



SPRECON[®]-E-C-SIG

Alarm Indication Unit

SPRECON®-E-C-SIG

SPRECON-E-C-SIG captures different process conditions via digital and/or analog signaling. 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 also be used to control 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 with an additional alarm panel. Alternatively, the system can also be extended with an HMI control panel, where process conditions are time-stamped (1 ms resolution). Messages are colour-distinguished and displayed depending on the particular message type.

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



SPRECON-E-AP alarm panel with 100 individually configurable LEDs



SPRECON-E-CP HMI control panel with event list

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

TECHNICAL DATA (EXCERPT)

SCOPE OF PERFORMANCE

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

COMMUNICATION PROTOCOLS

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

COMMUNICATION INTERFACES

- LAN
 - 2/3 x Ethernet 10/100 Mbit/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 61010, 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 PANEL

- Mountable attached or detached
- Full-graphical colour display (high resolution)
- 25 individually configurable LEDs (red, green, orange)
- Expandable up to two alarm panels

ALARM PANEL

- 100 individually configurable LEDs
- Expandable with an additional alarm panel

