

TITANUS *SUPER-SENS*[®]

Product information



Fire detection

High-End air sampling smoke detection system for the most demanding detection requirements



G 201035

EN 54-20

TITANUS *SUPER-SENS*[®]

High-End air sampling smoke detection system for the most demanding detection requirements

TITANUS *SUPER-SENS*[®] was specially developed for applications with the very highest requirements in terms of detection. Its particular strengths lie in the detection of pyrolysis gases, which are released during the thermal processes before it is even possible to speak about the outbreak of fire. The system has a 3-stage alarm system and a smoke level display in bar graph form and can also be fitted with an Ethernet network card.

The electroplated version, **TITANUS *SUPER-SENS*[®] /G** is also available for use in monitored areas with a corrosive atmosphere.

TITANUS *SUPER-SENS*[®] available. A special adjustment allows this version to be deployed in the presence of corrosive gases for a significantly extended lifecycle.

The coverage of the **TITANUS *SUPER-SENS*[®]** goes far beyond the classification of EN 54-20. Depending on the version, the alarm sensitivity can be set to be up to 600 times greater than is required under Class A. A pipe length of up to 200 mtrs. can be used, regardless of whether Class A, B or C is required in accordance with EN 54-20.



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Applications

The highly sensitive **TITANUS *SUPER-SENS*[®]** is ideal for use in clean rooms or IT areas where it is essential to detect fires at the earliest possible stage despite high levels of air dilution:

- Clean rooms, such as computer chip manufacturing plants, CD/DVD production
- IT areas with high levels of air conditioning

Advantages

- Early fire detection thanks to innovative, highly sensitive HPLS light source technology
- A high degree of false alarm immunity through its use in very clean areas
- 3 alarm thresholds for a tiered alarm concept
- Smoke level display in bar graph form
- Reliable project design with just 5 mouse clicks
- Time saving commissioning through Plug & Play

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Technical data

Basic equipment	TITANUS <i>SUPER-SENS</i>[®] /G /R /RS
max. number of sampling holes	24
Max. pipe length (with max. number of sampling holes)	200 m
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 (Sampling holes in accordance with EN 54-20: Classes A, B and C max. 24)	Info-alarm: up to 0.002 % LT/m* Pre-alarm : up to 0.004 % LT/m* Main alarm: up to 0.006 % LT/m*
Alarms (volt-free contacts)	3 (Info, Pre-alarm and main alarm)
Fault alarms	Cumulative report (volt-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 ²
Displays on device	
- Info, pre-alarm and main alarm	1 red alarm indicator for each
- Smoke level	10-step bar graph display (20 segments)
- Fault	Yellow collective fault
- Operation	Green operation display
Operating voltage	24 V DC (14 - 30 V DC)
Max. quiescent current (at 24 V DC)	245 mA (at standard fan voltage of 12 V)
Max. alarm current (at 24 V DC)	320 mA (at standard fan voltage of 12 V)
Dimensions (W x H x D)	240 x 366 x 132 mm ³
Weight	2800 g
Protection category	IP 20
Temperature range	-20 °C to + 60 °C
Humidity (permanent)	10 % to 95 % relative humidity
Extended period in corrosive atmosphere	Electro-plated version TITANUS <i>SUPER-SENS</i>[®] /G
Event log	Built-in
Connection of external alarm notifications	Parallel display optional
Network capability	Able to accept an Ethernet network card
Approved in accordance with EN 54-20, Classes A, B, C:	
VdS-No.	G 201035
BPRI-No.	0786-CPD-20781

* depending on version ** depending on project design

Other TITANUS® air sampling smoke detection systems

TITANUS MICRO-SENS®

Solution for monitoring up to 5 small to medium sized rooms, optional with localisation of the fire source e.g. hotel room, hospital, prison cell



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 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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