

National Fire Equipment Ltd.

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·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 crosszoning alarm verification. TITANUS PRO·SENS® / net comes with dry contacts for connection to any fire panel as well as free slots for inserting bus

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.
- 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
- 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
- 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

Approvals







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

www.nationalfire.com



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TITANUS PRO·SENS® / net | Components



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

TITANUS PRO-SENS® / net TITANUS PRO-SENS® / net System SILENT Version Standard Version 1 Basic Device TT-4-U TT-4-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 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 No. of Output Relays (1 A / 30 VDC) 6 relays (changeover / form C) Front Indicators Fault; Operation; per Zone: 2 x Alarm optional(2) Ethernet / SNMP / Data Logger (SD Card) standard Binary Data Logger Supply Voltage 24 V DC (14 to 30 V DC) 210 mA "Current Consumption min. Operational (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) 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)

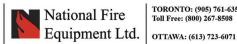
3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type

FW-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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