

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-SENSTM 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-SENSTM 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
- Pre-alarm option
- Optional Ethernet (TCP/IP) / SNMP / data logger
- Operating temperature: -40 °F to +140 °F (-40 °C to +60 °C) depending on version
- Also available as TITANUS PRO-SENS® / standard and SILENT version

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Represented by:



Aspirating Smoke Detector

TITANUS PRO-SENS – Cold Storage

Devices

TITANUS PRO-SENS

System

TITANUS PRO-SENS®
Cold Storage Version

Basic Device

Type

TP-1-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

1

No. of Output Relays (1 A/ 30 VDC)

4 relays (alarm: form C, fault: normally closed)

Front Indicator

Fault; Operation; per Zone: 1 x Alarm

Ethernet/SNMP/ Data Logger (SD Card)

Binary Data Logger

standard

Supply Voltage

24 V DC (14 to 30 V DC)

Current Consumption min. Operational

200mA

(1 Detector Module, 24 V DC) Alarm

210mA

Current Consumption min. Operational

220mA

(2 Detector Module, 24 V DC) Alarm

240mA

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-TP-50-L-F-U**DM-TP-10-L-F-U****DM-TP-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-1 (FE-TP-2)

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