



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 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

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)

TECHNICAL DATA

Basic Equipment	Titanus Top Sens	Titanus Top Sens 2
No. of Detector Modules	1	2
Max No. of Sampling Holes	32	64
Max Pipe Length (w/ max no. of sampling holes)	300 m	560 m
Monitored Area per Sampling Hole	Corresponds to one-type smoke detector in accordance with VDE 0833-2	
Monitoring of Pipe Systems for Breakage & Obstruction	Optional adjustment for individual hole monitoring **	
Sensitivity detector module DM-TT-01 (Sampling holes in accordance with EN54-20: Class A, B & 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 EN54-20: Class A, B & C max 2 x 32)	Info alarm: 0.03% LT/ Pre-alarm: 0.07% LT/m Main alarm: 0.1% LT/m	
Sensitivity detector module DM-TT-10 (Sampling holes in accordance with EN54-20: Class A, B & C max 2 x 32)	Info alarm: 0.17% LT/ 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 & 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 Vdc, max 24 W	
Clamped Connections	Max 1.5 mm ²	
Displays on the device	1 red alarm indicator per detector module 10-step bar graph display Yellow collective fault Green operation display	
Operating Voltage	24 Vdc (14-30 Vdc)	
Max Quiescent Current (at 24 Vdc)*	200 mA	230mA
Max Alarm Current (at 24 Vdc)	230 mA	290 mA
Starting Current Limited to	300 mA	330 mA
Dimensions (W x H x D)	200 x 292 x 113 mm ³	
Weight	1460 g	1560 g
SL Version		
Max Quiescent Current	160 mA	200 mA
Max Alarm Current	190 mA	230 mA
Starting Current Limited to	300 mA	330 mA
Noise Levels (with sound damper)	from 23 db (A)	

TECHNICAL DATA

Protection Category	IP20 (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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