 ang Ref | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR919            |                               |        |        | HR918 (Lo-16bits)                     |
| HR920            | MEAS3:System volt UL3 ang Ref | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR921            |                               |        |        | HR920 (Lo-16bits)                     |
| HR922            | MEAS3:U1 Fund                 | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR923            |                               |        |        | HR922 (Lo-16bits)                     |
| HR924            | MEAS3:U1 2.harm               | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR925            |                               |        |        | HR924 (Lo-16bits)                     |
| HR926            | MEAS3:U1 3.harm               | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |
| HR927            |                               |        |        | HR926 (Lo-16bits)                     |
| HR928            | MEAS3:U1 4.harm               | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)  |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR929            |                  |        |        | HR928 (Lo-16bits)                    |
| HR930            | MEAS3:U1 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR931            |                  |        |        | HR930 (Lo-16bits)                    |
| HR932            | MEAS3:U1 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR933            |                  |        |        | HR932 (Lo-16bits)                    |
| HR934            | MEAS3:U1 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR935            |                  |        |        | HR934 (Lo-16bits)                    |
| HR936            | MEAS3:U1 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR937            |                  |        |        | HR936 (Lo-16bits)                    |
| HR938            | MEAS3:U1 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR939            |                  |        |        | HR938 (Lo-16bits)                    |
| HR940            | MEAS3:U1 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR941            |                  |        |        | HR940 (Lo-16bits)                    |
| HR942            | MEAS3:U1 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR943            |                  |        |        | HR942 (Lo-16bits)                    |
| HR944            | MEAS3:U1 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR945            |                  |        |        | HR944 (Lo-16bits)                    |
| HR946            | MEAS3:U1 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR947            |                  |        |        | HR946 (Lo-16bits)                    |
| HR948            | MEAS3:U1 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR949            |                  |        |        | HR948 (Lo-16bits)                    |
| HR950            | MEAS3:U1 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR951            |                  |        |        | HR950 (Lo-16bits)                    |
| HR952            | MEAS3:U1 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR953            |                  |        |        | HR952 (Lo-16bits)                    |
| HR954            | MEAS3:U1 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR955            |                  |        |        | HR954 (Lo-16bits)                    |
| HR956            | MEAS3:U1 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR957            |                  |        |        | HR956 (Lo-16bits)                    |
| HR958            | MEAS3:U1 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR959            |                  |        |        | HR958 (Lo-16bits)                    |
| HR960            | MEAS3:U1 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR961            |                  |        |        | HR960 (Lo-16bits)                    |
| HR962            | MEAS3:U1 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR963            |                  |        |        | HR962 (Lo-16bits)                    |
| HR964            | MEAS3:U1 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR965            |                  |        |        | HR964 (Lo-16bits)                    |
| HR966            | MEAS3:U1 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR967            |                  |        |        | HR966 (Lo-16bits)                    |
| HR968            | MEAS3:U1 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR969            |                  |        |        | HR968 (Lo-16bits)                    |
| HR970            | MEAS3:U1 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR971            |                  |        |        | HR970 (Lo-16bits)                    |
| HR972            | MEAS3:U1 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR973            |                  |        |        | HR972 (Lo-16bits)                    |
| HR974            | MEAS3:U1 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR975            |                  |        |        | HR974 (Lo-16bits)                    |
| HR976            | MEAS3:U1 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR977            |                  |        |        | HR976 (Lo-16bits)                    |
| HR978            | MEAS3:U1 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR979            |                  |        |        | HR978 (Lo-16bits)                    |
| HR980            | MEAS3:U1 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR981            |                  |        |        | HR980 (Lo-16bits)                    |
| HR982            | MEAS3:U1 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR983            |                  |        |        | HR982 (Lo-16bits)                    |
| HR984            | MEAS3:U2 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR985            |                  |        |        | HR984 (Lo-16bits)                    |
| HR986            | MEAS3:U2 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR987            |                  |        |        | HR986 (Lo-16bits)                    |
| HR988            | MEAS3:U2 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR989            |                  |        |        | HR988 (Lo-16bits)                    |
| HR990            | MEAS3:U2 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR991            |                  |        |        | HR990 (Lo-16bits)                    |
| HR992            | MEAS3:U2 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR993            |                  |        |        | HR992 (Lo-16bits)                    |
| HR994            | MEAS3:U2 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR995            |                  |        |        | HR994 (Lo-16bits)                    |
| HR996            | MEAS3:U2 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR997            |                  |        |        | HR996 (Lo-16bits)                    |
| HR998            | MEAS3:U2 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR999            |                  |        |        | HR998 (Lo-16bits)                    |
| HR1000           | MEAS3:U2 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1001           |                  |        |        | HR1000 (Lo-16bits)                   |
| HR1002           | MEAS3:U2 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1003           |                  |        |        | HR1002 (Lo-16bits)                   |
| HR1004           | MEAS3:U2 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR1005           |                  |        |        | HR1004 (Lo-16bits)                   |
| HR1006           | MEAS3:U2 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1007           |                  |        |        | HR1006 (Lo-16bits)                   |
| HR1008           | MEAS3:U2 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1009           |                  |        |        | HR1008 (Lo-16bits)                   |
| HR1010           | MEAS3:U2 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1011           |                  |        |        | HR1010 (Lo-16bits)                   |
| HR1012           | MEAS3:U2 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1013           |                  |        |        | HR1012 (Lo-16bits)                   |
| HR1014           | MEAS3:U2 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1015           |                  |        |        | HR1014 (Lo-16bits)                   |
| HR1016           | MEAS3:U2 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1017           |                  |        |        | HR1016 (Lo-16bits)                   |
| HR1018           | MEAS3:U2 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1019           |                  |        |        | HR1018 (Lo-16bits)                   |
| HR1020           | MEAS3:U2 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1021           |                  |        |        | HR1020 (Lo-16bits)                   |
| HR1022           | MEAS3:U2 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1023           |                  |        |        | HR1022 (Lo-16bits)                   |
| HR1024           | MEAS3:U2 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1025           |                  |        |        | HR1024 (Lo-16bits)                   |
| HR1026           | MEAS3:U2 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1027           |                  |        |        | HR1026 (Lo-16bits)                   |
| HR1028           | MEAS3:U2 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1029           |                  |        |        | HR1028 (Lo-16bits)                   |
| HR1030           | MEAS3:U2 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1031           |                  |        |        | HR1030 (Lo-16bits)                   |
| HR1032           | MEAS3:U2 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1033           |                  |        |        | HR1032 (Lo-16bits)                   |
| HR1034           | MEAS3:U2 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1035           |                  |        |        | HR1034 (Lo-16bits)                   |
| HR1036           | MEAS3:U2 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1037           |                  |        |        | HR1036 (Lo-16bits)                   |
| HR1038           | MEAS3:U2 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1039           |                  |        |        | HR1038 (Lo-16bits)                   |
| HR1040           | MEAS3:U2 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1041           |                  |        |        | HR1040 (Lo-16bits)                   |
| HR1042           | MEAS3:U2 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR1043           |                  |        |        | HR1042 (Lo-16bits)                   |
| HR1044           | MEAS3:U2 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1045           |                  |        |        | HR1044 (Lo-16bits)                   |
| HR1046           | MEAS3:U3 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1047           |                  |        |        | HR1046 (Lo-16bits)                   |
| HR1048           | MEAS3:U3 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1049           |                  |        |        | HR1048 (Lo-16bits)                   |
| HR1050           | MEAS3:U3 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1051           |                  |        |        | HR1050 (Lo-16bits)                   |
| HR1052           | MEAS3:U3 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1053           |                  |        |        | HR1052 (Lo-16bits)                   |
| HR1054           | MEAS3:U3 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1055           |                  |        |        | HR1054 (Lo-16bits)                   |
| HR1056           | MEAS3:U3 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1057           |                  |        |        | HR1056 (Lo-16bits)                   |
| HR1058           | MEAS3:U3 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1059           |                  |        |        | HR1058 (Lo-16bits)                   |
| HR1060           | MEAS3:U3 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1061           |                  |        |        | HR1060 (Lo-16bits)                   |
| HR1062           | MEAS3:U3 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1063           |                  |        |        | HR1062 (Lo-16bits)                   |
| HR1064           | MEAS3:U3 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1065           |                  |        |        | HR1064 (Lo-16bits)                   |
| HR1066           | MEAS3:U3 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1067           |                  |        |        | HR1066 (Lo-16bits)                   |
| HR1068           | MEAS3:U3 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1069           |                  |        |        | HR1068 (Lo-16bits)                   |
| HR1070           | MEAS3:U3 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1071           |                  |        |        | HR1070 (Lo-16bits)                   |
| HR1072           | MEAS3:U3 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1073           |                  |        |        | HR1072 (Lo-16bits)                   |
| HR1074           | MEAS3:U3 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1075           |                  |        |        | HR1074 (Lo-16bits)                   |
| HR1076           | MEAS3:U3 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1077           |                  |        |        | HR1076 (Lo-16bits)                   |
| HR1078           | MEAS3:U3 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1079           |                  |        |        | HR1078 (Lo-16bits)                   |
| HR1080           | MEAS3:U3 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR1081           |                  |        |        | HR1080 (Lo-16bits)                   |
| HR1082           | MEAS3:U3 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1083           |                  |        |        | HR1082 (Lo-16bits)                   |
| HR1084           | MEAS3:U3 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1085           |                  |        |        | HR1084 (Lo-16bits)                   |
| HR1086           | MEAS3:U3 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1087           |                  |        |        | HR1086 (Lo-16bits)                   |
| HR1088           | MEAS3:U3 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1089           |                  |        |        | HR1088 (Lo-16bits)                   |
| HR1090           | MEAS3:U3 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1091           |                  |        |        | HR1090 (Lo-16bits)                   |
| HR1092           | MEAS3:U3 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1093           |                  |        |        | HR1092 (Lo-16bits)                   |
| HR1094           | MEAS3:U3 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1095           |                  |        |        | HR1094 (Lo-16bits)                   |
| HR1096           | MEAS3:U3 26.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1097           |                  |        |        | HR1096 (Lo-16bits)                   |
| HR1098           | MEAS3:U3 27.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1099           |                  |        |        | HR1098 (Lo-16bits)                   |
| HR1100           | MEAS3:U3 28.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1101           |                  |        |        | HR1100 (Lo-16bits)                   |
| HR1102           | MEAS3:U3 29.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1103           |                  |        |        | HR1102 (Lo-16bits)                   |
| HR1104           | MEAS3:U3 30.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1105           |                  |        |        | HR1104 (Lo-16bits)                   |
| HR1106           | MEAS3:U3 31.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1107           |                  |        |        | HR1106 (Lo-16bits)                   |
| HR1108           | MEAS3:U4 Fund    | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1109           |                  |        |        | HR1108 (Lo-16bits)                   |
| HR1110           | MEAS3:U4 2.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1111           |                  |        |        | HR1110 (Lo-16bits)                   |
| HR1112           | MEAS3:U4 3.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1113           |                  |        |        | HR1112 (Lo-16bits)                   |
| HR1114           | MEAS3:U4 4.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1115           |                  |        |        | HR1114 (Lo-16bits)                   |
| HR1116           | MEAS3:U4 5.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1117           |                  |        |        | HR1116 (Lo-16bits)                   |
| HR1118           | MEAS3:U4 6.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |

| Holding Register | Parameter        | Access | Length | Info                                 |
|------------------|------------------|--------|--------|--------------------------------------|
| HR1119           |                  |        |        | HR1118 (Lo-16bits)                   |
| HR1120           | MEAS3:U4 7.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1121           |                  |        |        | HR1120 (Lo-16bits)                   |
| HR1122           | MEAS3:U4 8.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1123           |                  |        |        | HR1122 (Lo-16bits)                   |
| HR1124           | MEAS3:U4 9.harm  | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1125           |                  |        |        | HR1124 (Lo-16bits)                   |
| HR1126           | MEAS3:U4 10.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1127           |                  |        |        | HR1126 (Lo-16bits)                   |
| HR1128           | MEAS3:U4 11.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1129           |                  |        |        | HR1128 (Lo-16bits)                   |
| HR1130           | MEAS3:U4 12.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1131           |                  |        |        | HR1130 (Lo-16bits)                   |
| HR1132           | MEAS3:U4 13.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1133           |                  |        |        | HR1132 (Lo-16bits)                   |
| HR1134           | MEAS3:U4 14.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1135           |                  |        |        | HR1134 (Lo-16bits)                   |
| HR1136           | MEAS3:U4 15.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1137           |                  |        |        | HR1136 (Lo-16bits)                   |
| HR1138           | MEAS3:U4 16.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1139           |                  |        |        | HR1138 (Lo-16bits)                   |
| HR1140           | MEAS3:U4 17.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1141           |                  |        |        | HR1140 (Lo-16bits)                   |
| HR1142           | MEAS3:U4 18.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1143           |                  |        |        | HR1142 (Lo-16bits)                   |
| HR1144           | MEAS3:U4 19.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1145           |                  |        |        | HR1144 (Lo-16bits)                   |
| HR1146           | MEAS3:U4 20.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1147           |                  |        |        | HR1146 (Lo-16bits)                   |
| HR1148           | MEAS3:U4 21.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1149           |                  |        |        | HR1148 (Lo-16bits)                   |
| HR1150           | MEAS3:U4 22.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1151           |                  |        |        | HR1150 (Lo-16bits)                   |
| HR1152           | MEAS3:U4 23.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1153           |                  |        |        | HR1152 (Lo-16bits)                   |
| HR1154           | MEAS3:U4 24.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |
| HR1155           |                  |        |        | HR1154 (Lo-16bits)                   |
| HR1156           | MEAS3:U4 25.harm | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits) |



| Holding Register | Parameter                          | Access | Length | Info   |
|------------------|------------------------------------|--------|--------|--|
| HR1157           |                                    |        |        | HR1156 (Lo-16bits)                           |
| HR1158           | MEAS3:U4 26.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1159           |                                    |        |        | HR1158 (Lo-16bits)                           |
| HR1160           | MEAS3:U4 27.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1161           |                                    |        |        | HR1160 (Lo-16bits)                           |
| HR1162           | MEAS3:U4 28.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1163           |                                    |        |        | HR1162 (Lo-16bits)                           |
| HR1164           | MEAS3:U4 29.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1165           |                                    |        |        | HR1164 (Lo-16bits)                           |
| HR1166           | MEAS3:U4 30.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1167           |                                    |        |        | HR1166 (Lo-16bits)                           |
| HR1168           | MEAS3:U4 31.harm                   | R      | 2      | FLOAT [0.00...100000.00] (Hi-16bits)         |
| HR1169           |                                    |        |        | HR1168 (Lo-16bits)                           |
| HR1170           | POW1:Exp.Active Energy MWh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1171           |                                    |        |        | HR1170 (Lo-16bits)                           |
| HR1172           | POW1:Exp.Active Energy kWh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1173           |                                    |        |        | HR1172 (Lo-16bits)                           |
| HR1174           | POW1:Imp.Active Energy MWh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1175           |                                    |        |        | HR1174 (Lo-16bits)                           |
| HR1176           | POW1:Imp.Active Energy kWh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1177           |                                    |        |        | HR1176 (Lo-16bits)                           |
| HR1178           | POW1:Exp/Imp Act. E balance MWh    | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1179           |                                    |        |        | HR1178 (Lo-16bits)                           |
| HR1180           | POW1:Exp/Imp Act. E balance kWh    | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1181           |                                    |        |        | HR1180 (Lo-16bits)                           |
| HR1182           | POW1:Exp.React.Cap.E.MVarh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1183           |                                    |        |        | HR1182 (Lo-16bits)                           |
| HR1184           | POW1:Exp.React.Cap.E.kVarh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1185           |                                    |        |        | HR1184 (Lo-16bits)                           |
| HR1186           | POW1:Imp.React.Cap.E.MVarh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1187           |                                    |        |        | HR1186 (Lo-16bits)                           |
| HR1188           | POW1:Imp.React.Cap.E.kVarh         | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1189           |                                    |        |        | HR1188 (Lo-16bits)                           |
| HR1190           | POW1:Exp/Imp React.Cap.E.bal.MVarh | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1191           |                                    |        |        | HR1190 (Lo-16bits)                           |
| HR1192           | POW1:Exp/Imp React.Cap.E.bal.kVarh | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |

