TITANUS *TOP·SENS*®
Product information

Full-featured air sampling smoke detection system for a broad range of applications

VdS

G 202064

EN 54-20

WAGNER®

TITANUS *TOP·SENS*®

The full-featured air sampling smoke detection system

TITANUS *TOP·SENS*® was developed to serve a wide range of applications with the highest specifications. The system has a 3-stage alarm system and a smoke level display in bar graph form. It can also be fitted with an Ethernet network card.

An additional price advantage comes with the optional equipping of the device with a second detector module. This means that one air sampling device can monitor two separate monitored areas. Alternatively, double-knock detection can be set up for both room and equipment monitoring purposes

TITANUS *TOP·SENS*® is also available in a cold storage version or in a silent version, which operates at noise levels as low as 23 dB (A).

The coverage of the detector is in accordance with EN 54-20: a single **TITANUS *TOP·SENS*® 2** system can replace up to 64 point-type smoke detectors. Thanks to a powerful fan operating at up to 560 Pa, a pipe length of up to 560 m can be achieved fullfilling EN 54-20 Class A to C requirement.

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Applications

The complete **TITANUS *TOP·SENS*®** offers a comprehensive product range along with accessories approved in accordance with EN 54-20. This allows the device to be used in areas where other smoke detectors and air sampling smoke detection systems have long reached their limits. These include:

- IT areas and clean rooms
- General warehouses, high bay storage areas and cold storage areas
- Production and assembly lines
- Wind farms
- Libraries, museums and archives
- Hospitals, hotel rooms and saunas
- Recycling areas
- Rail vehicles and tunnels

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
- 3 alarm thresholds for a tiered alarm concept
- Smoke level display in bar graph form
- A broad range of accessories, approved to EN 54-20
- High degree of modularity for a customised, cost effective solution
- Reliable project design with just 5 mouse clicks
- Time saving commissioning through Plug & Play
- Double-knock detection to enable separate room and equipment monitoring
- Available as silent option from 23 dB (A)

TITANUS *TOP·SENS*®

Technical data

Basic equipment	TITANUS *TOP·SENS*®	TITANUS *TOP·SENS*® 2
Number of detector modules	1	2
max. number of sampling holes	32	64
Max. pipe length (with max. number of sampling holes)	300 m	560 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	Yes (separate room and equipment protection)
Sensitivity detector module DM-TT-01 (Sampling holes in accordance with EN 54-20: Class A max. 2 x 32, Class B max. 2 x 32, Class C max. 2 x 32)	Info-alarm: 0.005 % LT/m Pre-alarm : 0.010 % LT/m Main alarm: 0.015 % LT/m	
Sensitivity detector module DM-TT-10 (Sampling holes in accordance with EN 54-20: Class A max. 2 x 9, Class B max. 2 x 32, Class C max. 2 x 32)	Info-alarm: 0.03 % LT/m Pre-alarm : 0.07 % LT/m Main alarm: 0.1 % LT/m	
Sensitivity detector module DM-TT-50 (Sampling holes in accordance with EN 54-20: Class A max. 2 x 4, Class B max. 2 x 12, Class C max. 2 x 32)	Info-alarm: 0.17 % LT/m Pre-alarm : 0.3 % LT/m Main alarm: 0.5 % LT/m	
Alarms (potential free change-over contacts)	3 alarms per detector module (info-alarm, pre-alarm and main alarm)	
Fault alarms	Common alarm (1 volt-free contact per detector module, NC or NO)	
Alarm and fault relay power rating	1 A, 30 V DC, max. 24 W	
Clamped connections	Max. 1.5 mm²	
Displays on the device:		
- Info, pre-alarm and main alarm	1 red alarm indicator per detector module	
- Smoke level	10-step bar graph display	
- Fault	Yellow collective fault	
- Operation	Green operation display	
Operating voltage	24 V DC (14 - 30 V DC)	
Max. quiescent current (at 24 V DC)*	200 mA	230 mA
Max. alarm current (at 24 V DC)*	230 mA	290 mA
Starting current limited to	300 mA	330 mA
Dimensions (W x H x D)	200 x 292 x 113 mm³	
Weight	1460 g	1560 g
SL version:		
Max. quiescent current (at 24 V DC)*	160 mA	200 mA
Max. alarm current (at 24 V DC)*	190 mA	230 mA
Starting current limited to	300 mA	330 mA
Noise levels (with sound damper)	from 23 dB (A)	
Protection category	IP 20 (optional IP 52)	
Temperature range	-20 °C to + 60 °C	
- Cold storage option (no SL version)	-40 °C to + 60 °C	
Humidity (permanent)	10 % to 95 % relative humidity	
Event log	Built-in, additional external data storage possible	
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:		
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BPRI-No.	0786-CPD-20685	

* at standard fan voltage of 6.9 V   ** 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 *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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