

Aspirating Smoke Detector

TITANUS *PRO-SENS*[®] /net

Standard and *SILENT* Version TP-4(-SL)



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*[®]/net 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*[®]/net 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.
- High reliability and extended service life due to physical separation of disturbing influences such as dust, vapor or radiation from the measuring chamber.
- 2 alarm levels per detector module for tiered alerting
- 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. 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 depending on version up to 2 x 72 holes
- With pre-alarm and main alarm
- Operating temperature: from -20°C up to 60°C depending on version
- 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-knock alarm verification or for increased area of coverage
- Sensitivity control input
- Optional Ethernet (TCP/IP)/SNMP/data logger
- Sound pressure level from 23 dB(A) for *SILENT* version
- Designed for harsh environments, with a wide range of accessories for special applications
- Also available as cold storage version from -40°C

Advantages



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Versions TP-4(-SL)-U available, approved according to UL, ULC, FM, GL and LR. Standard version is NF approved.

Further approvals on request and at www.wagnergroup.com

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TITANUS PRO-SENS®/net | 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®/net		TITANUS PRO-SENS®/net TP-4	TITANUS PRO-SENS®/net TP-4-SL
System		Standard	SILENT Version
1 Basic device			
	Type	TP-4	TP-4-SL
	Max. fire alarm sensitivity	0.015% obsc./m	
	No. of pipe connections	1–2 aspiration pipes, $d_a = 25\text{ mm}$ (plus 1 air return)	
	No. of detector modules (zones)	1–2	
	Max. no. of aspiration holes	2 x 63	2 x 63 (1 x 100 or 2 x 72) ¹
	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	2	
	Supply voltage	24 VDC (14 to 30 VDC) according to EN 54-4	
	Front indicators	fault, operation; per zone: 2 alarms	
Current consumption min. (24 VDC, 1 detector module)	Operational	210 mA	130 mA
	Alarm	220 mA	140 mA
Current consumption min. (24 VDC, 2 detector modules)	Operational	240 mA	160 mA
	Alarm	250 mA	170 mA
	Operating temperature	-20°C to +60°C	0°C to +40°C
	Sound pressure level (ISO 3744)	as low as 45 dB(A)	as low as 23 dB(A) ²
	Weight (basic configuration)	1.35 kg	1.5 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 und 2 x M25	
	Terminal connections	max. 1,5 mm ²	
	IP rating	standard: IP 20, optional: IP 52	
	No. of output relays	6 relays (changeover/form C)	
	Contact load, max.	1 A, 30 V, max. 24 W	
2 Detector modules			
	Type	DM-TT-50-L	DM-TT-10-L
	Weight	0.10 kg	
Sensitivity			
	Earliest possible fire detection, class A+ ³	--	special excellence
	Max. coverage class A	600 m ²	3,000 m ²
	Max. coverage class B	1,800 m ²	3,000 m ²
	Max. coverage class C	3,000 m ²	3,000 m ²
	Max. fire alarm sensitivity	0.50% obsc./m	0.015% obsc./m
Max. no. of aspiration holes			
	EN 54-20 class A/B/C	4/12/32	40/100/100
3 Adhesive front film sheets			
	Using 1 (2) detector modules, type	FW-TP-4 (FW-TP-5; for indicating external shutdown: FW-TP-6)	

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¹ Fan controller type FC-3 required

² with sound absorber type SD-1/a

³ Detection of 2 g material decomposition at 180 seconds cable pyrolysis with pyrolysis generator type PYS 100