SCU 800-03-Ex

Features

- ◆ ATEX marking for use in zones 2 and 22
- ◆ 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
- ◆ Low power consumption
- ◆ Up to 64 programmable individual zones with alarm and fault status signalling to superordinate systems via protocol
- ◆ One common fault relay and one fire alarm relay each per sensor cable input
- ◆ Relay outputs configurable with loop resistors for closed-circuit monitoring
- ◆ Mounting via wall-mount adaptors that may be oriented horizontally or vertically
- ◆ EMC approved cover gasket
- ◆ Metric polyamide Ex cable-glands with NBR O-Ring and TPE seal

Indicators on unit front inside cabinet

- ◆ Fire alarm: **LED** red (1x per sensor cable input **A** and **B**)
- ◆ Fault: **LED** orange
- ◆ Operating: **LED** green
- ◆ Measuring cycle: **LED** orange
- ◆ Data transmission: **LED** orange

System Specifications

- ◆ Type of protection zone 2: Ex II 3G Ex nA IIC T4 Gc
- ◆ Type of protection zone 22: Ex II 3D Ex tc IIIB T125 °C Dc
- ◆ Operating temperature: -20 °C...+60 °C
- ◆ Ingress protection: IP 66
- ◆ 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 and 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: 462 x 452 x 238 mm (w x h x d, maximum including cable-glands and wall mounts)
- Case material: Glass-fibre reinforced polyester, black
- Surface resistance: $< 10^9 \, \Omega$
- 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)
- Weight: 6 kg including cable-glands and wall mounts
- Current draw: 80 mA (normal operation) / 100 mA (alarm) at 24 V DC
- Power consumption: Max. 2,4 W
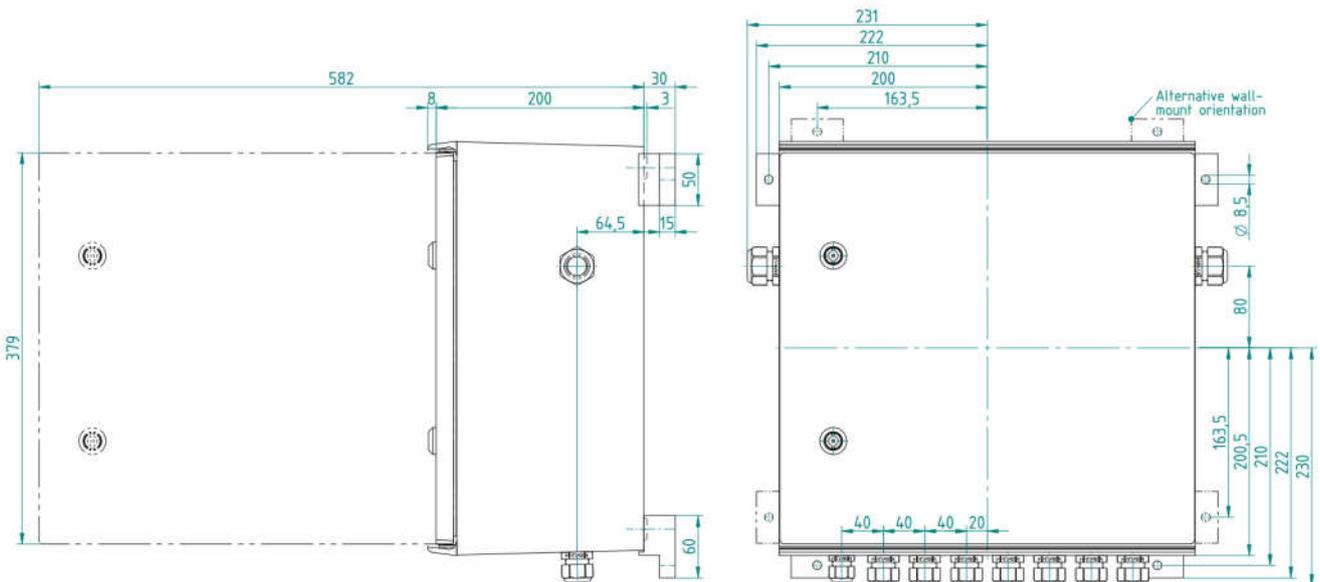- Relays: 1 fire alarm per sensor cable input, 1 common fault

Ordering Information

- **Sensor Control Unit SCU 800-03-Ex**   Art.-no.:   **G00284**

Scope of Delivery

- **Sensor control unit SCU 800-03-Ex** including four wall-mounts, screw plugs in housing bores, cable-glands in plastic bag
- LISTmemory **USB** flash drive

Dimensions