



Titanus Pro Sens

The universal air sampling smoke detection system TITANUS PRO-SENS[®] is a universal air sampling device for a broad range of applications. The high degree of modularity of the device makes it possible to achieve a cost-effective solution – customised to suit the specific needs of the customer.

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 PRO-SENS[®] is available with 1 to 3 alarm levels, with a network option, in the cold storage version or in the 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 PRO-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 robust TITANUS PRO-SENS[®] offers a comprehensive product range complete with accessories approved to 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
- Up to 3 alarm thresholds for a tiered alarm concept
- 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 Pro Sens	Titanus Pro 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: 0.06% 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)	up to 3 alarms per detector module (info-alarm, pre alarm & main alarm)	
Fault Alarms	Common alarm (1 potential 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		
Info, pre alarm & main alarm	1 red alarm indicator per detector module	
Smoke Level	1 red alarm indicator per detector module	
Fault	1 red alarm indicator per detector module	
Operation	1 red alarm indicator per detector module	
Operating Voltage	24 Vdc (14-30 Vdc)	
Max Quiescent Current (at 24 Vdc)*	200 (210) mA	220 (240) mA
Max Alarm Current (at 24 Vdc)	210 (220) mA	240 (250) mA
Starting Current Limited to	300 (390) mA	320 (400) mA
Dimensions (W x H x D)	200 x 292 x 113 mm ³	
Weight	1460 g	1560 g
SL Version		
Max Quiescent Current	150 (140) mA	180 (170) mA
Max Alarm Current	160 (150) mA	190 (180) mA
Starting Current Limited to	300 (230) mA	330 (260) 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	
VdS No.	G 202064
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