Aspirating Smoke Detector

TITANUS *PRO·SENS*® / net

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

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 *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 side.
- 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 64,560 ft² (6,000 m²) or rather 32,280 ft² (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 cross-zoning alarm verification or increased area of coverage
- Up to 984 ft (300 m) pipe length and up to 100 holes per detector module
- Designed for harsh environments, with a wide range of accessories for special applications
- 2 alarm levels per detector module for tiered alerting
- Optional Ethernet (TCP/IP) / SNMP / data loger
- Operating temperature: -4 °F to +140 °F (-20 °C to +60 °C) depending on version
- Also available as TITANUS *PRO·SENS*® / net cold storage version

Approvals

S24453   0003044596   G 202064

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

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TITANUS *PRO·SENS*® / net | Components

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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

	System	TITANUS *PRO·SENS*® / net Standard Version	TITANUS *PRO·SENS*® / net *SILENT* Version
❶ Basic Device			
	Type	**TP-4-U**	**TP-4-SL-U**
Max. Main Alarm Sensitivity		0.005 % obsc./ft (0.015 % obsc./m)	
No. of Detector Modules (Zones)		1 or 2	
Max. No. of Aspiration Holes		2 x 63	1 x 100 or 2 x 72 [1]
Max. Area of Coverage		64,560 ft² (6,000 m²) per system / 32,280 ft² (3,000 m²) per zone	
Max. Pipe Length		1 x 980 ft (1 x 300 m) per zone	
Cross-Zoning Alarm Verification		optional with 2nd detector module	
No. of Alarm Levels per Zone		2	
No. of Output Relays (1 A / 30 VDC)		6 relays (changeover / form C)	
Front Indicators		Fault; Operation; per Zone: 2 x Alarm	
Ethernet / SNMP / Data Logger (SD Card)		optional [2]	
Binary Data Logger		standard	
Supply Voltage		24 V DC (14 to 30 V DC)	
Current Consumption min. Operational		210 mA	130 mA
(1 Detector Module, 24 V DC) Alarm		220 mA	140 mA
Current Consumption min. Operational		240 mA	160 mA
(2 Detector Module, 24 V DC) Alarm		250 mA	170 mA
Operating Temperature		-4 °F to +140 °F (-20 °C to +60 °C)	+32 °F to +104 °F (0 °C bis +40 °C)
Humidity Range		10 % to 95 % (noncondensing)	
Sound Pressure Level (ISO 3744)		as low as 45 dB(A)	as low as 23 dB(A) [3]
Dimensions		4.5 x 7.9 x 11.5 inches (113 x 200 x 292 mm)	
Weight (Basic Configuration)		3.0 lbs + 0.22 lbs (1,350 g + 100 g) per detector module	
Pipe Specification		63 / 64 inches (25 mm)	
IP Rating		standard: IP 20 / optional: IP 52	

❷ Detector Modules

Type	**DM-TT-50-L-U**	**DM-TT-10-L-U**	**DM-TT-01-L-U**
Weight		0.22 lbs (100 g)	
Sensitivity Rating	Standard	Medium	High
Max. Main Alarm Sensitivity	0.15 % obsc./ft	0.03 % obsc./ft	0.005 % obsc./ft
	(0.5 % obsc./ft)	(0.10 % obsc./m)	(0.015 % obsc./m)

❸ Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type   **FW-TP-4 (FW-TP-5;** for indicating external shutdown: **FW-TP-6)**

[1] Fan Controller Type FC-3 required for more than 63 holes per detector module
[2] Network Module with (without) Data Logger: NU-5-D (NU-5); Data Logger only: NU-5-DO
[3] As low as 31 dB (A) without sound absorber type SD-1

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