



National Fire Equipment Ltd.

Aspirating Smoke Detector | TITANUS MICRO·SENS®

Standard and Normal 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 for inserting bus modules.

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.

Advantage

- 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 ROOM IDENT version

Approvals



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



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TORONTO: (905) 761-6355
Toll Free: (800) 267-8508

OTTAWA: (613) 723-6071

VANCOUVER: (604) 420-1131
Toll Free: (800)-667-2138

BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
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CALGARY: (403) 236-5661

MONCTON: (506) 859-7277
Toll Free: (877) 816-3473

MISSISSAUGA: (905) 565-1385

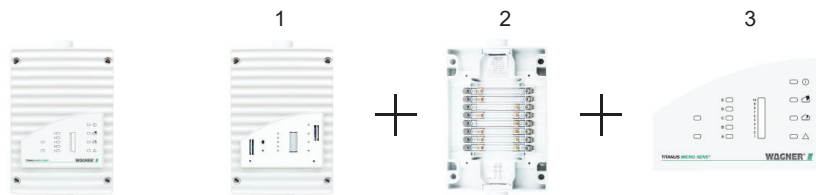
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TITANUS MICRO-SENS®



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

TITANUS MICRO-SENS® | Components

System	TITANUS MICRO-SENS® High Sensitivity	TITANUS MICRO-SENS® Normal Version
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 Detector Modules (Zones)	1	8
Max. No. of Aspiration Holes	8	8
Max. Area of Coverage	4,305 ft² (400 m²)	4,305 ft² (400 m²)
Max. Pipe Length	164 ft (50 m), 131 ft (40 m) straight pipe run	164 ft (50 m), 131 ft (40 m) straight pipe run
Cross-Zoning Alarm Verification	optional with detector box	optional with detector box
No. of Alarm Levels per Zone	2	2
No. of Output Relays (1 A / 30 VDC)	2 (alarm: n.o.; fault: n.c.), additional relays optional ⁽¹⁾	2 (alarm: n.o.; fault: n.c.), additional relays optional ⁽¹⁾
Front Indicators	Alarm, Pre-Alarm, Fault; Operation; optional Bar Graph (smoke level)	Alarm, Pre-Alarm, Fault; Operation; optional Bar Graph (smoke level)
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽²⁾	optional ⁽²⁾
Binary Data Logger	standard	standard
Supply Voltage	24 V DC (16 to 30 V DC)	24 V DC (16 to 30 V DC)
Current Consumption ⁽³⁾		
Operational	105 mA	105 mA
Alarm without bar graph	110 mA	110 mA
Alarm with bar graph	140 mA	140 mA
Operating Temperature	-4 °F to +140 °F (-20 °C to +60 °C)	-4 °F to +140 °F (-20 °C to +60 °C)
Humidity Range	10 % to 95 % (noncondensing)	10 % to 95 % (noncondensing)
Sound Pressure Level (ISO 3744)	as low as 40 dB(A)	as low as 40 dB(A)
Dimensions	2.9 x 5.5 x 8.7 inches (70 x 140 x 222 mm)	2.9 x 5.5 x 8.7 inches (70 x 140 x 222 mm)
Weight (Basic Configuration)	0.94 lb (425 g)	0.94 lb (425 g)
Pipe Specification	63 / 64 inches (25 mm)	63 / 64 inches (25 mm)
IP Rating	IP 54	IP 54
2 Detector Modules		
Type	HB-TM	HB-TM
Weight	0.93 lb (420 g)	0.93 lb (420 g)
3 Adhesive Front Film Sheets		
Type for devices without bargraph	FW-TMV	FW-TMV
Type for devices with bargraph	FW-TMV-B	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 V DC supply voltage



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