| Holding Register | Parameter                               | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR1193           |   |        |        | HR1192 (Lo-16bits)                           |
| HR1194           | POW1:Exp.React.Ind.E.MVarh              | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1195           |   |        |        | HR1194 (Lo-16bits)                           |
| HR1196           | POW1:Exp.React.Ind.E.kVarh              | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1197           |   |        |        | HR1196 (Lo-16bits)                           |
| HR1198           | POW1:Imp.React.Ind.E.MVarh              | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1199           |   |        |        | HR1198 (Lo-16bits)                           |
| HR1200           | POW1:Imp.React.Ind.E.kVarh              | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1201           |   |        |        | HR1200 (Lo-16bits)                           |
| HR1202           | POW1:Exp/Imp<br>React.Ind.E.bal.MVarh   | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1203           |   |        |        | HR1202 (Lo-16bits)                           |
| HR1204           | POW1:Exp/Imp<br>React.Ind.E.bal.kVarh   | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1205           |   |        |        | HR1204 (Lo-16bits)                           |
| HR1206           | POW1:Reset 3ph Energies                 | RW     | 1      | 0=-; 1=Reset                                 |
| HR1207           | POW1:POW1 3PH Apparent<br>power (S)     | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1208           |   |        |        | HR1207 (Lo-16bits)                           |
| HR1209           | POW1:POW1 3PH Apparent<br>power (S MVA) | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1210           |   |        |        | HR1209 (Lo-16bits)                           |
| HR1211           | POW1:POW1 3PH Active<br>power (P)       | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1212           |   |        |        | HR1211 (Lo-16bits)                           |
| HR1213           | POW1:POW1 3PH Active<br>power (P MW)    | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1214           |   |        |        | HR1213 (Lo-16bits)                           |
| HR1215           | POW1:POW1 3PH Reactive<br>power (Q)     | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1216           |   |        |        | HR1215 (Lo-16bits)                           |
| HR1217           | POW1:POW1 3PH Reactive<br>power (QMVar) | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1218           |   |        |        | HR1217 (Lo-16bits)                           |
| HR1219           | POW1:POW1 3PH Tan(phi)                  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1220           |   |        |        | HR1219 (Lo-16bits)                           |
| HR1221           | POW1:POW1 3PH Cos(phi)                  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1222           |   |        |        | HR1221 (Lo-16bits)                           |
| HR1223           | FLTREG:Recorded fault value             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1224           |   |        |        | HR1223 (Lo-16bits)                           |
| HR1225           | FLTREG:Recorded fault value             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1226           |   |        |        | HR1225 (Lo-16bits)                           |

| Holding Register | Parameter  | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR1227           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1228           |  |        |        | HR1227 (Lo-16bits)   |
| HR1229           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1230           |  |        |        | HR1229 (Lo-16bits)   |
| HR1231           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1232           |  |        |        | HR1231 (Lo-16bits)   |
| HR1233           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1234           |  |        |        | HR1233 (Lo-16bits)   |
| HR1235           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1236           |  |        |        | HR1235 (Lo-16bits)   |
| HR1237           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1238           |  |        |        | HR1237 (Lo-16bits)   |
| HR1239           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1240           |  |        |        | HR1239 (Lo-16bits)   |
| HR1241           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1242           |  |        |        | HR1241 (Lo-16bits)   |
| HR1243           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1244           |  |        |        | HR1243 (Lo-16bits)   |
| HR1245           | FLTREG:Recorded fault value  | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits)   |
| HR1246           |  |        |        | HR1245 (Lo-16bits)   |
| HR1247           | FREQS:f atm. Protections<br>(when not measurable returns to nominal) | R      | 2      | FLOAT [0.000...75.000] (Hi-16bits)   |
| HR1248           |  |        |        | HR1247 (Lo-16bits)   |
| HR1249           | DIGI:DIs   | R      | 2      | 0b=DI1; 1b=DI2; 2b=DI3; 3b=DI4; 4b=DI5; 5b=DI6;<br>6b=DI7; 7b=DI8; 8b=DI9; 9b=DI10; 10b=DI11; 11b=DI12;<br>12b=DI13; 13b=DI14; 14b=DI15; 15b=DI16; 16b=DI17;<br>17b=DI18; 18b=DI19; 19b=DI20; 20b=DI21; 21b=DI22;<br>22b=DI23; 23b=DI24; 24b=DI25; 25b=DI26; 26b=DI27;<br>27b=DI28; 28b=DI29; 29b=DI30; 30b=DI31; 31b=DI32<br>(Hi-16bits)          |
| HR1250           |  |        |        | HR1249 (Lo-16bits)   |
| HR1251           | DIGI:DIs   | R      | 2      | 0b=DI33; 1b=DI34; 2b=DI35; 3b=DI36; 4b=DI37;<br>5b=DI38; 6b=DI39; 7b=DI40; 8b=DI41; 9b=DI42;<br>10b=DI43; 11b=DI44; 12b=DI45; 13b=DI46; 14b=DI47;<br>15b=DI48; 16b=DI49; 17b=DI50; 18b=DI51; 19b=DI52;<br>20b=DI53; 21b=DI54; 22b=DI55; 23b=DI56; 24b=DI57;<br>25b=DI58; 26b=DI59; 27b=DI60; 28b=DI61; 29b=DI62;<br>30b=DI63; 31b=DI64 (Hi-16bits) |
| HR1252           |  |        |        | HR1251 (Lo-16bits)   |
| HR1253           | RELE:Outputs status  | R      | 2      | 0b=O1; 1b=O2; 2b=O3; 3b=O4; 4b=O5; 5b=O6; 6b=O7;<br>7b=O8; 8b=O9; 9b=O10; 10b=O11; 11b=O12; 12b=O13;<br>13b=O14; 14b=O15; 15b=O16; 16b=O17; 17b=O18;<br>18b=O19; 19b=O20; 20b=O21; 21b=O22; 22b=O23;<br>23b=O24; 24b=O25; 25b=O26; 26b=O27; 27b=O28;<br>28b=O29; 29b=O30 (Hi-16bits)   |
| HR1254           |  |        |        | HR1253 (Lo-16bits)   |

| Holding Register | Parameter                | Access | Length | Info   |
|------------------|--------------------------|--------|--------|--|
| HR1255           | SGS:Active setting group | R      | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8   |
| HR1256           | SGS:Force SG             | RW     | 1      | 0=none; 1=SG1; 2=SG2; 3=SG3; 4=SG4; 5=SG5; 6=SG6; 7=SG7; 8=SG8   |
| HR1257           | SGS:Force SG change      | RW     | 1      | 0=Disabled; 1=Enabled  |
| HR1258           | SGS:Used setting groups  | RW     | 1      | 0=SG1; 1=SG1...2; 2=SG1...3; 3=SG1...4; 4=SG1...5; 5=SG1...6; 6=SG1...7; 7=SG1...8                                 |
| HR1259           | SGS:Remote SG change     | RW     | 1      | 0=none; 1=SG1; 2=SG2; 3=SG3; 4=SG4; 5=SG5; 6=SG6; 7=SG7; 8=SG8   |
| HR1260           | LOGIC:Reset Latches      | RW     | 1      | 0=-; 1=Reset   |
| HR1261           | NOC1:l> condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1262           | NOC2:l>> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1263           | NOC3:l>>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1264           | NOC4:l>>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1265           | DOC1:ldir> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1266           | DOC2:ldir>> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1267           | DOC3:ldir>>> condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1268           | DOC4:ldir>>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1269           | NEF1:l0> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1270           | NEF1:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1271           | NEF2:l0>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1272           | NEF2:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1273           | NEF3:l0>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1274           | NEF3:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1275           | NEF4:l0>>>> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1276           | NEF4:Detected fault type | R      | 1      | 0=-; 1=A-G-R; 2=B-G-F; 3=C-G-R; 4=A-G-F; 5=B-G-R; 6=C-G-F  |
| HR1277           | DEF1:l0dir> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1278           | DEF1:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1279           | DEF1:l0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1280           | DEF2:l0Dir>> condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1281           | DEF2:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1282           | DEF2:l0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1283           | DEF3:l0Dir>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1284           | DEF3:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |

| Holding Register | Parameter                | Access | Length | Info   |
|------------------|--------------------------|--------|--------|--|
| HR1285           | DEF3:I0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1286           | DEF4:I0Dir>>>> condition | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Unearthed Start; 5=Unearthed Trip; 6=Compensated Start; 7=Compensated Trip |
| HR1287           | DEF4:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input   |
| HR1288           | DEF4:I0 Direction now    | R      | 1      | 0=Reverse; 1=Forward; 2=Undefined;   |
| HR1289           | IEF1:I0Int> condition    | R      | 1      | 0=Normal; 1=StartFWD; 2=StartREV; 3=Trip; 4=Blocked;   |
| HR1290           | IEF1:U0> Measuring now   | R      | 1      | 0=No U0 avail!; 1=U3 Input; 2=U4 Input   |
| HR1291           | CUB1:I2> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1292           | CUB2:I2>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1293           | CUB3:I2>>> condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1294           | CUB4:I2>>>> condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1295           | HOC1:Ih> condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1296           | HOC1:L1 Harm p.u.        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1297           |                          |        |        | HR1296 (Lo-16bits)   |
| HR1298           | HOC1:L1 Harm per         | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1299           |                          |        |        | HR1298 (Lo-16bits)   |
| HR1300           | HOC1:L2 Harm p.u.        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1301           |                          |        |        | HR1300 (Lo-16bits)   |
| HR1302           | HOC1:L2 Harm per         | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1303           |                          |        |        | HR1302 (Lo-16bits)   |
| HR1304           | HOC1:L3 Harm p.u.        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1305           |                          |        |        | HR1304 (Lo-16bits)   |
| HR1306           | HOC1:L3 Harm per         | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1307           |                          |        |        | HR1306 (Lo-16bits)   |
| HR1308           | HOC1:I01 Harm p.u.       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1309           |                          |        |        | HR1308 (Lo-16bits)   |
| HR1310           | HOC1:I01 Harm per        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1311           |                          |        |        | HR1310 (Lo-16bits)   |
| HR1312           | HOC1:I02 Harm p.u.       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1313           |                          |        |        | HR1312 (Lo-16bits)   |
| HR1314           | HOC1:I02 Harm per        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1315           |                          |        |        | HR1314 (Lo-16bits)   |
| HR1316           | HOC2:Ih>> condition      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1317           | HOC2:L1 Harm p.u.        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1318           |                          |        |        | HR1317 (Lo-16bits)   |
| HR1319           | HOC2:L1 Harm per         | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1320           |                          |        |        | HR1319 (Lo-16bits)   |
| HR1321           | HOC2:L2 Harm p.u.        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |

| Holding Register | Parameter             | Access | Length | Info                                 |
|------------------|-----------------------|--------|--------|--------------------------------------|
| HR1322           |                       |        |        | HR1321 (Lo-16bits)                   |
| HR1323           | HOC2:L2 Harm per      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1324           |                       |        |        | HR1323 (Lo-16bits)                   |
| HR1325           | HOC2:L3 Harm p.u.     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1326           |                       |        |        | HR1325 (Lo-16bits)                   |
| HR1327           | HOC2:L3 Harm per      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1328           |                       |        |        | HR1327 (Lo-16bits)                   |
| HR1329           | HOC2:I01 Harm p.u.    | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1330           |                       |        |        | HR1329 (Lo-16bits)                   |
| HR1331           | HOC2:I01 Harm per     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1332           |                       |        |        | HR1331 (Lo-16bits)                   |
| HR1333           | HOC2:I02 Harm p.u.    | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1334           |                       |        |        | HR1333 (Lo-16bits)                   |
| HR1335           | HOC2:I02 Harm per     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1336           |                       |        |        | HR1335 (Lo-16bits)                   |
| HR1337           | HOC3:Ih>>> condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked |
| HR1338           | HOC3:L1 Harm p.u.     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1339           |                       |        |        | HR1338 (Lo-16bits)                   |
| HR1340           | HOC3:L1 Harm per      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1341           |                       |        |        | HR1340 (Lo-16bits)                   |
| HR1342           | HOC3:L2 Harm p.u.     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1343           |                       |        |        | HR1342 (Lo-16bits)                   |
| HR1344           | HOC3:L2 Harm per      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1345           |                       |        |        | HR1344 (Lo-16bits)                   |
| HR1346           | HOC3:L3 Harm p.u.     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1347           |                       |        |        | HR1346 (Lo-16bits)                   |
| HR1348           | HOC3:L3 Harm per      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1349           |                       |        |        | HR1348 (Lo-16bits)                   |
| HR1350           | HOC3:I01 Harm p.u.    | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1351           |                       |        |        | HR1350 (Lo-16bits)                   |
| HR1352           | HOC3:I01 Harm per     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1353           |                       |        |        | HR1352 (Lo-16bits)                   |
| HR1354           | HOC3:I02 Harm p.u.    | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1355           |                       |        |        | HR1354 (Lo-16bits)                   |
| HR1356           | HOC3:I02 Harm per     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |
| HR1357           |                       |        |        | HR1356 (Lo-16bits)                   |
| HR1358           | HOC4:Ih>>>> condition | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked |
| HR1359           | HOC4:L1 Harm p.u.     | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)    |

| Holding Register | Parameter               | Access | Length | Info   |
|------------------|-------------------------|--------|--------|--|
| HR1360           |                         |        |        | HR1359 (Lo-16bits)   |
| HR1361           | HOC4:L1 Harm per        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1362           |                         |        |        | HR1361 (Lo-16bits)   |
| HR1363           | HOC4:L2 Harm p.u.       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1364           |                         |        |        | HR1363 (Lo-16bits)   |
| HR1365           | HOC4:L2 Harm per        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1366           |                         |        |        | HR1365 (Lo-16bits)   |
| HR1367           | HOC4:L3 Harm p.u.       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1368           |                         |        |        | HR1367 (Lo-16bits)   |
| HR1369           | HOC4:L3 Harm per        | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1370           |                         |        |        | HR1369 (Lo-16bits)   |
| HR1371           | HOC4:I01 Harm p.u.      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1372           |                         |        |        | HR1371 (Lo-16bits)   |
| HR1373           | HOC4:I01 Harm per       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1374           |                         |        |        | HR1373 (Lo-16bits)   |
| HR1375           | HOC4:I02 Harm p.u.      | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1376           |                         |        |        | HR1375 (Lo-16bits)   |
| HR1377           | HOC4:I02 Harm per       | R      | 2      | FLOAT [0...100000.00] (Hi-16bits)  |
| HR1378           |                         |        |        | HR1377 (Lo-16bits)   |
| HR1379           | CLP1:CLP condition      | R      | 1      | 0=Normal; 1=Curr low; 2=Overcurrent On; 3=CLPU On; 4=CLPU blocked  |
| HR1380           | CBF1:CBFP condition     | R      | 1      | 0=Normal; 1=Start; 2=ReTrip; 3=CBFP On; 4=Blocked  |
| HR1381           | TRF1:Transformer is now | R      | 1      | 0=No/LightLoad; 1=Energizing; 2=Normal load; 3=Overloaded; 4=On high overload  |
| HR1382           | DIF1:Id<x> condition    | R      | 2      | 0b=Idb> Trip; 1b=Idb> Blocked; 2b=Idi> Trip; 3b=Idi> Blocked; 4b=2nd Harm block on; 5b=5th harm block on; 6b=L1 2h On; 7b=L2 2h On; 8b=L3 2h On; 9b=L1 5h On; 10b=L2 5h On; 11b=L3 5h On (Hi-16bits) |
| HR1383           |                         |        |        | HR1382 (Lo-16bits)   |
| HR1384           | DIF1:L1 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1385           | DIF1:L2 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1386           | DIF1:L3 Condition       | R      | 1      | 0=No Diff; 1=Magnitude diff; 2=Angle diff; 3=Mag.and angle diff  |
| HR1387           | REF1:I0d> condition     | R      | 1      | 0=Normal; 1=Trip; 2=Blocked  |
| HR1388           | TOLT1:TT> condition     | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked   |
| HR1389           | TOLT1:Thermal status    | R      | 1      | 0=Light / No load; 1=High overload; 2=Overloading; 3=Load normal   |
| HR1390           | TOLT1:Temp C or F deg   | RW     | 1      | 0=C; 1=F   |
| HR1391           | TOLT1:Ambient Temp Sel  | RW     | 1      | 0=Manual Set; 1=RTD Meas   |

