

Aspirating Smoke Detector

TITANUS MICRO-SENS®

Standard Version

TITANUS® aspirating smoke detector

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 MICRO-SENS® is WAGNER's air sampling smoke detector for monitoring enclosures and small to medium-sized areas of up to 4,305 ft². It 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.

TITANUS MICRO-SENS® comes with dry contacts for connection to any fire panel. For special demands TITANUS MICRO-SENS® with redundant fan is available on request.

Advantages

- Cost effective solution 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

- Coverage up to 4,305 ft² (400 m²)
- 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%
- Up to 164 ft (50 m) pipe length and up to 8 holes
- Designed for harsh environments, with a wide range of accessories for special applications
- 2 alarm levels for tiered alerting option
- Optional bar graph smoke level display
- Optional Ethernet (TCP/IP)/SNMP/data logger
- Operating temperature: -4°F to +140°F (-20°C to +60°C)
- Also available as TITANUS MICRO-SENS® cold storage and ROOM-IDENT version

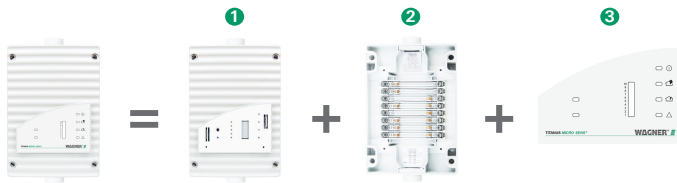
Approvals



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

Aspirating Smoke Detector | TITANUS MICRO-SENS®

TITANUS MICRO-SENS® | Components



The aspirating smoke detector consists of the detection unit (1), a device base (2) and an adhesive front film sheet (3).

TITANUS MICRO-SENS®		
System	TITANUS MICRO-SENS® High Sensitivity	TITANUS MICRO-SENS® Normal Sensitivity
1 Basic Device		
Type ("B" is bargraph option)	DM-TMV(-B)-10-U	DM-TMV(-B)-50-U
Max. Main Alarm Sensitivity	0.03% obsc./ft (0.10% obsc./m)	0.15% obsc./ft (0.50% obsc./m)
No. of Detection Zones	1	
Max. No. of Aspiration Holes	8	
Max. Area of Coverage	4,305 ft ² (400 m ²)	
Max. Pipe Length	164 ft (50 m), 131 ft (40 m) straight pipe run	
Cross-Zoning Alarm Verification	optional with detector box	
No. of Alarm Levels	2	
No. of Output Relays (1A/30VDC)	2 (alarm: n.o.; fault: n.c.), additional relays optional ¹	
Front Indicators	Alarm, Pre-Alarm, Fault; Operation; optional Bar Graph (smoke level)	
Ethernet/SNMP/Data Logger (SD Card)	optional ²	
Binary Data Logger	standard	
Supply Voltage	24 VDC (16 to 30 VDC)	
Current Consumption ³	Operational	105 mA
	Alarm without bar graph	110 mA
	Alarm with bar graph	140 mA
Operating Temperature	-4 °F to +140 °F (-20 °C to +60 °C)	
Humidity Range	10% to 95% (noncondensing)	
Sound Pressure Level (ISO 3744)	as low as 40 dB(A)	
Dimensions	2.9 x 5.5 x 8.7 inches (70 x 140 x 222 mm)	
Weight (Basic Configuration)	0.94 lb (425 g)	
Pipe Specification	63/64 inches (25 mm)	
IP Rating	IP 54	
2 Device Basis		
Type	HB-TM	
Weight	0.93 lb (420 g)	
3 Adhesive Front Film Sheets		
Type for devices without bargraph	FW-TMV	
Type for devices with bargraph	FW-TMV-B	

¹ Relay board RU-2 for 5 additional relays, external housing required

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

³ At 9 V standard fan voltage, 24 VDC supply voltage