

## 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

- 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 64,560 ft<sup>2</sup> (6,000 m<sup>2</sup>) or rather 32,280 ft<sup>2</sup> (3,000 m<sup>2</sup>) 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
- 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 logger
- 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

## Listing

UL Standard  
FM Approved  
VdS Approved

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Represented by:



# Aspirating Smoke Detector

## TITANUS PRO-SENS – Standard and SILENT-Version TP-5(SL)-U

### Devices

#### 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

1 x 100 or 2 x 72

Max Area Coverage

64,560 ft<sup>2</sup> (6,000 m<sup>2</sup>) per system / 32,280 ft<sup>2</sup> (3,000 m<sup>2</sup>) 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

130mA

(1 Detector Module, 24 V DC) Alarm

220mA

140mA

Current Consumption min. Operational

240mA

160mA

(2 Detector Module, 24 V DC) Alarm

250mA

170mA

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)

as low as 23 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-U****DM-TT-10-L-U****DM-TT-01-L-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 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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