| Holding Register | Parameter                           | Access | Length | Info   |
|------------------|-------------------------------------|--------|--------|--|
| HR1392           | TOLT1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1393           | TOLF1:TF> condition                 | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked |
| HR1394           | TOLF1:Thermal status                | R      | 1      | 0=Light / No load; 1=High overload; 2=Overloading; 3=Load normal       |
| HR1395           | TOLF1:Temp C or F deg               | RW     | 1      | 0=C; 1=F   |
| HR1396           | TOLF1:Ambient Temp Sel              | RW     | 1      | 0=Manual Set; 1=RTD Meas   |
| HR1397           | TOLF1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1398           | TOLF1:Set or Estimate tau (t const) | RW     | 1      | 0=Set; 1=Estimate  |
| HR1399           | MST1:Motor is now                   | R      | 1      | 0=Stopped; 1=Starting; 2=Running; 3=Stalled                            |
| HR1400           | TOLM1:TM> condition                 | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On; 3=Inhibit On; 4=Trip On; 5=Blocked |
| HR1401           | TOLM1:Motor status                  | R      | 1      | 0=Stopped; 1=Stalled; 2=JustStopped; 3=Overloading; 4=Running normal   |
| HR1402           | TOLM1:Temp C or F deg               | RW     | 1      | 0=C; 1=F   |
| HR1403           | TOLM1:NPS Biasing in use            | RW     | 1      | 0=No NPS biasing; 1=NPS Biasing in use                                 |
| HR1404           | TOLM1:Time constants                | RW     | 1      | 0=Single; 1=Multiple   |
| HR1405           | TOLM1:Estimate Short TC and timings | RW     | 1      | 0=Set manually; 1=Estimate (on-line)                                   |
| HR1406           | TOLM1:T const dyn. balancing        | RW     | 1      | 0=Fixed; 1=Dynamic   |
| HR1407           | TOLM1:Dev.Temp (tmax)               | RW     | 1      | 0=A; 1=B; 2=F; 3=H; 4=Manual set                                       |
| HR1408           | TOLM1:Amb. T Selection              | RW     | 1      | 0=Manual set; 1=RTD  |
| HR1409           | TOLM1:RTD Sensor                    | R      | 1      | 0=Invalid; 1=OK  |
| HR1410           | LCR1:IS> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Set time Trip; 3=M cap Trip; 4=Blocked            |
| HR1411           | FSP1:N> condition                   | R      | 1      | 0=Normal; 1=Alarm On; 2=Inhibits; 3=Blocked                            |
| HR1412           | NUC1:I< condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1413           | MJP1:Im> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1414           | OV1:U> condition                    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1415           | OV2:U>> condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1416           | OV3:U>>> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1417           | OV4:U>>>> condition                 | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1418           | UV1:U< condition                    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1419           | UV2:U<< condition                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1420           | UV3:U<<< condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1421           | UV4:U<<<< condition                 | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Undervolt Blk On               |
| HR1422           | NOV1:U0> condition                  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR1423           | NOV1:U0> Measuring now              | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                       |



| Holding Register | Parameter                     | Access | Length | Info  |
|------------------|-------------------------------|--------|--------|---|
| HR1424           | NOV2:U0>> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1425           | NOV2:U0>> Measuring now       | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1426           | NOV3:U0>>> condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1427           | NOV3:U0>>> Measuring now      | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1428           | NOV4:U0>>>> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1429           | NOV4:U0>>>> Measuring now     | R      | 1      | 0=No U0 avail!; 1=U0Calc; 2=U3 Input; 3=U4 Input                |
| HR1430           | VUB1:U1/2 >/< condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1431           | VUB2:U1/2 >>/<< condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1432           | VUB3:U1/2 >>>/<<< condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1433           | VUB4:U1/2 >>>>/<<<< condition | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1434           | FRQC1:f> [Curr] condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1435           | FRQC1:f>> [Curr] condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1436           | FRQC1:f>>> [Curr] condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1437           | FRQC1:f>>>> [Curr] condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1438           | FRQC1:f< [Curr] condition     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1439           | FRQC1:f<< [Curr] condition    | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1440           | FRQC1:f<<< [Curr] condition   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1441           | FRQC1:f<<<< [Curr] condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1442           | FRQV1:f> condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1443           | FRQV1:f>> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1444           | FRQV1:f>>> condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1445           | FRQV1:f>>>> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1446           | FRQV1:f< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1447           | FRQV1:f<< condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1448           | FRQV1:f<<< condition          | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1449           | FRQV1:f<<<< condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1450           | DFT1:df/dt >/< (1) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1451           | DFT1:df/dt >/< (2) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1452           | DFT1:df/dt >/< (3) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1453           | DFT1:df/dt >/< (4) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1454           | DFT1:df/dt >/< (5) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1455           | DFT1:df/dt >/< (6) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1456           | DFT1:df/dt >/< (7) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1457           | DFT1:df/dt >/< (8) condition  | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1458           | GST1:Generator is now         | R      | 1      | 0=No/LightLoad; 1=Normal load; 2=Overloaded; 3=On high overload |
| HR1459           | OPW1:P> condition             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |
| HR1460           | UPW1:P< condition             | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                            |

| Holding Register | Parameter                    | Access | Length | Info  |
|------------------|------------------------------|--------|--------|---|
| HR1461           | RPW1:Prev> condition         | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1462           | SEF1:U03rd< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1463           | SEF1:U03rd< Measuring now    | R      | 1      | 0=No U0 avail!; 1=U3 Input; 2=U4 Input  |
| HR1464           | UEX1:Q< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1465           | UIM1:Z< condition            | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1466           | VOC1:lv> condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked  |
| HR1467           | VOC1:Voltage measurement     | R      | 1      | 0=Invalid U1 not avail.; 1=Ok   |
| HR1468           | VHZ1:V/Hz(1) > condition     | R      | 1      | 0=Normal; 1=Start; ; 2=Alarm; 3=Trip; 4=Blocked   |
| HR1469           | UPF1:PF< condition           | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked; 4=Alarm Start; 5=Alarm  |
| HR1470           | ARC1:I/I0 Arc> condition     | R      | 2      | 0b=Z1 Trip; 1b=Z1 Blocked; 2b=Z2 Trip; 3b=Z2 Blocked; 4b=Z3 Trip; 5b=Z3 Blocked; 6b=Z4 Trip; 7b=Z4 Blocked (Hi-16bits)          |
| HR1471           |                              |        |        | HR1470 (Lo-16bits)  |
| HR1472           | CTS1:CTS1 condition          | R      | 1      | 0=Normal; 1=Alarm; 2=Blocked  |
| HR1473           | CTS2:CTS2 condition          | R      | 1      | 0=Normal; 1=Alarm; 2=Blocked  |
| HR1474           | VTS1:VTS condition           | R      | 1      | 0=Normal; 1=Start; 2=VTLinefail; 3=VTBusfail; 4=Blocked   |
| HR1475           | VTS1:Bus voltages            | R      | 1      | 0=Bus dead; 1=Bus Live VTS Ok SEQ Ok; 2=Bus Live VTS Ok SEQ Rev; 3=Bus Live VTS Ok SEQ Undef; 4=Bus Live VTS problem            |
| HR1476           | FLX1:Fault locator condition | R      | 1      | 0=Idle; 1=Triggered; 2=Calc ready   |
| HR1477           | THD1:THD condition           | R      | 1      | 0=Normal; 1=Start; 2=Alarm; 3=Blocked   |
| HR1478           | CBW1:CBW condition           | R      | 1      | 0=Normal; 1=Alarm1 On; 2=Alarm2 On  |
| HR1479           | NJK1:U0> RECL condition      | R      | 1      | 0=Normal; 1=Requested; 2=Blocked; 3=Active; 4=BK clo cmd; 5=Bk Closed.U0> blocked   |
| HR1480           | SOF1:SOTF condition          | R      | 1      | 0=Normal; 1=Init; 2=Active; 3=Trip; 4=Blocked   |
| HR1481           | SYN1:SYN1 Condition          | R      | 2      | 0b=SYN1 Blocked; 1b=SYN1 Ok; 2b=SYN1 Bypass; 3b=SYN1 Vcond Ok; 4b=SYN1 Vdiff Ok; 5b=SYN1 Adiff Ok; 6b=SYN1 fdiff Ok (Hi-16bits) |
| HR1482           |                              |        |        | HR1481 (Lo-16bits)  |
| HR1483           | SYN1:SYN2 Condition          | R      | 2      | 0b=SYN2 Blocked; 1b=SYN2 Ok; 2b=SYN2 Bypass; 3b=SYN2 Vcond Ok; 4b=SYN2 Vdiff Ok; 5b=SYN2 Adiff Ok; 6b=SYN2 fdiff Ok (Hi-16bits) |
| HR1484           |                              |        |        | HR1483 (Lo-16bits)  |
| HR1485           | SYN1:SYN3 Condition          | R      | 2      | 0b=SYN3 Blocked; 1b=SYN3 Ok; 2b=SYN3 Bypass; 3b=SYN3 Vcond Ok; 4b=SYN3 Vdiff Ok; 5b=SYN3 Adiff Ok; 6b=SYN3 fdiff Ok (Hi-16bits) |
| HR1486           |                              |        |        | HR1485 (Lo-16bits)  |
| HR1487           | OBJ1:Object1 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1488           | OBJ2:Object2 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1489           | OBJ3:Object3 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1490           | OBJ4:Object4 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1491           | OBJ5:Object5 Breaker Status  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |

| Holding Register | Parameter                             | Access | Length | Info  |
|------------------|---------------------------------------|--------|--------|---|
| HR1492           | CIN1:Ind.1 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1493           | CIN2:Ind.2 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1494           | CIN3:Ind.3 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1495           | CIN4:Ind.4 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1496           | CIN5:Ind.5 Object Status              | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1497           | AR1:AR Status                         | R      | 2      | 0b=AR is inhibit; 1b=AR is ready; 2b=AR is locked; 3b=AR is running; 4b=AR is not running; 5b=Lock out delay is running; 6b=Reclaim time counting; 7b=Start time counting; 8b=Dead time counting; 9b=Arcing or discr time counting; 10b=Reclaim time counting; 11b=AR1 Requested; 12b=AR2 Requested; 13b=AR3 Requested; 14b=AR4 Requested; 15b=AR5 Requested; 16b=Executing Shot1; 17b=Executing Shot2; 18b=Executing Shot3; 19b=Executing Shot4; 20b=Executing Shot5; 21b=Shot Clear (Hi-16bits) |
| HR1498           |                                       |        |        | HR1497 (Lo-16bits)  |
| HR1499           | AR1:Timer active                      | R      | 1      | 0=-; 1=AR Lockout; 2=AR Reset Reclaim; 3=AR Start Delay; 4=AR Dead Time; 5=AR Discrimination; 6=AR Shot Reclaim;  |
| HR1500           | VRG1:Vreg settings condition          | R      | 2      | 0b=U>> set too low; 1b=U< set too high; 2b=U> set higher than U>>; 3b=U< set lower than U<<; 4=U>>> set too low; 5=U<<< set too high; 6=VT selection not ok (Hi-16bits)   |
| HR1501           |                                       |        |        | HR1500 (Lo-16bits)  |
| HR1502           | VRG1:Vreg condition                   | R      | 2      | 0b=Raise command on; 1b=Lower command on; 2b=Operation blocked; 3b=Output control blocked; 4b=U<<< Block on; 5b=I> block on; 6b=Tap on highlimit; 7b=Tap on lowlimit; 8b=Operation blocked; 9b=U>/< pickup on; 10b=U>>/<< pickup on; 11b=Control wait time on; 12b=Manual control on (Hi-16bits)  |
| HR1503           |                                       |        |        | HR1502 (Lo-16bits)  |
| HR1504           | VRG1:Vreg timer active                | R      | 1      | 0=-; 1=Fine tune Decrease; 2=Fine tune Increase; 3=Low set Decrease; 4=High set Decrease; 5=Instant Decrease; 6=Low set Increase; 7=High set Increase   |
| HR1505           | VRG1:Voltage meas condition           | R      | 1      | 0=Not configured; 1=System U12; 2=System U23; 3=System U31; 4=VT4 meas U12; 5=VT4 meas U23; 6=VT4 meas U31; 7=VT4 conf not ok   |
| HR1506           | EMON1:I> (50) Monitor condition       | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1507           | EMON1:I0> (50N) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1508           | EMON1:Idir> (67) Monitor condition    | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1509           | EMON1:I0dir> (67N) Monitor condition  | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1510           | EMON1:I0Int> (67NT) Monitor condition | R      | 1      | 0=Normal; 1=FLT FW; 2=FLT REV   |
| HR1511           | EMON1:U< (27) Monitor condition       | R      | 1      | 0=Normal; 1=Undervoltage; 2=No voltage  |
| HR1512           | EMON1:U0> (59N) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |
| HR1513           | EMON1:FL (21FL) Monitor condition     | R      | 1      | 0=Normal; 1=FLT detected  |

| Holding Register | Parameter                  | Access | Length | Info   |
|------------------|----------------------------|--------|--------|--|
| HR1514           | MEAS1:Meas1 IL ang. Ref    | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)   |
| HR1515           |                            |        |        | HR1514 (Lo-16bits)   |
| HR1516           | DIF1:REFHV> condition      | R      | 2      | 0b=HV REF Blocked; 1b=HV REF Trip (Hi-16bits)  |
| HR1517           |                            |        |        | HR1516 (Lo-16bits)   |
| HR1518           | DIF1:REFLV> condition      | R      | 2      | 0b=LV REF Blocked; 1b=LV REF Trip (Hi-16bits)  |
| HR1519           |                            |        |        | HR1518 (Lo-16bits)   |
| HR1520           | ALARM:Alarms 1-32          | R      | 2      | 0b=A1; 1b=A2; 2b=A3; 3b=A4; 4b=A5; 5b=A6; 6b=A7; 7b=A8; 8b=A9; 9b=A10; 10b=A11; 11b=A12; 12b=A13; 13b=A14; 14b=A15; 15b=A16; 16b=A17; 17b=A18; 18b=A19; 19b=A20; 20b=A21; 21b=A22; 22b=A23; 23b=A24; 24b=A25; 25b=A26; 26b=A27; 27b=A28; 28b=A29; 29b=A30; 30b=A31; 31b=A32 (Hi-16bits)          |
| HR1521           |                            |        |        | HR1520 (Lo-16bits)   |
| HR1522           | ALARM:Alarms 33-64         | R      | 2      | 0b=A33; 1b=A34; 2b=A35; 3b=A36; 4b=A37; 5b=A38; 6b=A39; 7b=A40; 8b=A41; 9b=A42; 10b=A43; 11b=A44; 12b=A45; 13b=A46; 14b=A47; 15b=A48; 16b=A49; 17b=A50; 18b=A51; 19b=A52; 20b=A53; 21b=A54; 22b=A55; 23b=A56; 24b=A57; 25b=A58; 26b=A59; 27b=A60; 28b=A61; 29b=A62; 30b=A63; 31b=A64 (Hi-16bits) |
| HR1523           |                            |        |        | HR1522 (Lo-16bits)   |
| HR1524           | DIAG:Configuration changed | R      | 2      | UINT32 [0...4294967295] (Hi-16bits)  |
| HR1525           |                            |        |        | HR1524 (Lo-16bits)   |
| HR1526           | RTDIN:S1 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1527           |                            |        |        | HR1526 (Lo-16bits)   |
| HR1528           | RTDIN:S2 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1529           |                            |        |        | HR1528 (Lo-16bits)   |
| HR1530           | RTDIN:S3 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1531           |                            |        |        | HR1530 (Lo-16bits)   |
| HR1532           | RTDIN:S4 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1533           |                            |        |        | HR1532 (Lo-16bits)   |
| HR1534           | RTDIN:S5 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1535           |                            |        |        | HR1534 (Lo-16bits)   |
| HR1536           | RTDIN:S6 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1537           |                            |        |        | HR1536 (Lo-16bits)   |
| HR1538           | RTDIN:S7 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1539           |                            |        |        | HR1538 (Lo-16bits)   |
| HR1540           | RTDIN:S7 Measurement mA    | R      | 2      | FLOAT [0.000...20.000] (Hi-16bits)   |
| HR1541           |                            |        |        | HR1540 (Lo-16bits)   |
| HR1542           | RTDIN:S8 Measurement       | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)  |
| HR1543           |                            |        |        | HR1542 (Lo-16bits)   |
| HR1544           | RTDIN:S8 Measurement mA    | R      | 2      | FLOAT [0.000...20.000] (Hi-16bits)   |
| HR1545           |                            |        |        | HR1544 (Lo-16bits)   |

