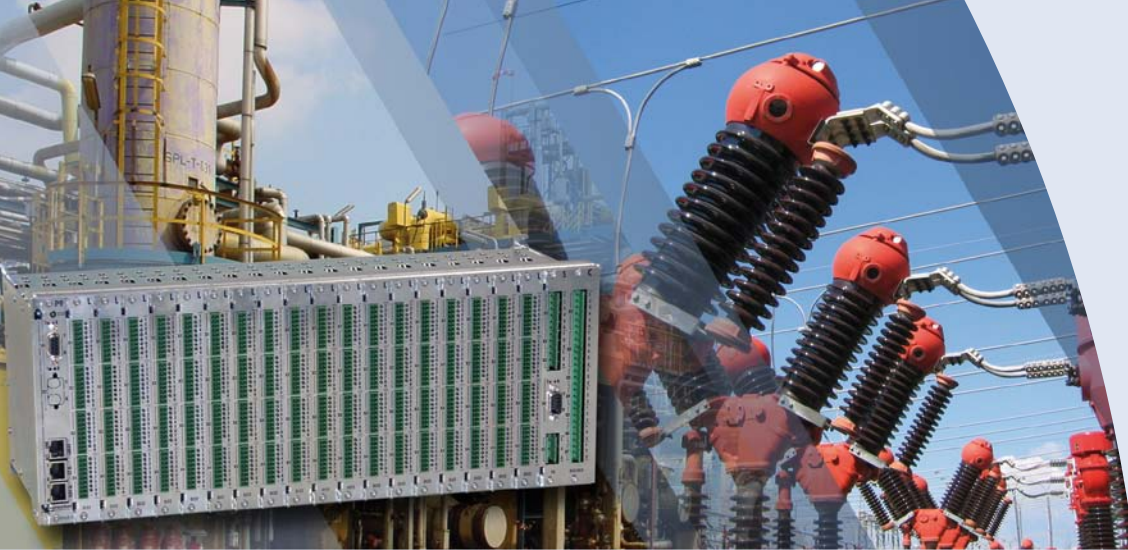




# SPRECON<sup>®</sup>-E-C-SIG

ALARM INDICATION UNIT



# SPRECON-E-C-SIG

SPRECON-E-C-SIG captures different process conditions via digital and/or analog signalling. The unit can be applied to:

- Electric power supply
- Municipal utilities
- Industries

Signals can be further processed with different functions:

- Contact debouncing
- Chatter blocking
- Signal filtering
- Signal delay
- Signal summation
- Signal grouping
- Logic operations

Via signalling outputs, logic operations can be also used for control of devices within or outside of the process.

All captured process conditions are stored by SPRECON-E-C-SIG and indicated on a detachable alarm panel (SPRECON-E-AP) with up to 100 configurable LEDs.

The system offers individual adjustment of the indication type (i. e. fast/slow blinking, steady light)

SPRECON-E-C-SIG allows extension of an additional alarm panel. Alternatively, the system can be also extended with an HMI control panel, whereas process conditions are time-stamped (1 ms resolution). Messages are colour-distinguished displayed depending on the particular message type.

The cascable indication unit can be also used as a remote indication unit, whereas alarms or process conditions are transmitted via a GSM modem. Additionally, alarms can be signalled to a superior control center via various communication protocols.

Beside application of SPRECON-E-C-SIG as a stand-alone device, the alarm indication functionality can be also integrated into a SPRECON-E-C bay computer together with other control functions.



*SPRECON-E-AP alarm panel with 100 individually config. LEDs*

*SPRECON-E-CP HMI control panel with event list*

## TECHNICAL DATA (EXCERPT)

### PERFORMANCE CHARACTERISTICS

- Max. number of inputs/outputs per slot
  - Up to 20 digital inputs
    - 24 to 220V DC and
    - 110 to 230V AC/50Hz
  - Up to 20 digital outputs 250V AC/DC
  - Up to 10 digital control outputs 250V AC/DC
  - Up to 8 analog inputs or 4 outputs
    - 0 to ±20mA/0 to ±10 V
  - Up to 8 PT100 inputs for 2-wire or 4-wire circuit
  - Up to 8 measurement inputs
    - 1A/2A/5A/10A
    - 100V/220V
    - 16.7Hz/50Hz
  - Up to 32 binary inputs 24/48/60V DC
  - Up to 32 signalling outputs 24/48V DC (short-circuit-proof)
- Power supply
  - 24 to 60V DC or 110 to 250V DC and 110 to 230V AC/50/60Hz

### COMMUNICATION PROTOCOLS

- IEC 60870-5-101/-104
- IEC 61850
- Modbus

### COMMUNICATION INTERFACES

- LAN
  - 1/2 x Ethernet 10/100Mbit/s (RJ45) or
  - Ethernet switch for optical ring
    - 2 x opt. (BFOC) and 1 electr. (RJ45)
- RS232
- RS422/485
- Fibre-optic

### TESTS

Acc. EN 55022, IEC 60255, IEC 60255-22, IEC 60870-2, IEC 61000-4, IEC 61000-6, CE designation

### ENVIRONMENTAL CONDITIONS

- Recommended temp.: -5 to +55°C
- Limits: -25 to +70°C (on request)

### HMI CONTROL & ALARM PANEL

- Attached or detached mountable
- 100 individual. config. LEDs (alarm panel)
- Full-graphical colour display (high resolution) with 25 individually configurable LEDs (control panel)
- Possible combinations:
  - Control panel + alarm panel
  - Alarm panel + alarm panel
  - Control panel + alarm panel + alarm panel

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