

Aspirating Smoke Detector

TITANUS *PRO-SENS*®

Cold Storage 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. Coverage up to 2 x 3,000 m².



Technology

TITANUS *PRO-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 *PRO-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.
- 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, 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.
- Cost-optimized: Only as much technology as necessary, to be expanded and customized
- Intelligent diagnostics tool gives support at inspection and service.

Features

- Max. fire alarm sensitivity 0.015% obsc./m
- System coverage up to 2 x 3,000 m²
- Up to 2 x 300 m pipe length and up to 2 x 63 holes
- Operating temperature: from -40°C up to 60°C
- PIPE·GUARD patented airflow monitoring system, sensing changes in total airflow as little as +/-10%
- Dry contacts for connection to any fire panel
- Free slots for integration of additional modules such as bus modules
- Optional 2nd detector module for double-knockalarm verification or for increased area of coverage
- Pre-alarm optional via 2nd detector module
- Designed for harsh environments, with a wide range of accessories for special applications
- Also available as standard version and *SILENT* version

Approvals

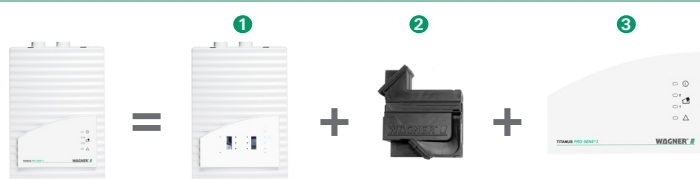


Versions TP-1-F-U available, approved according to UL, ULC and FM.

Further approvals on request and at www.wagnergroup.com

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TITANUS PRO-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

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1 Basic device

Type	TP-1-F/a ¹
Max. fire alarm sensitivity	0.015% obsc./m
No. of pipe connections	1–2 aspiration pipes, d _a = 25 mm (plus 1 air return)
No. of detector modules (zones)	1–2
Max. no. of aspiration holes	2 x 63
Max. area of coverage	2 x 3,000 m ²
Max. pipe length	2 x 300 m
Double-knock alarm verification	optional
No. of alarm levels per zone	1
Supply voltage	24 VDC (14 to 30 VDC) according to EN 54-4
Front indicators	fault, operation; per zone: 1 alarm
Current consumption min. Operational (24 VDC, 1 detector module)	200 mA
Alarm	210 mA
Current consumption min. Operational (24 VDC, 2 detector modules)	220 mA
Alarm	240 mA
Operating temperature	-40°C to +60°C
Sound pressure level (ISO 3744)	as low as 45 dB(A)
Weight (basic configuration)	1.35 kg
Humidity range	10% to 95% (noncondensing)
Dimensions	292 x 200 x 113 mm
Material and colour	ABS, papyrus white (RAL 9018)
Cable entries	5 x M20 and 2 x M25
Terminal connections	max. 1.5 mm ²
IP rating	standard: IP 20, optional: IP 52
No. of output relays	4 relays (alarm: form C, fault: normally closed)
Contact load, max.	1 A, 30 V, max. 24 W

2 Detector modules

Type	DM-TP-50-L-F	DM-TP-10-L-F	DM-TP-01-L-F
Weight	0.10kg		
Sensitivity			
EN 54-20 Earliest possible fire detection, class A+ ²	--	--	special excellence
EN 54-20 Earliest possible fire detection class A	450m²	1,350 m²	3,000 m²
Earliest possible fire detection class B	1,050 m²	3,000 m²	3,000 m²
Earliest possible fire detection class C	2,250 m²	3,000 m²	3,000 m²
Max. no. of aspiration holes	0.50% obsc./m	0.10% obsc./m	0.015% obsc./m
Max. fire alarm sensitivity			
EN 54-20 Class A/B/C	3/7/15	9/32/40	40/63/63

3 Adhesive front film sheets

Using 1 (2) detector modules, type

FW-TP-1 (FW-TP-2)

¹ NF approved version: TP-1NF-F/a

² Detection of 2 g material decomposition at 180 seconds cable pyrolysis with pyrolysis generator type PYS 100