| Holding Register | Parameter                | Access | Length | Info                                |
|------------------|--------------------------|--------|--------|-------------------------------------|
| HR1546           | RTDIN:S9 Measurement     | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1547           |                          |        |        | HR1546 (Lo-16bits)                  |
| HR1548           | RTDIN:S10 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1549           |                          |        |        | HR1548 (Lo-16bits)                  |
| HR1550           | RTDIN:S11 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1551           |                          |        |        | HR1550 (Lo-16bits)                  |
| HR1552           | RTDIN:S12 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1553           |                          |        |        | HR1552 (Lo-16bits)                  |
| HR1554           | RTDIN:S13 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1555           |                          |        |        | HR1554 (Lo-16bits)                  |
| HR1556           | RTDIN:S14 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1557           |                          |        |        | HR1556 (Lo-16bits)                  |
| HR1558           | RTDIN:S15 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1559           |                          |        |        | HR1558 (Lo-16bits)                  |
| HR1560           | RTDIN:S15 Measurement mA | R      | 2      | FLOAT [0.000...20.000] (Hi-16bits)  |
| HR1561           |                          |        |        | HR1560 (Lo-16bits)                  |
| HR1562           | RTDIN:S16 Measurement    | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1563           |                          |        |        | HR1562 (Lo-16bits)                  |
| HR1564           | RTDIN:S16 Measurement mA | R      | 2      | FLOAT [0.000...20.000] (Hi-16bits)  |
| HR1565           |                          |        |        | HR1564 (Lo-16bits)                  |
| HR1566           | RTD1:S1 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1567           |                          |        |        | HR1566 (Lo-16bits)                  |
| HR1568           | RTD1:S2 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1569           |                          |        |        | HR1568 (Lo-16bits)                  |
| HR1570           | RTD1:S3 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1571           |                          |        |        | HR1570 (Lo-16bits)                  |
| HR1572           | RTD1:S4 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1573           |                          |        |        | HR1572 (Lo-16bits)                  |
| HR1574           | RTD1:S5 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1575           |                          |        |        | HR1574 (Lo-16bits)                  |
| HR1576           | RTD1:S6 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1577           |                          |        |        | HR1576 (Lo-16bits)                  |
| HR1578           | RTD1:S7 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1579           |                          |        |        | HR1578 (Lo-16bits)                  |
| HR1580           | RTD1:S8 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1581           |                          |        |        | HR1580 (Lo-16bits)                  |
| HR1582           | RTD1:S9 Measurement(P)   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR1583           |                          |        |        | HR1582 (Lo-16bits)                  |

| Holding Register | Parameter               | Access | Length | Info                                    |
|------------------|-------------------------|--------|--------|---|
| HR1584           | RTD1:S10 Measurement(P) | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)     |
| HR1585           |                         |        |        | HR1584 (Lo-16bits)                      |
| HR1586           | RTD1:S11 Measurement(P) | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)     |
| HR1587           |                         |        |        | HR1586 (Lo-16bits)                      |
| HR1588           | RTD1:S12 Measurement(P) | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)     |
| HR1589           |                         |        |        | HR1588 (Lo-16bits)                      |
| HR1590           | RTD1:S1 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1591           |                         |        |        | HR1590 (Lo-16bits)                      |
| HR1592           | RTD1:S1 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1593           |                         |        |        | HR1592 (Lo-16bits)                      |
| HR1594           | RTD1:S2 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1595           |                         |        |        | HR1594 (Lo-16bits)                      |
| HR1596           | RTD1:S2 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1597           |                         |        |        | HR1596 (Lo-16bits)                      |
| HR1598           | RTD1:S3 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1599           |                         |        |        | HR1598 (Lo-16bits)                      |
| HR1600           | RTD1:S3 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1601           |                         |        |        | HR1600 (Lo-16bits)                      |
| HR1602           | RTD1:S4 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1603           |                         |        |        | HR1602 (Lo-16bits)                      |
| HR1604           | RTD1:S4 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1605           |                         |        |        | HR1604 (Lo-16bits)                      |
| HR1606           | RTD1:S5 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1607           |                         |        |        | HR1606 (Lo-16bits)                      |
| HR1608           | RTD1:S5 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1609           |                         |        |        | HR1608 (Lo-16bits)                      |
| HR1610           | RTD1:S6 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1611           |                         |        |        | HR1610 (Lo-16bits)                      |
| HR1612           | RTD1:S6 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1613           |                         |        |        | HR1612 (Lo-16bits)                      |
| HR1614           | RTD1:S7 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1615           |                         |        |        | HR1614 (Lo-16bits)                      |
| HR1616           | RTD1:S7 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1617           |                         |        |        | HR1616 (Lo-16bits)                      |
| HR1618           | RTD1:S8 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1619           |                         |        |        | HR1618 (Lo-16bits)                      |
| HR1620           | RTD1:S8 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1621           |                         |        |        | HR1620 (Lo-16bits)                      |

| Holding Register | Parameter                | Access | Length | Info  |
|------------------|--------------------------|--------|--------|---|
| HR1622           | RTD1:S9 ALARM1 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1623           |                          |        |        | HR1622 (Lo-16bits)                              |
| HR1624           | RTD1:S9 ALARM2 ON        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1625           |                          |        |        | HR1624 (Lo-16bits)                              |
| HR1626           | RTD1:S10 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1627           |                          |        |        | HR1626 (Lo-16bits)                              |
| HR1628           | RTD1:S10 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1629           |                          |        |        | HR1628 (Lo-16bits)                              |
| HR1630           | RTD1:S11 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1631           |                          |        |        | HR1630 (Lo-16bits)                              |
| HR1632           | RTD1:S11 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1633           |                          |        |        | HR1632 (Lo-16bits)                              |
| HR1634           | RTD1:S12 ALARM1 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1635           |                          |        |        | HR1634 (Lo-16bits)                              |
| HR1636           | VHZ1:V/Hz(2) > condition | R      | 1      | 0=Normal; 1=Start; ; 2=Alarm; 3=Trip; 4=Blocked |
| HR1637           | RTD1:S12 ALARM2 ON       | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1638           |                          |        |        | HR1637 (Lo-16bits)                              |
| HR1639           | UIM2:Z<< condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked            |
| HR1640           | RTD1:S1 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1641           |                          |        |        | HR1640 (Lo-16bits)                              |
| HR1642           | RTD1:S2 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1643           |                          |        |        | HR1642 (Lo-16bits)                              |
| HR1644           | RTD1:S3 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1645           |                          |        |        | HR1644 (Lo-16bits)                              |
| HR1646           | RTD1:S4 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1647           |                          |        |        | HR1646 (Lo-16bits)                              |
| HR1648           | RTD1:S5 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1649           |                          |        |        | HR1648 (Lo-16bits)                              |
| HR1650           | RTD1:S6 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1651           |                          |        |        | HR1650 (Lo-16bits)                              |
| HR1652           | RTD1:S7 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1653           |                          |        |        | HR1652 (Lo-16bits)                              |
| HR1654           | RTD1:S8 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1655           |                          |        |        | HR1654 (Lo-16bits)                              |
| HR1656           | RTD1:S9 MEAS INVALID     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1657           |                          |        |        | HR1656 (Lo-16bits)                              |
| HR1658           | RTD1:S10 MEAS INVALID    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)         |
| HR1659           |                          |        |        | HR1658 (Lo-16bits)                              |

| Holding Register | Parameter                  | Access | Length | Info                                    |
|------------------|----------------------------|--------|--------|---|
| HR1660           | RTD1:S11 MEAS INVALID      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1661           |                            |        |        | HR1660 (Lo-16bits)                      |
| HR1662           | RTD1:S12 MEAS INVALID      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1663           |                            |        |        | HR1662 (Lo-16bits)                      |
| HR1664           | MBIO:MBIO ModA Ch1 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1665           |                            |        |        | HR1664 (Lo-16bits)                      |
| HR1666           | MBIO:MBIO ModA Ch2 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1667           |                            |        |        | HR1666 (Lo-16bits)                      |
| HR1668           | MBIO:MBIO ModA Ch3 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1669           |                            |        |        | HR1668 (Lo-16bits)                      |
| HR1670           | MBIO:MBIO ModA Ch4 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1671           |                            |        |        | HR1670 (Lo-16bits)                      |
| HR1672           | MBIO:MBIO ModA Ch5 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1673           |                            |        |        | HR1672 (Lo-16bits)                      |
| HR1674           | MBIO:MBIO ModA Ch6 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1675           |                            |        |        | HR1674 (Lo-16bits)                      |
| HR1676           | MBIO:MBIO ModA Ch7 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1677           |                            |        |        | HR1676 (Lo-16bits)                      |
| HR1678           | MBIO:MBIO ModA Ch8 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1679           |                            |        |        | HR1678 (Lo-16bits)                      |
| HR1680           | MBIO:MBIO ModB Ch1 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1681           |                            |        |        | HR1680 (Lo-16bits)                      |
| HR1682           | MBIO:MBIO ModB Ch2 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1683           |                            |        |        | HR1682 (Lo-16bits)                      |
| HR1684           | MBIO:MBIO ModB Ch3 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1685           |                            |        |        | HR1684 (Lo-16bits)                      |
| HR1686           | MBIO:MBIO ModB Ch4 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1687           |                            |        |        | HR1686 (Lo-16bits)                      |
| HR1688           | MBIO:MBIO ModB Ch5 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1689           |                            |        |        | HR1688 (Lo-16bits)                      |
| HR1690           | MBIO:MBIO ModB Ch6 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1691           |                            |        |        | HR1690 (Lo-16bits)                      |
| HR1692           | MBIO:MBIO ModB Ch7 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1693           |                            |        |        | HR1692 (Lo-16bits)                      |
| HR1694           | MBIO:MBIO ModB Ch8 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1695           |                            |        |        | HR1694 (Lo-16bits)                      |
| HR1696           | MBIO:MBIO ModC Ch1 Invalid | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1697           |                            |        |        | HR1696 (Lo-16bits)                      |



| Holding Register | Parameter                             | Access | Length | Info                                      |
|------------------|---------------------------------------|--------|--------|---|
| HR1698           | MBIO:MBIO ModC Ch2 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1699           |                                       |        |        | HR1698 (Lo-16bits)                        |
| HR1700           | MBIO:MBIO ModC Ch3 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1701           |                                       |        |        | HR1700 (Lo-16bits)                        |
| HR1702           | MBIO:MBIO ModC Ch4 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1703           |                                       |        |        | HR1702 (Lo-16bits)                        |
| HR1704           | MBIO:MBIO ModC Ch5 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1705           |                                       |        |        | HR1704 (Lo-16bits)                        |
| HR1706           | MBIO:MBIO ModC Ch6 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1707           |                                       |        |        | HR1706 (Lo-16bits)                        |
| HR1708           | MBIO:MBIO ModC Ch7 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1709           |                                       |        |        | HR1708 (Lo-16bits)                        |
| HR1710           | MBIO:MBIO ModC Ch8 Invalid            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1711           |                                       |        |        | HR1710 (Lo-16bits)                        |
| HR1712           | OBJ6:Object6 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1713           | OBJ7:Object7 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1714           | OBJ8:Object8 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1715           | OBJ9:Object9 Breaker Status           | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1716           | OBJ10:Object10 Breaker Status         | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad   |
| HR1717           | VRG1:Voltage now                      | R      | 2      | FLOAT [0.00...140.00] (Hi-16bits)         |
| HR1718           |                                       |        |        | HR1717 (Lo-16bits)                        |
| HR1719           | VRG1:Voltage difference to set target | R      | 2      | FLOAT [-100.00...140.00] (Hi-16bits)      |
| HR1720           |                                       |        |        | HR1719 (Lo-16bits)                        |
| HR1721           | VRG1:Tap location now (- 0 +)         | R      | 2      | FLOAT [-30...30] (Hi-16bits)              |
| HR1722           |                                       |        |        | HR1721 (Lo-16bits)                        |
| HR1723           | VRG1:Absolute tap location            | R      | 2      | FLOAT [0...50] (Hi-16bits)                |
| HR1724           |                                       |        |        | HR1723 (Lo-16bits)                        |
| HR1725           | VRG1:Control mode                     | R      | 1      | 0=Auto; 1=Manual (loc&rem)                |
| HR1726           | VRG1:Remote tap control input         | RW     | 1      | 0=Stop; 1=Lower; 2=Higher                 |
| HR1727           | VJP1:<DELTA><alpha> > condition       | R      | 1      | 0=Normal; 1=Blocked;2=Trip; 3=Alarm       |
| HR1728           | LOGIC1:Logic out 1-32                 | RW     | 2      | UINT32 [0...4294967295] (Hi-16bits)       |
| HR1729           |                                       |        |        | HR1728 (Lo-16bits)                        |
| HR1730           | PGS1:PS1 >/< condition                | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1731           | VJP1:Voltage meas selected            | R      | 1      | 0=Selection Ok; 1=Selection not available |
| HR1732           | PGS1:PS2 >/< condition                | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |
| HR1733           | PGS1:PS3 >/< condition                | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked      |

| Holding Register | Parameter                     | Access | Length | Info   |
|------------------|-------------------------------|--------|--------|--|
| HR1734           | PGS1:PS4 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1735           | PGS1:PS5 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1736           | PGS1:PS6 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1737           | PGS1:PS7 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1738           | PGS1:PS8 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1739           | PGS1:PS9 >/< condition        | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1740           | PGS1:PS10 >/< condition       | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked         |
| HR1741           | ASC1:Curve1 Input             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1742           |                               |        |        | HR1741 (Lo-16bits)                           |
| HR1743           | ASC1:Curve1 Output            | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1744           |                               |        |        | HR1743 (Lo-16bits)                           |
| HR1745           | ASC1:Curve2 Input             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1746           |                               |        |        | HR1745 (Lo-16bits)                           |
| HR1747           | ASC1:Curve2 Output            | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1748           |                               |        |        | HR1747 (Lo-16bits)                           |
| HR1749           | ASC1:Curve3 Input             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1750           |                               |        |        | HR1749 (Lo-16bits)                           |
| HR1751           | ASC1:Curve3 Output            | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1752           |                               |        |        | HR1751 (Lo-16bits)                           |
| HR1753           | ASC1:Curve4 Input             | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1754           |                               |        |        | HR1753 (Lo-16bits)                           |
| HR1755           | ASC1:Curve4 Output            | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR1756           |                               |        |        | HR1755 (Lo-16bits)                           |
| HR1757           | GMAG:Command AVR (remote)     | RW     | 1      | 0=Off; 1=On                                  |
| HR1758           | GMAG:Command FCR (remote)     | RW     | 1      | 0=Off; 1=On                                  |
| HR1759           | GMAG:Command MVAR (remote)    | RW     | 1      | 0=Off; 1=On                                  |
| HR1760           | GMAG:Command PF (remote)      | RW     | 1      | 0=Off; 1=On                                  |
| HR1761           | GMAG:Unload Q (remote)        | RW     | 1      | 0=Off; 1=On                                  |
| HR1762           | GMAG:Reset (remote)           | RW     | 1      | 0=Off; 1=On                                  |
| HR1763           | GMAG:AVR Ref execute (remote) | RW     | 1      | 0=Off; 1=On                                  |
| HR1764           | GMAG:AVR Ref value (remote)   | RW     | 2      | FLOAT [0...450000] (Hi-16bits)               |
| HR1765           |                               |        |        | HR1764 (Lo-16bits)                           |
| HR1766           | GMAG:FCR Ref execute (remote) | RW     | 1      | 0=Off; 1=On                                  |
| HR1767           | GMAG:FCR Ref value (remote)   | RW     | 2      | FLOAT [0.00...100.00] (Hi-16bits)            |
| HR1768           |                               |        |        | HR1767 (Lo-16bits)                           |

