

Sensor Control Unit SCU 800

LISTEC[®] GmbH
Lineare Sensor Technik

DATA SHEET



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FEATURES

- Evaluation of temperatures measured by sensor cables SEC 15 and/or external sensors ESD
- Two sensor cable inputs A and B
- Alarm triggering via differential and maximum temperature evaluation
- Response characteristic according to EN54-5, class A1, approved by VdS Schadenverhütung, VdS no.: G 205143
- Intelligent evaluation algorithms prevent false alarms
- Highly durable via utilisation of maintenance-free components, RoHS compliant
- Alarm indication on unit front via LEDs
- Low power consumption
- Up to 64 programmable individual zones with alarm and fault status signalling to superordinate systems via protocol
- Type SCU 800-03: One common fault relay and one fire alarm relay each per sensor cable input
- Type SCU 800/16: 16 zonal relays for fire alarms, faults and pre-alarms per programmed sensor cable zone, and one common fault relay
- Relay outputs configurable with loop resistors for closed-circuit monitoring
- Foamed silicone lid seal
- Metric polyamide cable-glands with NBR O-Ring and seal

FRONT PANEL DISPLAYS

- | | |
|----------------------|---|
| • Fire alarm: | LED red (1x per Sensor cable input A and B) |
| • Fault: | LED orange |
| • Operation: | LED green |
| • Measuring cycle: | LED orange |
| • Data transmission: | LED orange |

SENSOR SPECIFICATIONS

- Operating temperature: -25 °C ...+70 °C (0 °C ... +40 °C approved by VdS)
- Ingress protection: IP 65
- Measurement resolution: 0,1 °C
- Repeatability: ± 0,1 K
- Sensor quantity: Up to 99 sensors per sensor cable input
- Sensor cable length: Up to 250 m per sensor cable input including connection cable CC 15

CONNECTIONS AND INTERFACES

- K1 und K2: Sensor cable inputs
- 24 V DC: Power supply
- RS232: For unit parametrisation or connection to superordinate systems
- RS485: Data interface for LIST Master/Slave network, or connection to superordinate systems, or unit parametrisation
- Relay outputs: For fire alarms and common fault signalling
- Reset: Galvanically isolated external reset input

SUPPORTED SOFTWARE-PROTOCOLS

- MODBUS (RTU) via serial interface RS232 or RS485

GENERAL DATA

- Dimensions: 326,0 x 179,0 x 91,0 mm (w x h x d, maximum including cable-glands)
- Case material: Aluminium, powder coated in RAL 7040, grey
- Power supply: 21 V ... 29 V DC
- Relay outputs: Switching voltage: 48 V DC / 32 V AC max.
Switching current: 250 mA max. (resistive load)
Input: 1 x external reset (5 V DC)
SCU 800-03
- Weight: 1,95 kg, including cable-glands
- Current draw: 80 mA (normal operation) / 100 mA (alarm) at 24 V DC
- Power consumption: Max. 2,4 W
- Relays: 1 x fire alarm per sensor cable input, 1 x common fault
SCU 800/16
- Weight: 2,17 kg, including cable-glands
- Current draw: 115 mA (normal operation) / 240 mA (alarm) at 24 V DC
- Power consumption: Max. 5,8 W
- Relays: 16 zonal relays for fire alarms, faults and pre-alarms per programmed sensor cable zone, and one common fault relay

ORDERING INFORMATION

- Sensor Control Unit SCU 800-03 Art.-no.: G00231
- Sensor Control Unit SCU 800/16 Art.-no.: G00233

SCOPE OF DELIVERY

- Sensor Control Unit SCU 800-03, including metric cable glands and connection materials, LISTmemory USB flash drive
- Sensor Control Unit SCU 800/16, including metric cable glands and connection materials, LISTmemory USB flash drive

DIMENSIONS

Case material: Aluminium
Ingress protection: IP 65
Colour: Grey (RAL 7040)

