

Aspirating Smoke Detector TITANUS TOP-SENS®

Cold Storage Version

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 TOP-SENS® 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. TITANUS TOP SENS® comes with dry contacts for connection to any fire panel as well as free slots for inserting bus modules.

Advantage

- 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

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
- 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
- · Designed for harsh environments, with a wide range of accessories for special applications
- 3 alarm levels per detector module for tiered alerting
- · Bar graph smoke level display
- 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 TOP SENS® standard and SILENT version

Approvals







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



Aspirating Smoke Detector | TITANUS TOP-SENS®

TITANUS TOP-SENS® | Components

The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

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System

TITANUS TOP-SENS®

Cold Storage Version

1 Basic Device

Type

Max. Main Alarm Sensitivity

No. of Detector Modules (Zones)

Max. No. of Aspiration Holes

Max. Area of Coverage

Max. Pipe Length

Cross-Zoning Alarm Verification

No. of Alarm Levels per Zone

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

Front Indicators

Ethernet / SNMP / Data Logger (SD Card)

Binary Data Logger

Supply Voltage

Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm

Current Consumption min. Operational

(2 Detector Module, 24 V DC) Alarm

Operating Temperature

Humidity Range

Sound Pressure Level (ISO 3744)

Dimensions

Weight (Basic Configuration)

Pipe Specification

IP Rating

TP-1-F-U

0.005 % obsc./ft (0.015 % obsc./m)

1 or 2

2 x 63

64,560 ft² (6,000 m²) per system / 32,280 ft² (3,000 m²) per zone

1 x 980 ft (1 x 300 m) per zone

optional with 2nd detector module

8 relays (changeover / form C)

Fault; Operation; per Zone: 3 x Alarm, 1 x Bar Graph (Smoke Level)

optional(1)

standard

24 V DC (14 to 30 V DC)

200 mA

230 mA

230 mA

290 mA

-40 °F to +140 °F (-20 °C to +60 °C)

10 % to 95 % (noncondensing)

as low as 45 dB(A)

4.5 x 7.9 x 11.5 inches (113 x 200 x 292 mm)

3.0 lbs + 0.22 lbs (1,350 g + 100 g) per detector module

63 / 64 inches (25 mm)

standard: IP 20 / optional: IP 52

2 Detector Modules

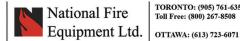
Type DM-TT-50-L-F-U DM-TT-10-L-F-U DM-TT-01-L-F-U 0.22 lbs (100 g) Weight Sensitivity Rating Standard Medium High 0.15 % obsc./ft 0.03 % obsc./ft 0.005 % obsc./ft Max. Main Alarm Sensitivity (0.015 % obsc./m) (0.5 % obsc./ft) (0.10 % obsc./m)

3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type

FW-TT-1 (FW-TT-2; for indicating external shutdown: FW-TT-3)

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



TORONTO: (905) 761-6355 Toll Free: (800) 267-8508

VANCOUVER: (604) 420-1131 Toll Free: (800)-667-2138

BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870 Toll Free: (888)-891-1008

CALGARY: (403) 236-5661

MONCTON: (506) 859-7277 Toll Free: (877) 816-3473 MISSISSAUGA: (905) 565-1385

www.nationalfire.com

Version: 09/2018



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Standard and SILENT-Version

TITANUS® aspirating smoke detector

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Advantage

- Modular design for cost effective solutions to fit the needs on
- · 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.
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- 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 100 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 Bar graph smoke level display
- 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 TOP SENS® cold storage version

Approvals







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TITANUS TOP-SENS® | Components

1

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TITANUS TOP-SENS® TITANUS TOP·SENS® System SILENT Version Standard Version 1 Basic Device TT-1-U TT-1-SL-U Max. Main Alarm Sensitivity 0.005 % obsc./ft (0.015 % obsc./m) No. of Detector Modules (Zones) 1 or 2 2 x 63 Max. No. of Aspiration Holes 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 1 x 980 ft (1 x 300 m) per zone Max. Pipe Length Cross-Zoning Alarm Verification optional with 2nd detector module No. of Alarm Levels per Zone No. of Output Relays (1 A / 30 VDC) 8 relays (changeover / form C) Front Indicators Fault; Operation; per Zone: 3 x Alarm, 1 x Bar Graph (Smoke Level) optional(2) Ethernet / SNMP / Data Logger (SD Card) Binary Data Logger standard Supply Voltage 24 V DC (14 to 30 V DC) 200 mA Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm 230 mA 180 mA Current Consumption min. Operational 230 mA 190 mA (2 Detector Module, 24 V DC) Alarm 290 mA 220 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) 4.5 x 7.9 x 11.5 inches (113 x 200 x 292 mm) **Dimensions** 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 2 Detector Modules DM-TT-50-L-U DM-TT-10-L-U

Type 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 Max. Main Alarm Sensitivity (0.5 % obsc./ft) (0.10 % obsc./m) (0.015 % obsc./m)

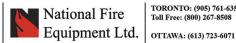
3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type

FW-TT-1 (FW-TT-2; for indicating external shutdown: FW-TT-3)

- (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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