| Holding Register | Parameter                              | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR1769           | GMAG:MVar Ref execute (remote)         | RW     | 1      | 0=Off; 1=On  |
| HR1770           | GMAG:MVar Ref value (MVar) (remote)    | RW     | 2      | FLOAT [-1000.0000...1000.0000] (Hi-16bits)   |
| HR1771           |  |        |        | HR1770 (Lo-16bits)   |
| HR1772           | GMAG:PF Ref execute (remote)           | RW     | 1      | 0=Off; 1=On  |
| HR1773           | GMAG:PF Ref value (remote)             | RW     | 2      | FLOAT [-1.00...1.00] (Hi-16bits)   |
| HR1774           |  |        |        | HR1773 (Lo-16bits)   |
| HR1775           | GMAG:Open FB command (remote)          | RW     | 1      | 0=Off; 1=On  |
| HR1776           | GMAG:Close FB command (remote)         | RW     | 1      | 0=Off; 1=On  |
| HR1777           | GMAG:AVR speed 90 (remote)             | RW     | 1      | 0=Off; 1=On  |
| HR1778           | GMAG:Ind GB closed (remote)            | RW     | 1      | 0=Off; 1=On  |
| HR1779           | GMAG:Island mode (remote)              | RW     | 1      | 0=Off; 1=On  |
| HR1780           | GMAG:Command voltage matching (remote) | RW     | 1      | 0=Off; 1=On  |
| HR1781           | GMAG:Grid voltage (remote)             | RW     | 2      | FLOAT [0.00...500.00] (Hi-16bits)  |
| HR1782           |  |        |        | HR1781 (Lo-16bits)   |
| HR1783           | GMAG:AVR Ref start (remote)            | RW     | 1      | 0=Off; 1=On  |
| HR1784           | GMAG:Field current (remote)            | R      | 2      | FLOAT [-500.00...500.00] (Hi-16bits)   |
| HR1785           |  |        |        | HR1784 (Lo-16bits)   |
| HR1786           | GMAG:AVR Ref actual (remote)           | R      | 2      | FLOAT [-500.00...500.00] (Hi-16bits)   |
| HR1787           |  |        |        | HR1786 (Lo-16bits)   |
| HR1788           | GMAG:FCR Ref actual (remote)           | R      | 2      | FLOAT [-500.00...500.00] (Hi-16bits)   |
| HR1789           |  |        |        | HR1788 (Lo-16bits)   |
| HR1790           | GMAG:MVAR Ref actual (remote)          | R      | 2      | FLOAT [-500.00...500.00] (Hi-16bits)   |
| HR1791           |  |        |        | HR1790 (Lo-16bits)   |
| HR1792           | GMAG:PF Ref actual (remote)            | R      | 2      | FLOAT [-500.00...500.00] (Hi-16bits)   |
| HR1793           |  |        |        | HR1792 (Lo-16bits)   |
| HR1794           | GMAG:Mode MVAR (remote)                | R      | 1      | 0=Off; 1=On  |
| HR1795           | GMAG:Mode PF (remote)                  | R      | 1      | 0=Off; 1=On  |
| HR1796           | DIGI:DIs                               | R      | 2      | 0b=DI65; 1b=DI66; 2b=DI67; 3b=DI68; 4b=DI69; 5b=DI70; 6b=DI71; 7b=DI72; 8b=DI73; 9b=DI74; 10b=DI75; 11b=DI76; 12b=DI77; 13b=DI78; 14b=DI79; 15b=DI80; 16b=DI81; 17b=DI82; 18b=DI83; 19b=DI84; 20b=DI85; 21b=DI86; 22b=DI87; 23b=DI88; 24b=DI89; 25b=DI90; 26b=DI91; 27b=DI92; 28b=DI93; 29b=DI94; 30b=DI95; 31b=DI96 (Hi-16bits) |
| HR1797           |  |        |        | HR1796 (Lo-16bits)   |

| Holding Register | Parameter  | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR1798           | DIGI:DIs   | R      | 2      | 0b=DI97; 1b=DI98; 2b=DI99; 3b=DI100; 4b=DI101; 5b=DI102; 6b=DI103; 7b=DI104; 8b=DI105; 9b=DI106; 10b=DI107; 11b=DI108; 12b=DI109; 13b=DI110; 14b=DI111; 15b=DI112; 16b=DI113; 17b=DI114; 18b=DI115; 19b=DI116; 20b=DI117; 21b=DI118; 22b=DI119; 23b=DI120; 24b=DI121; 25b=DI122; 26b=DI123; 27b=DI124; 28b=DI125; 29b=DI126; 30b=DI127; 31b=DI128 (Hi-16bits) |
| HR1799           |  |        |        | HR1798 (Lo-16bits)  |
| HR1800           | RELE:Outputs status                                | R      | 2      | 0b=O1; 1b=O2; 2b=O3; 3b=O4; 4b=O5; 5b=O6; 6b=O7; 7b=O8; 8b=O9; 9b=O10; 10b=O11; 11b=O12; 12b=O13; 13b=O14; 14b=O15 (Hi-16bits)  |
| HR1801           |  |        |        | HR1800 (Lo-16bits)  |
| HR1802           | GMAG:Command Excitation to Remote control          | RW     | 1      | 0=Off; 1=On   |
| HR1803           | FREQS:f atm. Display (when not measurable is 0Hz)  | R      | 2      | FLOAT [0.000...75.000] (Hi-16bits)  |
| HR1804           |  |        |        | HR1803 (Lo-16bits)  |
| HR1805           | GMAG:Command Excitation to Remote control Received | R      | 1      | 0=No; 1=Yes   |
| HR1806           | GMAG:Command AVR (remote) Received                 | R      | 1      | 0=No; 1=Yes   |
| HR1807           | GMAG:Command FCR (remote) Received                 | R      | 1      | 0=No; 1=Yes   |
| HR1808           | GMAG:Command MVAR (remote) Received                | R      | 1      | 0=No; 1=Yes   |
| HR1809           | GMAG:Command PF (remote) Received                  | R      | 1      | 0=No; 1=Yes   |
| HR1810           | GMAG:Reset remote Received indications             | RW     | 1      | 0=-; 1=Reset  |
| HR1811           | GMAG:GMAG FCR Mode                                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1812           |  |        |        | HR1811 (Lo-16bits)  |
| HR1813           | GMAG:GMAG AVR Mode                                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR1814           |  |        |        | HR1813 (Lo-16bits)  |
| HR1815           | GMAG:Unload Q (remote) Received                    | R      | 1      | 0=No; 1=Yes   |
| HR1816           | GMAG:Reset (remote) Received                       | R      | 1      | 0=No; 1=Yes   |
| HR1817           | GMAG:AVR Ref execute (remote) Received             | R      | 1      | 0=No; 1=Yes   |
| HR1818           | GMAG:AVR Ref value (remote) Received               | R      | 2      | FLOAT [0...450000] (Hi-16bits)  |
| HR1819           |  |        |        | HR1818 (Lo-16bits)  |
| HR1820           | GMAG:FCR Ref execute (remote) Received             | R      | 1      | 0=No; 1=Yes   |
| HR1821           | GMAG:FCR Ref value (remote) Received               | R      | 2      | FLOAT [0.00...100.00] (Hi-16bits)   |
| HR1822           |  |        |        | HR1821 (Lo-16bits)  |

| Holding Register | Parameter                                       | Access | Length | Info                                   |
|------------------|---|--------|--------|--|
| HR1823           | GMAG:MVar Ref execute (remote) Received         | R      | 1      | 0=No; 1=Yes                            |
| HR1824           | GMAG:MVar Ref value (remote) Received           | R      | 2      | FLOAT [-1000.00...1000.00] (Hi-16bits) |
| HR1825           |   |        |        | HR1824 (Lo-16bits)                     |
| HR1826           | GMAG:PF Ref execute (remote) Received           | R      | 1      | 0=No; 1=Yes                            |
| HR1827           | GMAG:PF Ref value (remote) Received             | R      | 2      | FLOAT [-1.00...1.00] (Hi-16bits)       |
| HR1828           |   |        |        | HR1827 (Lo-16bits)                     |
| HR1829           | GMAG:Open FB command (remote) Received          | R      | 1      | 0=No; 1=Yes                            |
| HR1830           | GMAG:Close FB command (remote) Received         | R      | 1      | 0=No; 1=Yes                            |
| HR1831           | GMAG:AVR speed 90 (remote) Received             | R      | 1      | 0=No; 1=Yes                            |
| HR1832           | GMAG:Ind GB closed (remote) Received            | R      | 1      | 0=No; 1=Yes                            |
| HR1833           | GMAG:Island mode (remote) Received              | R      | 1      | 0=No; 1=Yes                            |
| HR1834           | GMAG:Command voltage matching (remote) Received | R      | 1      | 0=No; 1=Yes                            |
| HR1835           | GMAG:Grid voltage (remote) Received             | R      | 2      | FLOAT [0.00...500.00] (Hi-16bits)      |
| HR1836           |   |        |        | HR1835 (Lo-16bits)                     |
| HR1837           | GMAG:AVR Ref start (remote) Received            | R      | 1      | 0=No; 1=Yes                            |
| HR1838           | IAE1: >U< I.A.E. condition                      | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked   |
| HR1839           | GSYN:Synchronizer mode                          | RW     | 1      | 0=Disabled; 1=Activated                |
| HR1840           | GSYN:Magnitude difference                       | R      | 2      | FLOAT [-200.000...200.000] (Hi-16bits) |
| HR1841           |   |        |        | HR1840 (Lo-16bits)                     |
| HR1842           | GSYN:Frequency difference                       | R      | 2      | FLOAT [-100.000...100.000] (Hi-16bits) |
| HR1843           |   |        |        | HR1842 (Lo-16bits)                     |
| HR1844           | GSYN:Angle difference                           | R      | 2      | FLOAT [-360.000...360.000] (Hi-16bits) |
| HR1845           |   |        |        | HR1844 (Lo-16bits)                     |
| HR1846           | GSYN:Start Synchronizer                         | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits) |
| HR1847           |   |        |        | HR1846 (Lo-16bits)                     |
| HR1848           | GSYN:Stop Synchronizer                          | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits) |
| HR1849           |   |        |        | HR1848 (Lo-16bits)                     |
| HR1850           | GSYN:Block and Interrupt Synchronizing          | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits) |
| HR1851           |   |        |        | HR1850 (Lo-16bits)                     |
| HR1852           | GSYN:Breaker Closed                             | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits) |
| HR1853           |   |        |        | HR1852 (Lo-16bits)                     |

| Holding Register | Parameter                                | Access | Length | Info                                    |
|------------------|--|--------|--------|---|
| HR1854           | GSYN:GSYN Running                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1855           |  |        |        | HR1854 (Lo-16bits)                      |
| HR1856           | GSYN:GSYN Increase Voltage               | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1857           |  |        |        | HR1856 (Lo-16bits)                      |
| HR1858           | GSYN:GSYN Decrease Voltage               | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1859           |  |        |        | HR1858 (Lo-16bits)                      |
| HR1860           | GSYN:GSYN Increase Frequency             | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1861           |  |        |        | HR1860 (Lo-16bits)                      |
| HR1862           | GSYN:GSYN Decrease Frequency             | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1863           |  |        |        | HR1862 (Lo-16bits)                      |
| HR1864           | GSYN:GSYN Breaker Close Pulse            | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1865           |  |        |        | HR1864 (Lo-16bits)                      |
| HR1866           | GSYN:GSYN Long Sync Time                 | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1867           |  |        |        | HR1866 (Lo-16bits)                      |
| HR1868           | GSYN:Magnitude difference fine tune      | RW     | 2      | FLOAT [-200.000...200.000] (Hi-16bits)  |
| HR1869           |  |        |        | HR1868 (Lo-16bits)                      |
| HR1870           | GSYN:Frequency difference fine tune      | RW     | 2      | FLOAT [-100.000...100.000] (Hi-16bits)  |
| HR1871           |  |        |        | HR1870 (Lo-16bits)                      |
| HR1872           | GSYN:Angle difference fine tune          | RW     | 2      | FLOAT [-360.00...360.00] (Hi-16bits)    |
| HR1873           |  |        |        | HR1872 (Lo-16bits)                      |
| HR1874           | GSYN:GSYN Blocked                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1875           |  |        |        | HR1874 (Lo-16bits)                      |
| HR1876           | GSYN:GSYN Voltage Mag.Difference Ok      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1877           |  |        |        | HR1876 (Lo-16bits)                      |
| HR1878           | GSYN:GSYN Voltage Freq.Difference Ok     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1879           |  |        |        | HR1878 (Lo-16bits)                      |
| HR1880           | GSYN:GSYN Voltage Ang.Difference Ok      | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1881           |  |        |        | HR1880 (Lo-16bits)                      |
| HR1882           | GSYN:Magnitude difference on closing BRK | R      | 2      | FLOAT [-200.000...200.000] (Hi-16bits)  |
| HR1883           |  |        |        | HR1882 (Lo-16bits)                      |
| HR1884           | GSYN:Frequency difference on closing BRK | R      | 2      | FLOAT [-100.000...100.000] (Hi-16bits)  |
| HR1885           |  |        |        | HR1884 (Lo-16bits)                      |

| Holding Register | Parameter   | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR1886           | GSYN:Angle difference on closing BRK                              | R      | 2      | FLOAT [-360.000...360.000] (Hi-16bits)           |
| HR1887           |   |        |        | HR1886 (Lo-16bits)                               |
| HR1888           | GSYN:Synchronizing time left                                      | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1889           |   |        |        | HR1888 (Lo-16bits)                               |
| HR1890           | VREC:Measurement value recorder mode                              | RW     | 1      | 0=Disabled; 1=Activated                          |
| HR1891           | VREC:Scale current values to primary                              | RW     | 1      | 0=No; 1=Yes                                      |
| HR1892           | VREC:Trigger register to memory                                   | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)           |
| HR1893           |   |        |        | HR1892 (Lo-16bits)                               |
| HR1894           | VREC:Record fault types (Overcurrent & Voltage Over/Under) faults | RW     | 1      | 0=No; 1=Yes                                      |
| HR1895           | VREC:VREC Magnitude 1   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1896           |   |        |        | HR1895 (Lo-16bits)                               |
| HR1897           | VREC:VREC Magnitude 2   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1898           |   |        |        | HR1897 (Lo-16bits)                               |
| HR1899           | VREC:VREC Magnitude 3   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1900           |   |        |        | HR1899 (Lo-16bits)                               |
| HR1901           | VREC:VREC Magnitude 4   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1902           |   |        |        | HR1901 (Lo-16bits)                               |
| HR1903           | VREC:VREC Magnitude 5   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1904           |   |        |        | HR1903 (Lo-16bits)                               |
| HR1905           | VREC:VREC Magnitude 6   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1906           |   |        |        | HR1905 (Lo-16bits)                               |
| HR1907           | VREC:VREC Magnitude 7   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1908           |   |        |        | HR1907 (Lo-16bits)                               |
| HR1909           | VREC:VREC Magnitude 8   | R      | 2      | FLOAT [0.000...1800.000] (Hi-16bits)             |
| HR1910           |   |        |        | HR1909 (Lo-16bits)                               |
| HR1911           | RTB:Measurement value recorder mode                               | RW     | 1      | 0=Disabled; 1=Activated                          |
| HR1912           | RTB:Scale current values to primary                               | RW     | 1      | 0=No; 1=Yes                                      |
| HR1913           | RTB:Magnitude 1   | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1914           |   |        |        | HR1913 (Lo-16bits)                               |
| HR1915           | RTB:Magnitude 2   | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1916           |   |        |        | HR1915 (Lo-16bits)                               |
| HR1917           | RTB:Magnitude 3   | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1918           |   |        |        | HR1917 (Lo-16bits)                               |
| HR1919           | RTB:Magnitude 4   | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |

| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR1920           |   |        |        | HR1919 (Lo-16bits)                               |
| HR1921           | RTB:Magnitude 5                           | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1922           |   |        |        | HR1921 (Lo-16bits)                               |
| HR1923           | RTB:Magnitude 6                           | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1924           |   |        |        | HR1923 (Lo-16bits)                               |
| HR1925           | RTB:Magnitude 7                           | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1926           |   |        |        | HR1925 (Lo-16bits)                               |
| HR1927           | RTB:Magnitude 8                           | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1928           |   |        |        | HR1927 (Lo-16bits)                               |
| HR1929           | AOUT:mA In Channel 1                      | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1930           |   |        |        | HR1929 (Lo-16bits)                               |
| HR1931           | AOUT:mA In Channel 2                      | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1932           |   |        |        | HR1931 (Lo-16bits)                               |
| HR1933           | AOUT:mA Out Channel 1 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1934           |   |        |        | HR1933 (Lo-16bits)                               |
| HR1935           | AOUT:mA Out Channel 1 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1936           |   |        |        | HR1935 (Lo-16bits)                               |
| HR1937           | AOUT:mA Out Channel 2 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1938           |   |        |        | HR1937 (Lo-16bits)                               |
| HR1939           | AOUT:mA Out Channel 2 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1940           |   |        |        | HR1939 (Lo-16bits)                               |
| HR1941           | AOUT:mA Out Channel 3 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1942           |   |        |        | HR1941 (Lo-16bits)                               |
| HR1943           | AOUT:mA Out Channel 3 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1944           |   |        |        | HR1943 (Lo-16bits)                               |
| HR1945           | AOUT:mA Out Channel 4 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1946           |   |        |        | HR1945 (Lo-16bits)                               |
| HR1947           | AOUT:mA Out Channel 4 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1948           |   |        |        | HR1947 (Lo-16bits)                               |
| HR1949           | AOUT:mA Out Channel 5 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1950           |   |        |        | HR1949 (Lo-16bits)                               |
| HR1951           | AOUT:mA Out Channel 5 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |



| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR1952           |   |        |        | HR1951 (Lo-16bits)                               |
| HR1953           | AOUT:mA Out Channel 6 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1954           |   |        |        | HR1953 (Lo-16bits)                               |
| HR1955           | AOUT:mA Out Channel 6 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1956           |   |        |        | HR1955 (Lo-16bits)                               |
| HR1957           | AOUT:mA Out Channel 7 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1958           |   |        |        | HR1957 (Lo-16bits)                               |
| HR1959           | AOUT:mA Out Channel 7 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1960           |   |        |        | HR1959 (Lo-16bits)                               |
| HR1961           | AOUT:mA Out Channel 8 Input Magnitude now | R      | 2      | FLOAT [-10000000.000...10000000.000] (Hi-16bits) |
| HR1962           |   |        |        | HR1961 (Lo-16bits)                               |
| HR1963           | AOUT:mA Out Channel 8 Outputs now         | R      | 2      | FLOAT [0...24.0000] (Hi-16bits)                  |
| HR1964           |   |        |        | HR1963 (Lo-16bits)                               |
| HR1965           | RTD1:S13 Measurement(P)                   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)              |
| HR1966           |   |        |        | HR1965 (Lo-16bits)                               |
| HR1967           | RTD1:S14 Measurement(P)                   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)              |
| HR1968           |   |        |        | HR1967 (Lo-16bits)                               |
| HR1969           | RTD1:S15 Measurement(P)                   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)              |
| HR1970           |   |        |        | HR1969 (Lo-16bits)                               |
| HR1971           | RTD1:S16 Measurement(P)                   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)              |
| HR1972           |   |        |        | HR1971 (Lo-16bits)                               |
| HR1973           | RTD1:S13 ALARM1 ON                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1974           |   |        |        | HR1973 (Lo-16bits)                               |
| HR1975           | RTD1:S13 ALARM2 ON                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1976           |   |        |        | HR1975 (Lo-16bits)                               |
| HR1977           | RTD1:S13 MEAS INVALID                     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1978           |   |        |        | HR1977 (Lo-16bits)                               |
| HR1979           | RTD1:S14 ALARM1 ON                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1980           |   |        |        | HR1979 (Lo-16bits)                               |
| HR1981           | RTD1:S14 ALARM2 ON                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1982           |   |        |        | HR1981 (Lo-16bits)                               |
| HR1983           | RTD1:S14 MEAS INVALID                     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1984           |   |        |        | HR1983 (Lo-16bits)                               |
| HR1985           | RTD1:S15 ALARM1 ON                        | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)          |
| HR1986           |   |        |        | HR1985 (Lo-16bits)                               |

| Holding Register | Parameter             | Access | Length | Info                                    |
|------------------|-----------------------|--------|--------|---|
| HR1987           | RTD1:S15 ALARM2 ON    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1988           |                       |        |        | HR1987 (Lo-16bits)                      |
| HR1989           | RTD1:S15 MEAS INVALID | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1990           |                       |        |        | HR1989 (Lo-16bits)                      |
| HR1991           | RTD1:S16 ALARM1 ON    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1992           |                       |        |        | HR1991 (Lo-16bits)                      |
| HR1993           | RTD1:S16 ALARM2 ON    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1994           |                       |        |        | HR1993 (Lo-16bits)                      |
| HR1995           | RTD1:S16 MEAS INVALID | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits) |
| HR1996           |                       |        |        | HR1995 (Lo-16bits)                      |
| HR1997           | RTDIN:S1 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR1998           |                       |        |        | HR1997 (Lo-16bits)                      |
| HR1999           | RTDIN:S2 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2000           |                       |        |        | HR1999 (Lo-16bits)                      |
| HR2001           | RTDIN:S3 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2002           |                       |        |        | HR2001 (Lo-16bits)                      |
| HR2003           | RTDIN:S4 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2004           |                       |        |        | HR2003 (Lo-16bits)                      |
| HR2005           | RTDIN:S5 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2006           |                       |        |        | HR2005 (Lo-16bits)                      |
| HR2007           | RTDIN:S6 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2008           |                       |        |        | HR2007 (Lo-16bits)                      |
| HR2009           | RTDIN:S7 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2010           |                       |        |        | HR2009 (Lo-16bits)                      |
| HR2011           | RTDIN:S8 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2012           |                       |        |        | HR2011 (Lo-16bits)                      |
| HR2013           | RTDIN:S9 Resistance   | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2014           |                       |        |        | HR2013 (Lo-16bits)                      |
| HR2015           | RTDIN:S10 Resistance  | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2016           |                       |        |        | HR2015 (Lo-16bits)                      |
| HR2017           | RTDIN:S11 Resistance  | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2018           |                       |        |        | HR2017 (Lo-16bits)                      |
| HR2019           | RTDIN:S12 Resistance  | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2020           |                       |        |        | HR2019 (Lo-16bits)                      |
| HR2021           | RTDIN:S13 Resistance  | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2022           |                       |        |        | HR2021 (Lo-16bits)                      |
| HR2023           | RTDIN:S14 Resistance  | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)        |
| HR2024           |                       |        |        | HR2023 (Lo-16bits)                      |

| Holding Register | Parameter   | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2025           | RTDIN:S15 Resistance                                      | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)                                       |
| HR2026           |   |        |        | HR2025 (Lo-16bits)   |
| HR2027           | RTDIN:S16 Resistance                                      | R      | 2      | FLOAT [0...4000.000] (Hi-16bits)                                       |
| HR2028           |   |        |        | HR2027 (Lo-16bits)   |
| HR2029           | GSYN:Estimated BRK Closing time                           | R      | 2      | FLOAT [0.000...360.000] (Hi-16bits)                                    |
| HR2030           |   |        |        | HR2029 (Lo-16bits)   |
| HR2031           | GSYN:Networks rotating time                               | R      | 2      | FLOAT [0.000...360.000] (Hi-16bits)                                    |
| HR2032           |   |        |        | HR2031 (Lo-16bits)   |
| HR2033           | GSYN:Networks placement atm                               | R      | 2      | FLOAT [-360.000...360.000] (Hi-16bits)                                 |
| HR2034           |   |        |        | HR2033 (Lo-16bits)   |
| HR2035           | GMAG:Read MVar Ref from                                   | RW     | 1      | 0=Value from comm Bus; 1=Value from AI                                 |
| HR2036           | GMAG:MVar Ref selection                                   | RW     | 1      | 0=Scaled input 1; 1=Scaled input 2; 2=Scaled input 3; 3=Scaled input 4 |
| HR2037           | GMAG:MVar Ref change threshold (AI)                       | RW     | 2      | FLOAT [0...50.0] (Hi-16bits)   |
| HR2038           |   |        |        | HR2037 (Lo-16bits)   |
| HR2039           | GMAG:Update MVar Ref automatically when threshold exceeds | RW     | 1      | 0=No; 1=Yes  |
| HR2040           | PWR1:PQS>/< condition                                     | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR2041           | PWR2:PQS>>/<< condition                                   | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR2042           | PWR3:PQS>>>/<<< condition                                 | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR2043           | PWR4:PQS>>>>/<<<< condition                               | R      | 1      | 0=Normal; 1=Start; 2=Trip; 3=Blocked                                   |
| HR2044           | CIN6:Ind.6 Object Status                                  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2045           | CIN7:Ind.7 Object Status                                  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2046           | CIN8:Ind.8 Object Status                                  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2047           | CIN9:Ind.9 Object Status                                  | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2048           | CIN10:Ind.10 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2049           | CIN11:Ind.11 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2050           | CIN12:Ind.12 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2051           | CIN13:Ind.13 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2052           | CIN14:Ind.14 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2053           | CIN15:Ind.15 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2054           | CIN16:Ind.16 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2055           | CIN17:Ind.17 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2056           | CIN18:Ind.18 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2057           | CIN19:Ind.19 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |
| HR2058           | CIN20:Ind.20 Object Status                                | R      | 1      | 0=Intermediate; 1=Open; 2=Closed; 3=Bad                                |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2059           | RHC1:Counter is now                      | R      | 1      | 0=Idle; 1=Counting   |
| HR2060           | RHC1:Running hours                       | RW     | 2      | UINT32 [0...4294967295] (Hi-16bits)  |
| HR2061           |  |        |        | HR2060 (Lo-16bits)   |
| HR2062           | GST1:Generating time (Running hours)     | R      | 2      | UINT32 [0...4294967295] (Hi-16bits)  |
| HR2063           |  |        |        | HR2062 (Lo-16bits)   |
| HR2064           | NOC1:l> Last fault end with              | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2065           | NOC1:l> Last fault type                  | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |
| HR2066           | NOC1:l> Last fault IA current (pri)      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2067           |  |        |        | HR2066 (Lo-16bits)   |
| HR2068           | NOC1:l> Last fault IB current (pri)      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2069           |  |        |        | HR2068 (Lo-16bits)   |
| HR2070           | NOC1:l> Last fault IC current (pri)      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2071           |  |        |        | HR2070 (Lo-16bits)   |
| HR2072           | NOC1:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2073           |  |        |        | HR2072 (Lo-16bits)   |
| HR2074           | NOC1:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2075           | NOC1:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2076           |  |        |        | HR2075 (Lo-16bits)   |
| HR2077           | NOC1:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2078           | NOC1:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2079           | NOC1:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2080           | NOC1:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2081           | NOC1:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2082           |  |        |        | HR2081 (Lo-16bits)   |
| HR2083           | NOC1:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2084           |  |        |        | HR2083 (Lo-16bits)   |
| HR2085           | NOC1:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2086           |  |        |        | HR2085 (Lo-16bits)   |
| HR2087           | NOC1:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2088           |  |        |        | HR2087 (Lo-16bits)   |
| HR2089           | NOC1>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2090           | NOC1:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2091           | NOC2:l>> Last fault end with             | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2092           | NOC2:l>> Last fault type                 | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |
| HR2093           | NOC2:l>> Last fault IA current (pri)     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2094           |  |        |        | HR2093 (Lo-16bits)   |
| HR2095           | NOC2:l>> Last fault IB current (pri)     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2096           |  |        |        | HR2095 (Lo-16bits)   |
| HR2097           | NOC2:l>> Last fault IC current (pri)     | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2098           |  |        |        | HR2097 (Lo-16bits)   |
| HR2099           | NOC2:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2100           |  |        |        | HR2099 (Lo-16bits)   |
| HR2101           | NOC2:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2102           | NOC2:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2103           |  |        |        | HR2102 (Lo-16bits)   |
| HR2104           | NOC2:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2105           | NOC2:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2106           | NOC2:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2107           | NOC2:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2108           | NOC2:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2109           |  |        |        | HR2108 (Lo-16bits)   |
| HR2110           | NOC2:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2111           |  |        |        | HR2110 (Lo-16bits)   |
| HR2112           | NOC2:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2113           |  |        |        | HR2112 (Lo-16bits)   |
| HR2114           | NOC2:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2115           |  |        |        | HR2114 (Lo-16bits)   |
| HR2116           | NOC2>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2117           | NOC2:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2118           | NOC3:l>>> Last fault end with            | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2119           | NOC3:l>>> Last fault type                | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |
| HR2120           | NOC3:l>>> Last fault IA current (pri)    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2121           |  |        |        | HR2120 (Lo-16bits)   |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2122           | NOC3:l>>> Last fault IB current (pri)    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2123           |  |        |        | HR2122 (Lo-16bits)   |
| HR2124           | NOC3:l>>> Last fault IC current (pri)    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2125           |  |        |        | HR2124 (Lo-16bits)   |
| HR2126           | NOC3:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2127           |  |        |        | HR2126 (Lo-16bits)   |
| HR2128           | NOC3:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2129           | NOC3:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2130           |  |        |        | HR2129 (Lo-16bits)   |
| HR2131           | NOC3:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2132           | NOC3:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2133           | NOC3:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2134           | NOC3:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2135           | NOC3:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2136           |  |        |        | HR2135 (Lo-16bits)   |
| HR2137           | NOC3:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2138           |  |        |        | HR2137 (Lo-16bits)   |
| HR2139           | NOC3:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2140           |  |        |        | HR2139 (Lo-16bits)   |
| HR2141           | NOC3:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2142           |  |        |        | HR2141 (Lo-16bits)   |
| HR2143           | NOC3>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2144           | NOC3:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2145           | NOC4:l>>>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2146           | NOC4:l>>>> Last fault type               | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |
| HR2147           | NOC4:l>>>> Last fault IA current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2148           |  |        |        | HR2147 (Lo-16bits)   |
| HR2149           | NOC4:l>>>> Last fault IB current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2150           |  |        |        | HR2149 (Lo-16bits)   |
| HR2151           | NOC4:l>>>> Last fault IC current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2152           |  |        |        | HR2151 (Lo-16bits)   |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2153           | NOC4:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2154           |  |        |        | HR2153 (Lo-16bits)   |
| HR2155           | NOC4:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2156           | NOC4:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2157           |  |        |        | HR2156 (Lo-16bits)   |
| HR2158           | NOC4:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2159           | NOC4:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2160           | NOC4:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2161           | NOC4:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2162           | NOC4:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2163           |  |        |        | HR2162 (Lo-16bits)   |
| HR2164           | NOC4:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2165           |  |        |        | HR2164 (Lo-16bits)   |
| HR2166           | NOC4:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2167           |  |        |        | HR2166 (Lo-16bits)   |
| HR2168           | NOC4:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2169           |  |        |        | HR2168 (Lo-16bits)   |
| HR2170           | NOC4>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2171           | NOC4:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2172           | DOC1:Idir> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2173           | DOC1:Idir> Last fault type               | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |
| HR2174           | DOC1:Idir> Last fault angle              | R      | 2      | FLOAT [0.00...250.00] (Hi-16bits)  |
| HR2175           |  |        |        | HR2174 (Lo-16bits)   |
| HR2176           | DOC1:Idir> Last fault IA current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2177           |  |        |        | HR2176 (Lo-16bits)   |
| HR2178           | DOC1:Idir> Last fault IB current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2179           |  |        |        | HR2178 (Lo-16bits)   |
| HR2180           | DOC1:Idir> Last fault IC current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2181           |  |        |        | HR2180 (Lo-16bits)   |
| HR2182           | DOC2:Idir>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2183           | DOC2:Idir>> Last fault type              | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C                               |

| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2184           | DOC2:Idir>> Last fault angle              | R      | 2      | FLOAT [0.00...250.00] (Hi-16bits)                      |
| HR2185           |   |        |        | HR2184 (Lo-16bits)                                     |
| HR2186           | DOC2:Idir>> Last fault IA current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2187           |   |        |        | HR2186 (Lo-16bits)                                     |
| HR2188           | DOC2:Idir>> Last fault IB current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2189           |   |        |        | HR2188 (Lo-16bits)                                     |
| HR2190           | DOC2:Idir>> Last fault IC current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2191           |   |        |        | HR2190 (Lo-16bits)                                     |
| HR2192           | DOC3:Idir>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2193           | DOC3:Idir>>> Last fault type              | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C |
| HR2194           | DOC3:Idir>>> Last fault angle             | R      | 2      | FLOAT [0.00...250.00] (Hi-16bits)                      |
| HR2195           |   |        |        | HR2194 (Lo-16bits)                                     |
| HR2196           | DOC3:Idir>>> Last fault IA current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2197           |   |        |        | HR2196 (Lo-16bits)                                     |
| HR2198           | DOC3:Idir>>> Last fault IB current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2199           |   |        |        | HR2198 (Lo-16bits)                                     |
| HR2200           | DOC3:Idir>>> Last fault IC current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2201           |   |        |        | HR2200 (Lo-16bits)                                     |
| HR2202           | DOC4:Idir>>>> Last fault end with         | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2203           | DOC4:Idir>>>> Last fault type             | R      | 1      | 0=-; 1=A-G; 2=B-G; 3=A-B; 4=C-G; 5=A-C; 6=B-C; 7=A-B-C |
| HR2204           | DOC4:Idir>>>> Last fault angle            | R      | 2      | FLOAT [0.00...250.00] (Hi-16bits)                      |
| HR2205           |   |        |        | HR2204 (Lo-16bits)                                     |
| HR2206           | DOC4:Idir>>>> Last fault IA current (pri) | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2207           |   |        |        | HR2206 (Lo-16bits)                                     |
| HR2208           | DOC4:Idir>>>> Last fault IB current (pri) | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2209           |   |        |        | HR2208 (Lo-16bits)                                     |
| HR2210           | DOC4:Idir>>>> Last fault IC current (pri) | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |
| HR2211           |   |        |        | HR2210 (Lo-16bits)                                     |
| HR2212           | NEF1:I0> Last fault end with              | R      | 1      | 0=No Faults; 1=Start; 2=Trip                           |
| HR2213           | NEF1:I0> Last fault I0 current (pri)      | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)                  |



| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2214           |  |        |        | HR2213 (Lo-16bits)   |
| HR2215           | NEF1:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2216           |  |        |        | HR2215 (Lo-16bits)   |
| HR2217           | NEF1:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2218           | NEF1:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2219           |  |        |        | HR2218 (Lo-16bits)   |
| HR2220           | NEF1:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2221           | NEF1:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2222           | NEF1:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2223           | NEF1:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2224           | NEF1:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2225           |  |        |        | HR2224 (Lo-16bits)   |
| HR2226           | NEF1:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2227           |  |        |        | HR2226 (Lo-16bits)   |
| HR2228           | NEF1:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2229           |  |        |        | HR2228 (Lo-16bits)   |
| HR2230           | NEF1:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2231           |  |        |        | HR2230 (Lo-16bits)   |
| HR2232           | NEF1>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2233           | NEF1:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2234           | NEF2:IO>> Last fault end with            | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2235           | NEF2:IO>> Last fault IO current (pri)    | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2236           |  |        |        | HR2235 (Lo-16bits)   |
| HR2237           | NEF2:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2238           |  |        |        | HR2237 (Lo-16bits)   |
| HR2239           | NEF2:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2240           | NEF2:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2241           |  |        |        | HR2240 (Lo-16bits)   |
| HR2242           | NEF2:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2243           | NEF2:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2244           | NEF2:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2245           | NEF2:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2246           | NEF2:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2247           |  |        |        | HR2246 (Lo-16bits)   |
| HR2248           | NEF2:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2249           |  |        |        | HR2248 (Lo-16bits)   |
| HR2250           | NEF2:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2251           |  |        |        | HR2250 (Lo-16bits)   |
| HR2252           | NEF2:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2253           |  |        |        | HR2252 (Lo-16bits)   |
| HR2254           | NEF2:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2255           | NEF2:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2256           | NEF3:I0>>> Last fault end with           | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2257           | NEF3:I0>>> Last fault I0 current (pri)   | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2258           |  |        |        | HR2257 (Lo-16bits)   |
| HR2259           | NEF3:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2260           |  |        |        | HR2259 (Lo-16bits)   |
| HR2261           | NEF3:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2262           | NEF3:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2263           |  |        |        | HR2262 (Lo-16bits)   |
| HR2264           | NEF3:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2265           | NEF3:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2266           | NEF3:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2267           | NEF3:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2268           | NEF3:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2269           |  |        |        | HR2268 (Lo-16bits)   |
| HR2270           | NEF3:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2271           |  |        |        | HR2270 (Lo-16bits)   |
| HR2272           | NEF3:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2273           |  |        |        | HR2272 (Lo-16bits)   |
| HR2274           | NEF3:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2275           |  |        |        | HR2274 (Lo-16bits)   |
| HR2276           | NEF3:Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2277           | NEF3:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2278           | NEF4:I0>>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |

| Holding Register | Parameter                                | Access | Length | Info   |
|------------------|--|--------|--------|--|
| HR2279           | NEF4:I0>>>> Last fault I0 current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2280           |  |        |        | HR2279 (Lo-16bits)   |
| HR2281           | NEF4:Pick-up setting Iset                | RW     | 2      | FLOAT [0.10...50.00] (Hi-16bits)   |
| HR2282           |  |        |        | HR2281 (Lo-16bits)   |
| HR2283           | NEF4:Delay type                          | RW     | 1      | 0=DT; 1=IDMT   |
| HR2284           | NEF4:Definite (min) operating time delay | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits)   |
| HR2285           |  |        |        | HR2284 (Lo-16bits)   |
| HR2286           | NEF4:Delay curve series                  | RW     | 1      | 0=IEC; 1=IEEE; 2=Non standard  |
| HR2287           | NEF4:Delay characteristics IEC           | RW     | 1      | 0=NI; 1=EI; 2=VI; 3=LTI; 4=Param   |
| HR2288           | NEF4:Delay char. ANSI/IEEE               | RW     | 1      | 0=ANSI NI; 1=ANSI VI; 2=ANSI EI; 3=ANSI LI; 4=IEEE MI; 5=IEEE VI; 6=IEEE EI; 7=Param |
| HR2289           | NEF4:Non standard Delay char.            | RW     | 1      | 0=RI-type; 1=RD-type   |
| HR2290           | NEF4:Time dial setting k                 | RW     | 2      | FLOAT [0.01...25.00] (Hi-16bits)   |
| HR2291           |  |        |        | HR2290 (Lo-16bits)   |
| HR2292           | NEF4:IDMT Const. A                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2293           |  |        |        | HR2292 (Lo-16bits)   |
| HR2294           | NEF4:IDMT Const. B                       | RW     | 2      | FLOAT [0.0000...5.0] (Hi-16bits)   |
| HR2295           |  |        |        | HR2294 (Lo-16bits)   |
| HR2296           | NEF4:IDMT Const. C                       | RW     | 2      | FLOAT [0.0000...250.0] (Hi-16bits)   |
| HR2297           |  |        |        | HR2296 (Lo-16bits)   |
| HR2298           | NEF4>Select SG                           | RW     | 1      | 0=SG1; 1=SG2; 2=SG3; 3=SG4; 4=SG5; 5=SG6; 6=SG7; 7=SG8; 8=Edit Active SG             |
| HR2299           | NEF4:Write settings to selected SG       | RW     | 1      | 0=-; 1=Write (autoreset)   |
| HR2300           | DEF1:I0dir> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2301           | DEF1:I0dir> Last fault angle             | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)   |
| HR2302           |  |        |        | HR2301 (Lo-16bits)   |
| HR2303           | DEF1:I0dir> Last fault I0 current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2304           |  |        |        | HR2303 (Lo-16bits)   |
| HR2305           | DEF1:I0dir> Last fault U0(%)             | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2306           |  |        |        | HR2305 (Lo-16bits)   |
| HR2307           | DEF2:I0Dir>> Last fault end with         | R      | 1      | 0=No Faults; 1=Start; 2=Trip   |
| HR2308           | DEF2:I0Dir>> Last fault angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)   |
| HR2309           |  |        |        | HR2308 (Lo-16bits)   |
| HR2310           | DEF2:I0Dir>> Last fault I0 current (pri) | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)  |
| HR2311           |  |        |        | HR2310 (Lo-16bits)   |

| Holding Register | Parameter                                  | Access | Length | Info  |
|------------------|--|--------|--------|---|
| HR2312           | DEF2:I0Dir>> Last fault U0(%)              | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)   |
| HR2313           |  |        |        | HR2312 (Lo-16bits)  |
| HR2314           | DEF3:I0Dir>>> Last fault end with          | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2315           | DEF3:I0Dir>>> Last fault angle             | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR2316           |  |        |        | HR2315 (Lo-16bits)  |
| HR2317           | DEF3:I0Dir>>> Last fault I0 current (pri)  | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)   |
| HR2318           |  |        |        | HR2317 (Lo-16bits)  |
| HR2319           | DEF3:I0Dir>>> Last fault U0(%)             | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)   |
| HR2320           |  |        |        | HR2319 (Lo-16bits)  |
| HR2321           | DEF4:I0Dir>>>> Last fault end with         | R      | 1      | 0=No Faults; 1=Start; 2=Trip  |
| HR2322           | DEF4:I0Dir>>>> Last fault angle            | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)  |
| HR2323           |  |        |        | HR2322 (Lo-16bits)  |
| HR2324           | DEF4:I0Dir>>>> Last fault I0 current (pri) | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)   |
| HR2325           |  |        |        | HR2324 (Lo-16bits)  |
| HR2326           | DEF4:I0Dir>>>> Last fault U0(%)            | R      | 2      | FLOAT [0.00...1000000.00] (Hi-16bits)   |
| HR2327           |  |        |        | HR2326 (Lo-16bits)  |
| HR2328           | GMAG:MVar Ref value (kVar) (remote)        | RW     | 2      | FLOAT [-1000.0000...1000.0000] (Hi-16bits)  |
| HR2329           |  |        |        | HR2328 (Lo-16bits)  |
| HR2330           | GMAG:Mode FCR (remote)                     | R      | 1      | 0=Off; 1=On   |
| HR2331           | GMAG:Mode AVR (remote)                     | R      | 1      | 0=Off; 1=On   |
| HR2332           | ALARM:Alarms 65-96                         | R      | 2      | 0b=A65; 1b=A66; 2b=A67; 3b=A68; 4b=A69; 5b=A70; 6b=A71; 7b=A72; 8b=A73; 9b=A74; 10b=A75; 11b=A76; 12b=A77; 13b=A78; 14b=A79; 15b=A80; 16b=A81; 17b=A82; 18b=A83; 19b=A84; 20b=A85; 21b=A86; 22b=A87; 23b=A88; 24b=A89; 25b=A90; 26b=A91; 27b=A92; 28b=A93; 29b=A94; 30b=A95; 31b=A96 (Hi-16bits)                              |
| HR2333           |  |        |        | HR2332 (Lo-16bits)  |
| HR2334           | ALARM:Alarms 97-128                        | R      | 2      | 0b=A97; 1b=A98; 2b=A99; 3b=A100; 4b=A101; 5b=A102; 6b=A103; 7b=A104; 8b=A105; 9b=A106; 10b=A107; 11b=A108; 12b=A109; 13b=A110; 14b=A111; 15b=A112; 16b=A113; 17b=A114; 18b=A115; 19b=A116; 20b=A117; 21b=A118; 22b=A119; 23b=A120; 24b=A121; 25b=A122; 26b=A123; 27b=A124; 28b=A125; 29b=A126; 30b=A127; 31b=A128 (Hi-16bits) |
| HR2335           |  |        |        | HR2334 (Lo-16bits)  |
| HR2336           | VUB1:U1/2 >/< Measurement condition        | R      | 1      | 0=Seq Volt available; 1=No Seq volts available  |

| Holding Register | Parameter                                     | Access | Length | Info  |
|------------------|---|--------|--------|---|
| HR2337           | VUB2:U1/2 >>/<<<<br>Measurement condition     | R      | 1      | 0=Seq Volt available; 1=No Seq volts available  |
| HR2338           | VUB3:U1/2 >>>/<<<<<br>Measurement condition   | R      | 1      | 0=Seq Volt available; 1=No Seq volts available  |
| HR2339           | VUB4:U1/2 >>>>/<<<<<<br>Measurement condition | R      | 1      | 0=Seq Volt available; 1=No Seq volts available  |
| HR2340           | VREC:Reset last fault values<br>from memory   | RW     | 2      | SIGNAL_IN [0...4294967295] (Hi-16bits)  |
| HR2341           |   |        |        | HR2340 (Lo-16bits)  |
| HR2342           | NOC1:l> Phases condition                      | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A;<br>5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA;<br>10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA;<br>14=Trip ABC |
| HR2343           | NOC2:l>> Phases condition                     | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A;<br>5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA;<br>10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA;<br>14=Trip ABC |
| HR2344           | NOC3:l>>> Phases condition                    | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A;<br>5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA;<br>10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA;<br>14=Trip ABC |
| HR2345           | NOC4:l>>>> Phases condition                   | R      | 1      | 0=Normal; 1=Start A; 2=Start B; 3=Start C; 4=Trip A;<br>5=Trip B; 6=Trip C; 7=Start AB; 8=Start BC; 9=Start CA;<br>10=Start ABC; 11=Trip AB; 12=Trip BC; 13=Trip CA;<br>14=Trip ABC |
| HR2346           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2347           |   |        |        | HR2346 (Lo-16bits)  |
| HR2348           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2349           |   |        |        | HR2348 (Lo-16bits)  |
| HR2350           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2351           |   |        |        | HR2350 (Lo-16bits)  |
| HR2352           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2353           |   |        |        | HR2352 (Lo-16bits)  |
| HR2354           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2355           |   |        |        | HR2354 (Lo-16bits)  |
| HR2356           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2357           |   |        |        | HR2356 (Lo-16bits)  |
| HR2358           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2359           |   |        |        | HR2358 (Lo-16bits)  |
| HR2360           | VRG1:Target Voltage (UTGT)                    | RW     | 2      | FLOAT [70.00...140.00] (Hi-16bits)  |
| HR2361           |   |        |        | HR2360 (Lo-16bits)  |
| HR2362           | VRG1:U> setting (+UTGT)                       | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)  |
| HR2363           |   |        |        | HR2362 (Lo-16bits)  |
| HR2364           | VRG1:U> setting (+UTGT)                       | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)  |
| HR2365           |   |        |        | HR2364 (Lo-16bits)  |

