



National Fire Equipment Ltd.

Aspirating Smoke Detector | TITANUS MICRO·SENS®

ROOM-IDENT 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.

Advantage

- Individual smoke indication for up to 5 separate enclosures or rooms using one straight pipe run.
- 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.

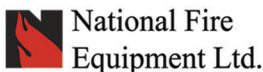
Features

- Coverage up to 4,305 ft² (400 m²)
- ROOM-IDENT function provides individual smoke indication for up to 5 separate enclosures or rooms
- 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 131 ft (40 m) pipe length and up to 5 holes
- 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® standard and cold storage version

Approvals



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



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Toll Free: (800)-667-2138

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Toll Free: (888)-891-1008

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

OTTAWA: (613) 723-6071

BURNABY: (604)-299-4498

CALGARY: (403) 236-5661

MISSISSAUGA: (905) 565-1385

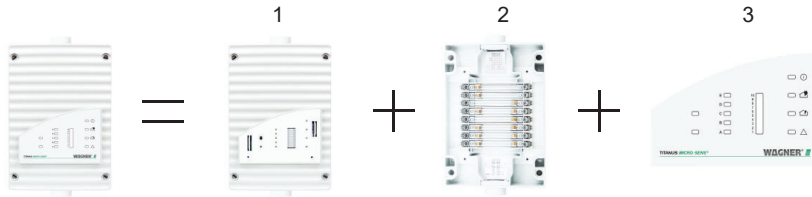
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TITANUS MICRO-SENS® | Components



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-R(B)-10-U	DM-TMV-R(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 or 2	
Max. No. of Aspiration Holes	5	
Max. Area of Coverage	4,305 ft ² (400 m ²)	
Max. Pipe Length	131 ft (40 m)	
Cross-Zoning Alarm Verification	optional with detector box	
No. of Alarm Levels per Zone	2	
No. of Output Relays (1 A / 30 VDC)	2 (alarm: n.o.; fault: n.c.), additional relays optional ⁽¹⁾	
Front Indicators	Alarm, Pre-Alarm, Fault; Operation; Room Indicators (5); optional Bar Graph (smoke level)	
Remote Indicators	optional ⁽²⁾	
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽³⁾	
Binary Data Logger	standard	
Supply Voltage	24 V DC (16 to 30 V DC)	
Current Consumption ⁽⁴⁾		
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)	1.04 lb (470 g)	
Pipe Specification	63 / 64 inches (25 mm)	
IP Rating	IP 54	

2 Detector Modules

Type	HB-TM
Weight	0.93 lb (420 g)

3 Adhesive Front Film Sheets

Type for devices without bargraph	FW-TMV-R
Type for devices with bargraph	FW-TMV-RB

(1) Relay boards providing 5 additional relays each: RU-1 (for ROOM IDENT), RU-2 (for pre-alarm), external housing required

(2) Remote response indicators type DJ-TM for indicating the effected room or enclosure

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

(4) At 9 V standard fan voltage, 24 V DC supply voltage