

## AQ-S214 Alarm and indication IED



AQ-S214 alarm and indication IED can be applied to various substation tasks: extending the general I/O, sounding alarms, and control. You can add up to six (6) I/O or communication cards into the device, depending on the requirements of your application. The logic programming is powerful and easy to use, and it further expands the unit's application range towards more demanding control, alarm and indication needs. The HMI is large and can be freely programmed, and it provides a quick visualization of the object as well as the status of alarms and events. AQ-S214 communicates using various protocols, including the IEC 61850 substation communication standard.

### Highlights:

- A dynamic view of up to 48 digital or analog alarms.
- The unit provides a flexible and easy way to assign digital signals to the local alarm window, output relays and communication protocols.
- The output relays can be activated by individual or grouped alarm signals.
- The six (6) available I/O card slots enable a large number of signals.

## Technical Data

### PROTECTION FUNCTIONS

Resistance temperature detectors  
Programmable stage (PGx>/<; 99)

### ALARM, CONTROL AND INDICATIONS

Number of objects to control and monitor: 10  
Number of indicators to monitor: 5

Number of alarms to program: 64

Number of setting groups: 8

## HARDWARE

Digital inputs (fixed): 3

Digital outputs (fixed): 5

### Options (6 slots)

Digital inputs: +8/16/24/32/40/48

Digital outputs: +5/10

RTD & mA input module (8 RTD inputs OR 4 RTD inputs + 2 mA inputs)

Milliampere I/O module (4 mA outputs + 1 mA input)

Arc protection module (4 sensors + 2 HSO + 1 BI)

Communication media (specified in the "Communication" tab)

## MEASURING & MONITORING

Disturbance recorder (max. 15 000 permanent event records)

## COMMUNICATION

RJ-45 100 Mbps Ethernet (front panel, fixed)

RJ-45 100 Mbps Ethernet and RS-485 (rear panel, fixed)

Double LC 100 Mbps Ethernet (PRP/HSR) (optional)

RS-232 & serial fibre (PP/PG/GP/GG) (optional)

### Communication protocols

IEC 61850

IEC 60870-5-101/104

IEC 60870-5-103

Modbus/RTU and Modbus/TCP

DNP3

SPA

Application Drawing

