



National Fire Equipment Ltd.

Aspirating Smoke Detector TITANUS PRO·SENS® / net

Cold Storage Version TP-3-F-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·SENS™ 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 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 service.

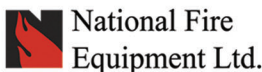
Features

- 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 sensitivity
- LOGIC·SENS™ 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
- 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®/net standard and SILENT version

Approvals



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



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National Fire Equipment Ltd.

Aspirating Smoke Detector TITANUS PRO-SENS® / net

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

System

TITANUS PRO-SENS® / net

Cold Storage Version

1 Basic Device

Type	TP-3-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 Aspiration Holes	2 x 63
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	1
No. of Output Relays (1 A / 30 VDC)	4 relays (changeover / form C)
Front Indicators	Fault; Operation; per Zone: 1 x Alarm
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽¹⁾
Binary Data Logger	standard
Supply Voltage	24 V DC (14 to 30 V DC)
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA
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

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (0.015 % obsc./m)

3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type **FW-TP-1 (FW-TP-2; for indicating external shutdown: FW-TP-3)**

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



National Fire Equipment Ltd.

Aspirating Smoke Detector TITANUS PRO·SENS® / net

Standard and SILENT-Version TP-3(-SL)-U

TITANUS® aspirating smoke detector

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Technology

TITANUS PRO·SENS® / net aspirating smoke detection system combines High-Power-Light-Source (HPLS) technology with patented LOGIC·SENS™ 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 modules.

Advantage

- 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 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™ 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
- Pre-alarm option
- 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

Approvals



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Aspirating Smoke Detector TITANUS PRO-SENS® / net

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

System	TITANUS PRO-SENS® / net Standard Version	TITANUS PRO-SENS® / net SILENT Version
1 Basic Device		
Type	TT-3-U	TT-3-SL-U
Max. Main Alarm Sensitivity	0.005 % obsc./ft (0.015 % obsc./m)	
No. of Detector Modules (Zones)	1 or 2	
Max. No. of Aspiration Holes	2 x 63	1 x 100 or 2 x 72 ⁽¹⁾
Max. Area of Coverage	64,560 ft ² (6,000 m ²) per system / 32,280 ft ² (3,000 m ²) 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 (changeover / form C)	
Front Indicators	Fault; Operation; per Zone: 1 x Alarm	
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽²⁾	
Binary Data Logger	standard	
Supply Voltage	24 V DC (14 to 30 V DC)	
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA 210 mA	130 mA 140 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA 240 mA	160 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⁾
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	

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (0.015 % obsc./m)

3 Adhesive Front Film Sheets

Using 1(2) Detector Modules, Type **FW-TP-1 (FW-TP-2; for indicating external shutdown: FW-TP-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-D0
 (3) As low as 31 dB (A) without sound absorber type SD-1



National Fire Equipment Ltd.

Aspirating Smoke Detector TITANUS PRO·SENS® / net

Cold Storage Version TP-4-F-U

TITANUS® aspirating smoke detector

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Technology

TITANUS PRO·SENS® / net aspirating smoke detection system combines High-Power-Light-Source (HPLS) technology with patented LOGIC·SENS™ 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 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 service.

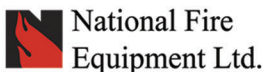
Features

- 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 sensitivity
- LOGIC·SENS™ 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
- 2 alarm levels per detector module for tiered alerting
- 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® / net standard and SILENT version

Approvals



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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

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

1 Basic Device

Type	TP-4-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 Aspiration Holes	2 x 63
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	2
No. of Output Relays (1 A / 30 VDC)	6 relays (changeover / form C)
Front Indicators	Fault; Operation; per Zone: 2 x Alarm
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽¹⁾
Binary Data Logger	standard
Supply Voltage	24 V DC (14 to 30 V DC)
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA 220 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA 250 mA
Operating Temperature	-40 °F to +140 °F (-20 °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

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (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⁾ Network Module with Data Logger: NU-5-D-F; Data Logger only: NU-5-DO-F



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Aspirating Smoke Detector TITANUS PRO·SENS® / net

Standard and SILENT-Version TP-4(-SL)-U

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Technology

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Advantage

- 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.
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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™ 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 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

Approvals



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TITANUS PRO-SENS® / net | Components



