

Aspirating Smoke Detector

TITANUS MICRO-SENS®

Cold Storage Version with Pre-Alarm

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. Coverage up to 400 m².



Technology

TITANUS MICRO-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. TITANUS MICRO-SENS® enables adapted and cost-effective solutions for a wide range of applications. It comes with dry contacts for connection to any fire panel.

Advantages

- Installation inside cold storage facilities to avoid condensation and ice build-up.
- High reliability and extended service life due to physical separation of disturbing influences such as dust, vapour or radiation from the measuring chamber.
- Pre-alarm option for tiered alerting
- Optional bar graph smoke level display
- 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.
- Cost-optimized: Only as much technology as necessary, to be expanded and customized
- Intelligent diagnostics tool gives support at inspection and service.

Features

- Max. main alarm sensitivity 0.1 % obsc./m
- Coverage up to 400 m²
- Up to 50 m pipe length and up to 8 aspirating holes
- Operating temperature: -40 °C bis +60 °C
- Optional bargraph smoke level display
- With pre-alarm, main alarm and optional bar graph smoke level display
- PIPE-GUARD patented airflow monitoring system, sensing changes in total airflow as little as +/-10%
- Dry contacts for connection to any fire panel
- Optional Ethernet (TCP/IP)/SNMP/data logger
- Designed for harsh environments, with a wide range of accessories for special applications
- Also available as TITANUS MICRO-SENS® standard and ROOM-IDENT version

Approvals



Further approvals on request and at www.wagnergroup.com

Aspirating Smoke Detector | TITANUS MICRO-SENS® Cold Storage Version

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 bar graph option)	DM-TMV(-B)-10-F	DM-TMV(-B)-50-F
Max. main alarm sensitivity	0.10 % obsc./m	0.50 % obsc./m
No. of pipe connections	1 aspiration pipe plus 1 air return	
Max. number of aspiration holes	8	
Max. area of coverage	400 m²	
Max. pipe length (d ₀ = 25 mm)	50 m resp. 40 m straight pipe run	
Double-knock alarm verification	optional with detector box	
Alarm levels	2	
Supply voltage	24 VDC (16 to 30 VDC) according to EN 54-4	
Front indicators	alarm, pre-alarm, fault, operation	
	DM-TMV-B-10-F/-B-50-F with additional smoke level display	
Current consumption ¹	Operational	105 mA
without bar graph	Alarm	110 mA
with bar graph	Operational	140 mA
Operating temperature	-40 °C to +60 °C	
Sound pressure level	as low as 40 dB(A)	
Weight (basic configuration)	0.43 kg	
Humidity range	10 % to 95 % (noncondensing)	
Dimensions	222 x 140 x 70 mm	
Material and colour	ABS, papyrus white (RAL 9018)	
Cable entries	6 x M20 and 8 x M25	
Terminal connections	max. 1.5 mm²	
IP rating	IP 54	
No. of Output Relays (1 A/30 VDC)	2 (alarm: n.o.; fault: n.c.), additional relays optional ²	
Contact load, max.	1 A, 30 V, max. 24 W	
2 Device basis		
	Type	HB-TM
	Weight	0.42 kg
3 Adhesive front film sheets		
	Type for devices without bar graph	FW-TMV
	Type for devices with bar graph	FW-TMV-B

¹ At 9 V standard fan voltage, 24 VDC supply voltage

² Relay board RU-1 providing 5 additional alarm relays (external housing required)