| Holding Register | Parameter                 | Access | Length | Info                                 |
|------------------|---------------------------|--------|--------|--------------------------------------|
| HR2366           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2367           |                           |        |        | HR2366 (Lo-16bits)                   |
| HR2368           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2369           |                           |        |        | HR2368 (Lo-16bits)                   |
| HR2370           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2371           |                           |        |        | HR2370 (Lo-16bits)                   |
| HR2372           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2373           |                           |        |        | HR2372 (Lo-16bits)                   |
| HR2374           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2375           |                           |        |        | HR2374 (Lo-16bits)                   |
| HR2376           | VRG1:U> setting (+UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2377           |                           |        |        | HR2376 (Lo-16bits)                   |
| HR2378           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2379           |                           |        |        | HR2378 (Lo-16bits)                   |
| HR2380           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2381           |                           |        |        | HR2380 (Lo-16bits)                   |
| HR2382           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2383           |                           |        |        | HR2382 (Lo-16bits)                   |
| HR2384           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2385           |                           |        |        | HR2384 (Lo-16bits)                   |
| HR2386           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2387           |                           |        |        | HR2386 (Lo-16bits)                   |
| HR2388           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2389           |                           |        |        | HR2388 (Lo-16bits)                   |
| HR2390           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2391           |                           |        |        | HR2390 (Lo-16bits)                   |
| HR2392           | VRG1:U< setting (-UTGT)   | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2393           |                           |        |        | HR2392 (Lo-16bits)                   |
| HR2394           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2395           |                           |        |        | HR2394 (Lo-16bits)                   |
| HR2396           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2397           |                           |        |        | HR2396 (Lo-16bits)                   |
| HR2398           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2399           |                           |        |        | HR2398 (Lo-16bits)                   |
| HR2400           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2401           |                           |        |        | HR2400 (Lo-16bits)                   |
| HR2402           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2403           |                           |        |        | HR2402 (Lo-16bits)                   |

| Holding Register | Parameter                 | Access | Length | Info                                 |
|------------------|---------------------------|--------|--------|--------------------------------------|
| HR2404           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2405           |                           |        |        | HR2404 (Lo-16bits)                   |
| HR2406           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2407           |                           |        |        | HR2406 (Lo-16bits)                   |
| HR2408           | VRG1:U>/< time delay (DT) | RW     | 2      | FLOAT [0.000...1800.000] (Hi-16bits) |
| HR2409           |                           |        |        | HR2408 (Lo-16bits)                   |
| HR2410           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2411           |                           |        |        | HR2410 (Lo-16bits)                   |
| HR2412           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2413           |                           |        |        | HR2412 (Lo-16bits)                   |
| HR2414           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2415           |                           |        |        | HR2414 (Lo-16bits)                   |
| HR2416           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2417           |                           |        |        | HR2416 (Lo-16bits)                   |
| HR2418           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2419           |                           |        |        | HR2418 (Lo-16bits)                   |
| HR2420           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2421           |                           |        |        | HR2420 (Lo-16bits)                   |
| HR2422           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2423           |                           |        |        | HR2422 (Lo-16bits)                   |
| HR2424           | VRG1:U>> setting (+UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2425           |                           |        |        | HR2424 (Lo-16bits)                   |
| HR2426           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2427           |                           |        |        | HR2426 (Lo-16bits)                   |
| HR2428           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2429           |                           |        |        | HR2428 (Lo-16bits)                   |
| HR2430           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2431           |                           |        |        | HR2430 (Lo-16bits)                   |
| HR2432           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2433           |                           |        |        | HR2432 (Lo-16bits)                   |
| HR2434           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2435           |                           |        |        | HR2434 (Lo-16bits)                   |
| HR2436           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2437           |                           |        |        | HR2436 (Lo-16bits)                   |
| HR2438           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2439           |                           |        |        | HR2438 (Lo-16bits)                   |
| HR2440           | VRG1:U<< setting (-UTGT)  | RW     | 2      | FLOAT [0.10...30.00] (Hi-16bits)     |
| HR2441           |                           |        |        | HR2440 (Lo-16bits)                   |

| Holding Register | Parameter                                 | Access | Length | Info                                       |
|------------------|---|--------|--------|--|
| HR2442           | MEAS2:MEAS2 IL ang. Ref                   | R      | 2      | FLOAT [-360.00...360.00] (Hi-16bits)       |
| HR2443           |   |        |        | HR2442 (Lo-16bits)                         |
| HR2444           | IMERX:IL1 Resistive Current Pri.          | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2445           |   |        |        | HR2444 (Lo-16bits)                         |
| HR2446           | IMERX:IL1 Reactive Current Pri.           | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2447           |   |        |        | HR2446 (Lo-16bits)                         |
| HR2448           | IMERX:IL2 Resistive Current Pri.          | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2449           |   |        |        | HR2448 (Lo-16bits)                         |
| HR2450           | IMERX:IL2 Reactive Current Pri.           | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2451           |   |        |        | HR2450 (Lo-16bits)                         |
| HR2452           | IMERX:IL3 Resistive Current Pri.          | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2453           |   |        |        | HR2452 (Lo-16bits)                         |
| HR2454           | IMERX:IL3 Reactive Current Pri.           | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2455           |   |        |        | HR2454 (Lo-16bits)                         |
| HR2456           | IMERX:Pos.seq. Resistive Current Pri.     | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2457           |   |        |        | HR2456 (Lo-16bits)                         |
| HR2458           | IMERX:Pos.Seq. Reactive Current Pri.      | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2459           |   |        |        | HR2458 (Lo-16bits)                         |
| HR2460           | IMERX:I01 Residual Resistive Current Pri. | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2461           |   |        |        | HR2460 (Lo-16bits)                         |
| HR2462           | IMERX:I01 Residual Reactive Current Pri.  | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2463           |   |        |        | HR2462 (Lo-16bits)                         |
| HR2464           | IMERX:I02 Residual Resistive Current Pri. | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2465           |   |        |        | HR2464 (Lo-16bits)                         |
| HR2466           | IMERX:I02 Residual Reactive Current Pri.  | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2467           |   |        |        | HR2466 (Lo-16bits)                         |
| HR2468           | IMERX:I01 Residual Resistive Current Sec. | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2469           |   |        |        | HR2468 (Lo-16bits)                         |
| HR2470           | IMERX:I01 Residual Reactive Current Sec.  | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits) |
| HR2471           |   |        |        | HR2470 (Lo-16bits)                         |



| Holding Register | Parameter                                 | Access | Length | Info   |
|------------------|---|--------|--------|--|
| HR2472           | IMERX:I02 Residual Resistive Current Sec. | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits)   |
| HR2473           |   |        |        | HR2472 (Lo-16bits)                           |
| HR2474           | IMERX:I02 Residual Reactive Current Sec.  | R      | 2      | FLOAT [-100000.00...100000.00] (Hi-16bits)   |
| HR2475           |   |        |        | HR2474 (Lo-16bits)                           |
| HR2476           | POW1:3PH PF                               | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2477           |   |        |        | HR2476 (Lo-16bits)                           |
| HR2478           | POW2:Exp.Active Energy MWh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2479           |   |        |        | HR2478 (Lo-16bits)                           |
| HR2480           | POW2:Exp.Active Energy kWh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2481           |   |        |        | HR2480 (Lo-16bits)                           |
| HR2482           | POW2:Imp.Active Energy MWh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2483           |   |        |        | HR2482 (Lo-16bits)                           |
| HR2484           | POW2:Imp.Active Energy kWh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2485           |   |        |        | HR2484 (Lo-16bits)                           |
| HR2486           | POW2:Exp/Imp Act. E balance MWh           | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2487           |   |        |        | HR2486 (Lo-16bits)                           |
| HR2488           | POW2:Exp/Imp Act. E balance kWh           | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2489           |   |        |        | HR2488 (Lo-16bits)                           |
| HR2490           | POW2:Exp.React.Cap.E.MVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2491           |   |        |        | HR2490 (Lo-16bits)                           |
| HR2492           | POW2:Exp.React.Cap.E.kVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2493           |   |        |        | HR2492 (Lo-16bits)                           |
| HR2494           | POW2:Imp.React.Cap.E.MVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2495           |   |        |        | HR2494 (Lo-16bits)                           |
| HR2496           | POW2:Imp.React.Cap.E.kVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2497           |   |        |        | HR2496 (Lo-16bits)                           |
| HR2498           | POW2:Exp/Imp React.Cap.E.bal.MVarh        | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2499           |   |        |        | HR2498 (Lo-16bits)                           |
| HR2500           | POW2:Exp/Imp React.Cap.E.bal.kVarh        | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2501           |   |        |        | HR2500 (Lo-16bits)                           |
| HR2502           | POW2:Exp.React.Ind.E.MVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2503           |   |        |        | HR2502 (Lo-16bits)                           |
| HR2504           | POW2:Exp.React.Ind.E.kVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2505           |   |        |        | HR2504 (Lo-16bits)                           |
| HR2506           | POW2:Imp.React.Ind.E.MVarh                | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |

| Holding Register | Parameter                            | Access | Length | Info   |
|------------------|--------------------------------------|--------|--------|--|
| HR2507           |                                      |        |        | HR2506 (Lo-16bits)                           |
| HR2508           | POW2:Imp.React.Ind.E.kVarh           | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2509           |                                      |        |        | HR2508 (Lo-16bits)                           |
| HR2510           | POW2:Exp/Imp React.Ind.E.bal.MVarh   | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2511           |                                      |        |        | HR2510 (Lo-16bits)                           |
| HR2512           | POW2:Exp/Imp React.Ind.E.bal.kVarh   | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2513           |                                      |        |        | HR2512 (Lo-16bits)                           |
| HR2514           | POW2:Reset 3ph Energies              | RW     | 1      | 0=-; 1=Reset                                 |
| HR2515           | POW2:POW2 3PH Apparent power (S)     | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2516           |                                      |        |        | HR2515 (Lo-16bits)                           |
| HR2517           | POW2:POW2 3PH Apparent power (S MVA) | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2518           |                                      |        |        | HR2517 (Lo-16bits)                           |
| HR2519           | POW2:POW2 3PH Active power (P)       | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2520           |                                      |        |        | HR2519 (Lo-16bits)                           |
| HR2521           | POW2:POW2 3PH Active power (P MW)    | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2522           |                                      |        |        | HR2521 (Lo-16bits)                           |
| HR2523           | POW2:POW2 3PH Reactive power (Q)     | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2524           |                                      |        |        | HR2523 (Lo-16bits)                           |
| HR2525           | POW2:POW2 3PH Reactive power (QMVar) | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2526           |                                      |        |        | HR2525 (Lo-16bits)                           |
| HR2527           | POW2:POW2 3PH Tan(phi)               | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2528           |                                      |        |        | HR2527 (Lo-16bits)                           |
| HR2529           | POW2:POW2 3PH Cos(phi)               | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2530           |                                      |        |        | HR2529 (Lo-16bits)                           |
| HR2531           | POW2:3PH PF                          | R      | 2      | FLOAT [-1000000.00...1000000.00] (Hi-16bits) |
| HR2532           |                                      |        |        | HR2531 (Lo-16bits)                           |
| HR2533           | LOGIC1:Logic out 33-64               | RW     | 2      | UINT32 [0...4294967295] (Hi-16bits)          |
| HR2534           |                                      |        |        | HR2533 (Lo-16bits)                           |
| HR2535           | RTDIN:S1 Filtered measurement        | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)          |
| HR2536           |                                      |        |        | HR2535 (Lo-16bits)                           |
| HR2537           | RTDIN:S2 Filtered measurement        | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits)          |
| HR2538           |                                      |        |        | HR2537 (Lo-16bits)                           |

| Holding Register | Parameter                       | Access | Length | Info                                |
|------------------|---------------------------------|--------|--------|-------------------------------------|
| HR2539           | RTDIN:S3 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2540           |                                 |        |        | HR2539 (Lo-16bits)                  |
| HR2541           | RTDIN:S4 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2542           |                                 |        |        | HR2541 (Lo-16bits)                  |
| HR2543           | RTDIN:S5 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2544           |                                 |        |        | HR2543 (Lo-16bits)                  |
| HR2545           | RTDIN:S6 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2546           |                                 |        |        | HR2545 (Lo-16bits)                  |
| HR2547           | RTDIN:S7 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2548           |                                 |        |        | HR2547 (Lo-16bits)                  |
| HR2549           | RTDIN:S8 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2550           |                                 |        |        | HR2549 (Lo-16bits)                  |
| HR2551           | RTDIN:S9 Filtered measurement   | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2552           |                                 |        |        | HR2551 (Lo-16bits)                  |
| HR2553           | RTDIN:S10 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2554           |                                 |        |        | HR2553 (Lo-16bits)                  |
| HR2555           | RTDIN:S11 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2556           |                                 |        |        | HR2555 (Lo-16bits)                  |
| HR2557           | RTDIN:S12 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2558           |                                 |        |        | HR2557 (Lo-16bits)                  |
| HR2559           | RTDIN:S13 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2560           |                                 |        |        | HR2559 (Lo-16bits)                  |
| HR2561           | RTDIN:S14 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2562           |                                 |        |        | HR2561 (Lo-16bits)                  |
| HR2563           | RTDIN:S15 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2564           |                                 |        |        | HR2563 (Lo-16bits)                  |
| HR2565           | RTDIN:S16 Filtered measurement  | R      | 2      | FLOAT [-200.0...2000.0] (Hi-16bits) |
| HR2566           |                                 |        |        | HR2565 (Lo-16bits)                  |
| HR2567           | SYN1:Estimated BRK Closing time | R      | 2      | FLOAT [0...360.000] (Hi-16bits)     |
| HR2568           |                                 |        |        | HR2567 (Lo-16bits)                  |

| Holding Register | Parameter                   | Access | Length | Info  |
|------------------|-----------------------------|--------|--------|---|
| HR2569           | SYN1:Networks rotating time | R      | 2      | FLOAT [0...360.000] (Hi-16bits)   |
| HR2570           |                             |        |        | HR2569 (Lo-16bits)  |
| HR2571           | SYN1:Networks placement atm | R      | 2      | FLOAT [-360.000...360.000] (Hi-16bits)  |
| HR2572           |                             |        |        | HR2571 (Lo-16bits)  |
| HR2573           | GSYN:GSYN Nets Standstill   | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2574           |                             |        |        | HR2573 (Lo-16bits)  |
| HR2575           | GSYN:GSYN Nets Departing    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2576           |                             |        |        | HR2575 (Lo-16bits)  |
| HR2577           | GSYN:GSYN Nets Enclosing    | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2578           |                             |        |        | HR2577 (Lo-16bits)  |
| HR2579           | PCS1:PCS1 Switch Status     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2580           |                             |        |        | HR2579 (Lo-16bits)  |
| HR2581           | PCS2:PCS2 Switch Status     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2582           |                             |        |        | HR2581 (Lo-16bits)  |
| HR2583           | PCS3:PCS3 Switch Status     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2584           |                             |        |        | HR2583 (Lo-16bits)  |
| HR2585           | PCS4:PCS4 Switch Status     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2586           |                             |        |        | HR2585 (Lo-16bits)  |
| HR2587           | PCS5:PCS5 Switch Status     | RW     | 2      | SIGNAL_OUT [0...4294967295] (Hi-16bits)   |
| HR2588           |                             |        |        | HR2587 (Lo-16bits)  |
| HR9906           | Object6 control register    | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9907           | Object7 control register    | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9908           | Object8 control register    | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9909           | Object9 control register    | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |
| HR9910           | Object10 control register   | R=0/W  | 1      | SELECTOPEN=0xA001; SELECTCLOSE=0xA002, CANCEL=0xA004, OPERATE=0xA008, DIRECTOPEN=0xA010, DIRECTCLOSE=0xA020 |

## 3. Contact and reference information

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