

Aspirating Smoke Detector

TITANUS *PRO-SENS*®

Standard and *SILENT*-Variant

TITANUS® aspirating smoke detector

The TITANUS® family of aspirating smoke detectors covers standard to very early fire detection as well as a wide range of extreme applications without compromising high levels of sensitivity and performance.



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 double-knock alarm verification. TITANUS *PRO-SENS*® comes with dry contacts for connection to any fire alarm control panel as well as free slots for inserting bus modules.

Advantages

- Modular design for cost effective solutions 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

- System coverage up to 6,000 m² or rather 3,000 m² per detector module
- 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%
- Optional 2nd detector module for double-knock alarm verification or increased area of coverage
- Up to 300m pipe length and up to 100 sampling points per detector module
- Designed for harsh environments, with a wide range of accessories for special applications
- Pre-alarm option
- Operating temperature: -20°C to +60°C depending on variant
- Also available as TITANUS *PRO-SENS*® cold storage variant

Approvals



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

Aspirating Smoke Detector | TITANUS PRO-SENS®

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).

TITANUS PRO-SENS®

System	TITANUS PRO-SENS® Standard Variant	TITANUS PRO-SENS® SILENT Variant
1 Basic Device		
Type	TP-1-U	TP-1-SL-U
Max. Main Alarm Sensitivity	0.015% obsc./m	
No. of Detector Modules (Zones)	1 or 2	
Max. No. of Sampling Points	2 x 63	1 x 100 or 2 x 72 ¹
Max. Area of Coverage	6,000 m² per system/3,000 m² per zone	
Max. Pipe Length	1 x 300 m per zone	
Double-Knock Alarm Verification	optional with 2nd detector module	
No. of Alarm Levels per Zone	1	
No. of Output Relays (1 A/30 VDC)	4 relays (alarm: form C, fault: normally closed)	
Front Indicators	Fault; Operation; per Zone: 1 x Alarm	
Ethernet/SNMP/Data Logger (SD Card)	--	
Binary Data Logger	standard	
Supply Voltage	24 VDC (14 to 30 VDC)	
Current Consumption min. Operational	200 mA	140 mA
(1 Detector Module, 24 VDC) Alarm	210 mA	150 mA
Current Consumption min. Operational	220 mA	170 mA
(2 Detector Module, 24 VDC) Alarm	240 mA	180 mA
Operating Temperature	-20 °C to +60 °C	0 °C bis +40 °C
Humidity Range	10% to 95% (non-condensing)	
Sound Pressure Level (ISO 3744)	as low as 45 dB(A)	as low as 23 dB(A) ²
Dimensions	113 x 200 x 292 mm	
Weight (Basic Configuration)	1,350 g + 100 g per detector module	
Pipe Specification	25 mm	
IP Rating	standard: IP 20/optional: IP 52	

2 Detector Modules

Type	DM-TP-50-L-U	DM-TP-10-L-U	DM-TP-01-L-U
Weight	100 g		
Sensitivity Rating	Standard	Medium	High
Max. Main Alarm Sensitivity	0.5% obsc./ft	0.10% obsc./m	0.015% obsc./m

3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type

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

¹ Fan Controller Type FC-3 required for more than 63 sampling points per detector module

² As low as 31 dB(A) without sound absorber type SD-1