

EX-PROOF BOX

AECS/CAB800-EX

Description

Explosion-proof housing, pre-assembled with mounting plate, terminal block, ground bar and pink connections for mounting the AECS / 800-03 evaluation unit. Reinforced with fiberglass.

ATEX marking for use in zones 2 and 22

Evaluation of temperatures measured by SEC 15 sensor cables and / or by external ESD sensors

Two-wire sensor inputs A and B

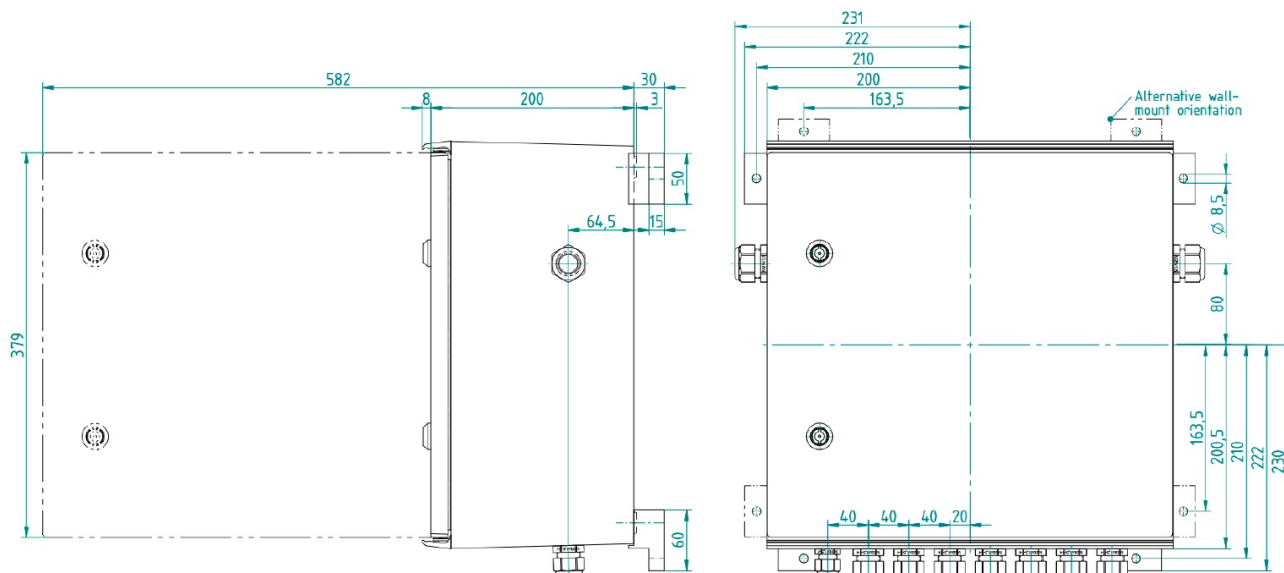
Alarm trigger for differential and maximum temperature. Response parameters according to EN54-5, class A1, approved by VdS Schadenverhütung, VdS Nr.: G 205 143

Exclusion of false alarms through intelligent evaluation algorithms. Long service life thanks to the use of maintenance-free components, compliant with RoHS. Very low energy consumption

Up to 64 individual programmable zones, with transmission of alarm and fault signals to subordinate systems via protocol. One common fault relay and one fire alarm relay for each sense wire input. Configurable relay outputs with loop resistance for closed-loop monitoring. Installation using wall brackets for vertical or horizontal mounting. EMC approved cover gasket. Ex gland for metric polyamide cables with NBR O-ring and TPE seal



Dimensions



Indications on the front panel

Fire alarm:	Red LED (1x per sensor cable input A and B)
Fault:	Orange LED
In service:	Green LED
Measurement cycle:	Orange LED
Data transmission:	Orange LED

TECHNICAL CHARACTERISTICS

SYSTEM SPECIFICATIONS

Protection type zone 2:	Ex II 3G Ex nA IIC T4 Gc
Protection type zone 22:	Ex II 3D Ex tc IIB T125 ° C Dc
Service temperature:	-20 ° C ... + 60 ° C
Protection:	IP 66
Temperature measurement resolution:	0.1 ° C
Read repeat accuracy:	± 0.1 K
Number of sensors:	Up to 99 sensors per sensor cable input
Sensor cable length:	Up to 250 m per sensor cable input including connection cable CC 15

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TECHNICAL CHARACTERISTICS

CONNECTIONS AND INTERNET

K1 and K2:	Inputs of the sensor cable
24 V DC:	Power supply
RS232:	For parameterization or connection to subordinate systems
RS485:	Data interface for the LIST Master / Slave network, or connection to subordinate systems, or for the parameterization of the unit
Relay outputs:	For signaling fire alarms and common fault
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 (lxwxh, maximum including cable glands and wall brackets)
Case material:	Fiberglass reinforced polyester, black
Surface resistance:	<109 Ω
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 / input: 1 x external reset (5 V DC)
Weight:	6 kg including cable glands and wall brackets
Power consumption:	80 mA (normal) / 100 mA (alarm) at 24 V DC
Power consumption:	Max. 2.4 W
Relays:	1 fire alarm through sensor cable input, 1 common fault