

TITANUS TOP-SENS® Detector



Descripción

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 fulfilling EN 54-20 Class A to C requirement.

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.

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.
- 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*[®] Detector

Basic equipment	TITANUS <i>TOP.SENS</i> [®]	TITANUS <i>TOP.SENS</i> [®] 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†	1A, 30 Vcc, máx. 24W	
Clamped connections	máx. 1,5 mm ²	
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 Vcc (14-30Vcc)	
Max. quiescent current (at 24 V DC)*	200mA	230mA
Max. alarm current (at 24 V DC)*	230mA	290mA
Starting current limited to	300mA	330mA
Dimensions (W x H x D)	200 x 292 x 113 mm	
Weight	1460 g	1560 g

technical data

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Basic equipment	TITANUS <i>TOP.SENS</i> [®]	TITANUS <i>TOP.SENS</i> [®] 2
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:		
VdS-No.	G 202064	
BPRI-No.	0786-CPD-20685	

* at standard fan voltage of 6.9 V

** depending on project design