

Aspirating Smoke Detector

TITANUS TOP·SENS®

Standard and *SILENT*-Version

TITANUS® aspirating smoke detector according to UL 268 7th & 8th Edition

The TITANUS® family of aspirating smoke detectors covers standard to very early warning fire detection as well as a wide range of extreme applications without compromising high levels of sensitivity and performance.



Technology

TITANUS TOP·SENS® aspirating smoke detection system combines High-Power-Light-Source (HPLS) technology with patented LOGIC·SENS™ fire pattern recognition algorithms and a large portfolio of custom accessories to ensure that each system will maintain high levels of sensitivity and false alarm immunity even in challenging environments. Its modular design facilitates cost effective solutions for a wide range of specialized requirements. Optional second plug-in detector module allows one aspirating unit to economically monitor two separate areas or alternatively to be used for cross-zoning alarm verification. TITANUS TOP·SENS® comes with dry contacts for connection to any fire panel as well as free slots for inserting bus modules.

Advantages

- Modular design for cost effective solutions to fit the needs on site.
- High reliability and extended service life due to physical separation of disturbing influences such as dust, vapor or radiation from the measuring chamber.
- TITANUS® *PipeXpress* software for highly reliable ASD planning with just a few mouse clicks.
- Time-saving Installation and commissioning thanks to plug & play philosophy.
- Discreet installation for maintaining aesthetics and providing safety against vandalism.
- Intelligent diagnostics tool gives support at inspection and service.

Features

- System coverage up to 21,600 ft² (2,006 m²) or rather 10,800 ft² (1,003 m²) per detector module
- High-Power-Light-Source (HPLS) for standard to very high sensitivity
- LOGIC·SENS™ for very high immunity to false alarms
- PIPE·GUARD patented air flow monitoring system, sensing changes in total airflow as little as +/-10%
- Optional 2nd detector module for cross-zoning alarm verification or increased area of coverage
- Up to 656 ft (200 m) pipe length and up to 24 holes per detector module
- Designed for harsh environments, with a wide range of accessories for special applications
- 3 alarm levels per detector module for tiered alerting
- Bar graph smoke level display
- Optional Ethernet (TCP/IP)/SNMP/data logger
- Operating temperature: -4 °F to +140 °F (-20 °C to +60 °C) depending on version
- Also available as TITANUS TOP·SENS® cold storage version

Approvals



S24453

Versions with approval according to VdS, FM, DNV and LR available (see corresponding data sheet).

Additional approvals on request and/or at www.wagnergroup.com

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TITANUS TOP-SENS® | Components



The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

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System	TITANUS TOP-SENS® Standard Version	TITANUS TOP-SENS® SILENT Version
1 Basic Device		
Type	TT-1-U/a	TT-1-SL-U/a
Max. Main Alarm Sensitivity	0.009 % obs/ft (0.03 % obs/m)	
No. of Detector Modules (Zones)	1 or 2	
Max. No. of Aspiration Holes	24 per zone	
Max. Area of Coverage	10,800 ft ² (1,003 m ²) per zone	
Max. Pipe Length	656 ft (200 m) per zone	
Cross-Zoning Alarm Verification	optional with 2nd detector module	
No. of Alarm Levels per Zone	3	
No. of Output Relays (1A/30VDC)	8 relays (changeover/form C)	
Front Indicators	Fault; Operation; per Zone: 3 x Alarm, 1 x Bar Graph (Smoke Level)	
Ethernet/SNMP/Data Logger (SD Card)	optional ¹	
Binary Data Logger	standard	
Supply Voltage	24 VDC (14 to 30 VDC)	
Current Consumption min. Operational (1 Detector Module, 24 VDC)	200 mA	150 mA
Current Consumption min. Operational (2 Detector Module, 24 VDC)	230 mA	180 mA
Current Consumption min. Operational (2 Detector Module, 24 VDC) Alarm	230 mA	190 mA
Current Consumption min. Operational (2 Detector Module, 24 VDC) Alarm	290 mA	220 mA
Operating Temperature	-4°F to +140°F (-20°C to +60°C)	+32°F to +104°F (0°C bis +40°C)
Humidity Range	10% to 95% (noncondensing)	
Sound Pressure Level (ISO 3744)	as low as 45 dB(A)	as low as 23 dB(A) ²
Dimensions	4.5 x 7.9 x 11.5 inches (113 x 200 x 292 mm)	
Weight (Basic Configuration)	3.0lbs + 0.22lbs (1,350g + 100g) per detector module	
Pipe Specification	63/64 inches (25 mm)	
IP Rating	standard: IP 20/optional: IP 52	

2 Detector Modules

Type	DM-TT-10-L-U/a	DM-TT-01-L-U/a
Weight	0.22lbs (100g)	
Sensitivity Rating	Medium	High
Max. Main Alarm Sensitivity	0.046% obs/ft (0.15% obs/m)	0.009% obs/ft (0.03% obs/m)

3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type **FW-TT-1 (FW-TT-2; for indicating external shutdown: FW-TT-3)**

² Network Module with (without) Data Logger: NU-5-D (NU-5); Data Logger only: NU-5-DO

³ As low as 31 dB (A) without sound absorber type SD-1