

## TITANUS MICRO-SENS® detector



### 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 5420.

### Applications

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 m<sup>2</sup> (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).
- Standalone areas of application (e.g. wind farms, transformer stations).

### Avantages

- 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.

## TITANUS *MICRO.SENS*<sup>®</sup> detector

Basic equipment	TITANUS <i>MICRO.SENS</i> <sup>®</sup>
Max. number of sampling holes	8
Max. pipe length (with max. number of sampling holes)	50 m
Localisation using ROOM-IDENT	Monitoring of up to 5 rooms with localisation of the source of the fire*
Monitored area per sampling hole	Corresponds to one point-type smoke detector in accordance with VDE 0833-2
Monitoring of pipe systems for breakage and obstruction.	Optional adjustment for individual hole monitoring**
Double-knock detection	Possible using detector box
Sensitivity detection unit DM-TM-10(Sampling holes in accordance with EN 54-20: Classes A max. 2, B max. 6 and C max. 8)	Pre-alarm*: 0.05 % LT/mMain Alarm: 0.10 % LT/m
Sensitivity detection unit DM-TM-50(Sampling holes in accordance with EN 54-20: Class A max. 2, Class B max. 6, Category C max. 8)	Pre-alarm*: 0.25 % LT/mMain Alarm: 0.50 % LT/m
Alarm notification	1-2 (Pre and main alarm)*
Potential free contacts, internal (external, optional)	2 (5)
Fault alarms	Cumulative report (Potential free contact, either via NC or NO)
Alarm and fault relay power rating	1A, 30 Vcc, máx. 24W
Clamped connections	máx. 2,5 mm <sup>2</sup>
Displays on device:	
- Pre-alarm and main alarm	1 red alarm display for each*
- Smoke level	10-step bar graph display*
- Fault	Yellow common fault
- Operation	Green operation display
Operating voltage	24 Vcc (16-30Vcc)
Max. quiescent current (at 24 V DC)	105 mA (at standard fan voltage of 9 V)
Max. alarm current (at 24 V DC)	110-140 mA (at standard fan voltage of 9 V)*
Starting current	150 mA
Dimensions (W x H x D)	140 x 222 x 70 mm
Weight	850 to 895 g*
Protection category	up to IP 54
Temperature range	-20 °C to + 60 °C
- Cold storage option	-40 °C to + 60 °C
Humidity (permanent)	10 % to 95 % relative humidity
Event log	Built-in

# technical data

## TITANUS *MICRO·SENS*<sup>®</sup> detector

Basic equipment	TITANUS <i>MICRO·SENS</i> <sup>®</sup>
Connection of external alarm notifications	Parallel displays and ROOM-IDENT indicators optional
Network capability	Able to accept an Ethernet network card
Redundant fan	Built-in*
Approved in accordance with EN 54-20, Classes A, B, C:	
VDS n°	G 206004
BPRI n°	0786-CPD-20322

\* depending on device configuration

\*\* depending on project design