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TITANUS PRO-SENS® / net

System	TITANUS PRO-SENS® / net Standard Version	TITANUS PRO-SENS® / net SILENT Version
1 Basic Device		
Type	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	
Max. No. of Aspiration Holes	2 x 63	1 x 100 or 2 x 72 ⁽¹⁾
Max. Area of Coverage	64,560 ft ² (6,000 m ²) per system / 32,280 ft ² (3,000 m ²) 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	2	
No. of Output Relays (1 A / 30 VDC)	6 relays (changeover / form C)	
Front Indicators	Fault; Operation; per Zone: 2 x Alarm	
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽²⁾	
Binary Data Logger	standard	
Supply Voltage	24 V DC (14 to 30 V DC)	
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA 220 mA	130 mA 140 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA 250 mA	160 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⁾
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	

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (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-D0
 (3) As low as 31 dB (A) without sound absorber type SD-1



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Cold Storage Version TP-5-F-U

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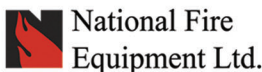
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- LOGIC·SENS™ for very high immunity to false alarms
- PIPE·GUARD patented air flow monitoring system, sensing changes in total airflow as little as +/-10 %
- Optional 2nd detector module for cross-zoning alarm verification or increased area of coverage
- 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: -40 °F to +140 °F (-40 °C to +60 °C) depending on version
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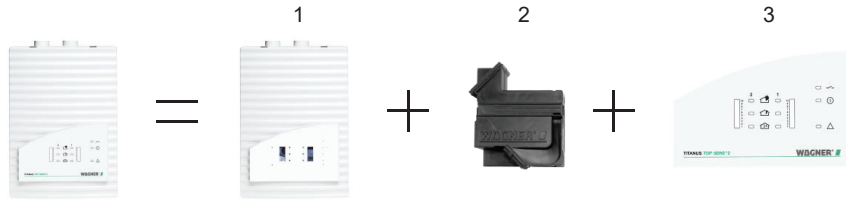
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TITANUS PRO-SENS® / net

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

1 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 Aspiration Holes	2 x 63
Max. Area of Coverage	64,560 ft ² (6,000 m ²) per system / 32,280 ft ² (3,000 m ²) 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 Indicators	Fault; Operation; per Zone: 3 x Alarm
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽¹⁾
Binary Data Logger	standard
Supply Voltage	24 V DC (14 to 30 V DC)
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA 220 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA 250 mA
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

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (0.015 % obsc./m)

3 Adhesive Front Film Sheets

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



National Fire Equipment Ltd.

Aspirating Smoke Detector TITANUS PRO-SENS® / net

Standard and SILENT-Version TP-5(-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-SENS™ 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 modules.

Advantage

- 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 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™ 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
- 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

Approvals



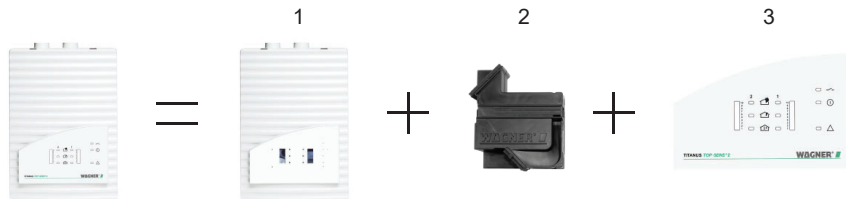
Additional approvals on request and / or at www.wagnergroup.com



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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

System	TITANUS PRO-SENS® / net Standard Version	TITANUS PRO-SENS® / net SILENT Version
1 Basic Device		
Type	TT-5-U	TT-5-SL-U
Max. Main Alarm Sensitivity	0.005 % obsc./ft (0.015 % obsc./m)	
No. of Detector Modules (Zones)	1 or 2	
Max. No. of Aspiration Holes	2 x 63	1 x 100 or 2 x 72 ⁽¹⁾
Max. Area of Coverage	64,560 ft ² (6,000 m ²) per system / 32,280 ft ² (3,000 m ²) 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 Indicators	Fault; Operation; per Zone: 3 x Alarm	
Ethernet / SNMP / Data Logger (SD Card)	optional ⁽²⁾	
Binary Data Logger	standard	
Supply Voltage	24 V DC (14 to 30 V DC)	
"Current Consumption min. Operational (1 Detector Module, 24 V DC) Alarm"	210 mA 220 mA	130 mA 140 mA
"Current Consumption min. Operational (2 Detector Module, 24 V DC) Alarm"	240 mA 250 mA	160 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⁾
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	

2 Detector 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
Max. Main Alarm Sensitivity	0.15 % obsc./ft (0.5 % obsc./ft)	0.03 % obsc./ft (0.10 % obsc./m)	0.005 % obsc./ft (0.015 % obsc./m)

3 Adhesive Front Film Sheets

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-D0
 (3) As low as 31 dB (A) without sound absorber type SD-1