Sensor Control Unit SCU 800

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

System 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)

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LISTEC GmbH
Am Sandberg 34
D - 84424 Isen
Germany

Tel.: +49 (0) 8083 5385-0
Fax.: +49 (0) 8083 5385-20
e-mail: info@listec-gmbh.de
www.listec-gmbh.de

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