

TITANUS MICRO-SENS®

AETM

Description

TITANUS MICRO-SENS® air sampling smoke detection system was developed as a cost-effective solution for monitoring small to medium-sized spaces and equipment. With the optional ROOM-IDENT, this device makes use of patented technology that enables it to monitor up to 5 rooms or facilities and to identify the source of the fire alarm.

TITANUS MICRO-SENS® is also available in a cold storage option, with a redundant fan, or as a detector box. The detector box option does not have its own fan and can be used in combination with TITANUS® systems to localise the sampling hole where the smoke is entering. As a fixed system, the TITANUS MICRO-SENS® FSA is approved by DIBt..

A TITANUS MICRO-SENS® air sampling smoke detection system can be used to replace up to 8 point-type smoke detectors. This requires up to 50 m of pipe length, regardless of whether Class A, B or C is required in accordance with EN 54-20.



Application areas

The compact TITANUS MICRO-SENS® is ideal for applications where larger air sampling smoke detection systems would not be cost-effective or in situations that require individual room identification.

- Small to medium-sized spaces up to 400 m² (e.g. IT areas, server rooms).
- Equipment (e.g. switch cabinets, telecommunications equipment).
- Up to 5 adjacent rooms with localisation of the source of the fire (e.g. hotel rooms, offices, prison cells).
- Stand-alone areas of application (e.g. wind farms, transformer stations).

Advantages

- Early fire detection thanks to innovative, highly sensitive HPLS light source technology.
- High degree of false alarm immunity through LOGIC-SENS fire pattern recognition.
- Optional individual room detection of the source of the fire with ROOM-IDENT.
- 1 to 2 alarm thresholds.
- Optional smoke level display in bar graph form.
- Time saving commissioning through Plug & Play.
- Also available without fan as detector box.
- Optional with redundant fan.
- Cold storage option available.

TECHNICAL CHARACTERISTICS

Maximum number of suction holes	8
Maximum duct length	50m
Location through ROOM · IDENT	Surveillance up to 5 premises with fire location ** is equivalent to a point detector according to VDE 0833-2
Suction port coverage	optional adjustable up to single hole monitoring ** possible through the detection box
Monitoring of eventual ruptures and obstructions of the ducts.	
Coincidence detectors	
Detection Unit - Response Sensitivity DM-TM-10 (Suction Holes according to EN 54-20: Classes A, B and C max. 8)	Pre-alarm *: 0.05% LT / m Main alarm: 0.010% LT / m
Detection Unit - Response Sensitivity DM-TM-10 (Suction Holes according to EN 54-20: Classes A, B and C max. 8)	Pre-alarm *: 0.25% LT / m Main alarm: 0.50% LT / m
Alarm signals	1-2 (pre-alarm and main alarm) *
Voltage free contacts, internal (external, optional)	2 (5)
Fault alarm	Common alarm (voltage-free contact, NC or NO)
Contact power of the alarm and fault relays.	1A, 30 Vdc, max. 24W
Connection cables section	max. 2.5 mm ²
Indicators on the device:	
- Prealarm and main alarm.	1 red alarm indicator in each case *
- Smoke level	10 level bar indicator *
- Failure	Common bug in yellow
- Operation	Green operation indicator

TITANUS MICRO·SENS®**AETM****CARACTERÍSTICAS TÉCNICAS**

Operating voltage	24 Vdc (16-30Vdc)
Max consumption idle (at 24 Vdc) *	105 mA (at normal fan voltage of 9V)
Max consumption in alarm (at 24 Vdc) *	110-140 mA (at normal fan voltage of 9V)
Starting current	150 mA
Dimensions (L x W x D)	140 x 222 x 70mm
Weight	850 to 895 g *
Protection class	up to IP 54
Temperature range	-20 °C to + 60 °C
- Freezing variant	-40 °C to + 60 °C
Humidity (permanent)	from 10% to 95% of relative humidity
Event history	Integrated
Connecting external alarm indicators	Parallel displays and ROOM-IDENT indicators optional
Network Operation Capability	Able to accept an Ethernet network card
Approvals according to EN 54-20, classes A, B, C:	
VDS #	G 206004
BPRI n	0786-CPD-20322