

# TITANUS *MICRO-SENS*<sup>®</sup>

## Product information



### Fire detection

The compact, cost-effective air sampling smoke detection system for equipment and small to medium-sized spaces



G 206004

**EN 54-20**

# TITANUS *MICRO-SENS*<sup>®</sup>

## The compact and cost-effective air sampling smoke detection system

**TITANUS *MICRO-SENS*<sup>®</sup>** 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*<sup>®</sup>** 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<sup>®</sup>** systems to localise the sampling hole where the smoke is entering. As a fixed system, the **TITANUS *MICRO-SENS*<sup>®</sup> FSA** is approved by DIBt.

A **TITANUS *MICRO-SENS*<sup>®</sup>** 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.



G 206004

## Applications

The compact **TITANUS *MICRO-SENS*<sup>®</sup>** 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)
- 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

# TITANUS *MICRO-SENS*<sup>®</sup>

## Technical data

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/m Main 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/m Main 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	1 A, 30 V DC, max. 24 W
Clamped connections	Max. 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 V DC (16 - 30 V DC)
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 <sup>3</sup>
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
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-No.	G 206004
BPRI-No.	0786-CPD-20322

\* depending on device configuration \*\* depending on project design

## Other TITANUS® air sampling smoke detection systems

### TITANUS *PRO-SENS*®

Solution with up to 560 m pipe length for monitoring large areas, from IT rooms to recycling areas



### TITANUS *TOP-SENS*®

Complete solution with smoke level visualisation for up to 560 m pipe length for monitoring large areas, from IT rooms up to recycling areas



### TITANUS *SUPER-SENS*®

A High-End solution for the most demanding detection needs, a thousand times more sensitive than conventional smoke detectors, e.g. for clean rooms and IT areas with high levels of air conditioning



### TITANUS *RACK-SENS*®

Intelligent solution for the protection of open and closed server and switch cabinets



**FIRE DETECTION** | Very early fire detection with **TITANUS**® provides critical additional time to assess the risk and take counter measures.

**FIRE PREVENTION** | Actively prevents fires. **OxyReduct**® is the innovative way in fire protection.

**FIRE EXTINGUISHING** | Fixed fire extinguishing systems with various gaseous extinguishing agents.

**RISK MANAGEMENT** | Visualisation and control of important system data combined with multiple diagnostic and messaging functions integrated into a powerful building management system.

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