Description

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*TM 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. ITANUS *PRO·SENS®* / net comes with dry contacts for connection to any fire panel as well as free slots for inserting bus modules.

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, 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.

Listing

UL Standard
FM Approved
VdS Approved

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*TM 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 63 holes per detector module
- Designed for harsh environments, with a wide range of accessories for special applications
- 3 alarm levels per detector module for tiered alerting
- Optional Ethernet (TCP/IP) / SNMP / data loger
- Operating temperature: -40 °F to +140 °F (-40 °C to +60 °C) depending on version
- Also available as TITANUS *PRO·SENS®* / net standard and *SILENT* version

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ISO 9001 Registered Quality Systems

TITANUS PRO-SENS

System	TITANUS *PRO·SENS®* / net
	Cold Storage Version

Basic Device

Type	TP-5-F-U
Max Main Alarm Sensitivity	0.005 % obsc./ft (0.015 % obsc./m)
No. of Detector Modules (Zones)	1 or 2
Max. No of Aspirating Holes	2 x 63
Max Area 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	3
No. of Output Relays (1 A/ 30 VDC)	8 relays (changeover / form C)
Front Indicator	Fault; Operation; per Zone: 3 x Alarm
Ethernet/SNMP/ Data Logger (SD Card)	optional
Binary Data Logger	standard
Supply Voltage	24 V DC (14 to 30 V DC)
Current Consumption min. Operational	210mA
(1 Detector Module, 24 V DC) Alarm	220mA
Current Consumption min. Operational	240mA
(2 Detector Module, 24 V DC) Alarm	250mA
Operating Temperature	-40 °F to +140 °F (-40 °C to +60 °C)
Humidity Range	10 % to 95 % (noncondensing)
Sound Pressure Level (ISO 3744)	as low as 45 dB(A)
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

Detectors Modules

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

Adhesive Front Film Sheet

Using 1(2) Detector Modules, Type	FW-TP-7 (FW-TP-8; for indicating external shutdown: FW-TP-9)

1 Network Module with Data Logger: NU-5-D-F; Data Logger only: NU-5-DO-F

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