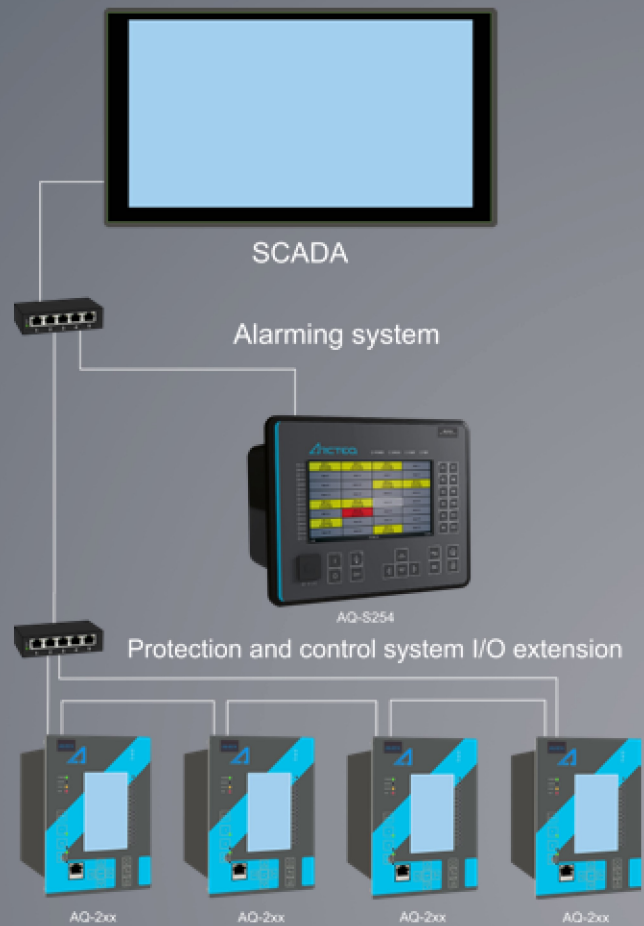# AQ-S254 Alarm and indication IED

AQ-S254 alarm and indication IED can be applied for substation general I/O extension, control and alarm annunciation. Up to 14 I/O or communication cards can be inserted depending on application requirements. Easy to use and powerful logic programming expands further the application range to more demanding control, alarm and indication needs. Large freely programmable HMI display provides quick visualization of the object, alarm and event status. The AQ-S254 communicates using various protocols including IEC 61850 substation communication standard.

- **Modern alarm annunciation and I/O extension with IEC 61850 and GOOSE communication**

ALARM, CONTROL AND INDICATIONS
- Controllable objects: 10
- Configurable alarm annunciator view
- 16 LEDs
- 128 configurable alarms with annunciator view

HARDWARE
- Digital inputs: 3 (standard)
- Output relays: 5+1 (standard)

OPTIONS (14 SLOTS)
- Digital inputs optional: +8/16/24/32/40/48/ 56/64/72/80/88/96/104/112
- Digital outputs optional: +5/10/15/20/25
- 2xmA in + 4xRTD in OR 8xRTD in
- 4xmA out+1xmA in
- Communication media (specified below)

EVENT RECORDING
- Non-volatile event records: 15000

COMMUNICATION MEDIA
- RJ 45 Ethernet 100Mb (front standard)
- RJ 45 Ethernet 100Mb and RS 485 (rear standard)
- Double LC Ethernet 100Mb (option)
- RS232 + serial fibre PP/PG/GP/GG (option)

COMMUNICATION PROTOCOLS STANDARD
- IEC 61850
- IEC 60870-5-103/101/104
- Modbus RTU, Modbus TCP/IP
- DNP 3.0, DNP 3.0 over TCP/IP
- SPA