Aspirating Smoke Detector

TITANUS TOP·SENS®

Standard and SILENT-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

Features

TITANUS *TOP·SENS*® 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 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.

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 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 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



Advantages

- Modular design for cost effective solutions to fit the needs on side.
- 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.

Approvals







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

TITANUS TOP·SENS®			
System	TITANUS TOP·SENS®	TITANUS TOP·SENS®	
System	Standard Version	SILENT Version	
1 Basic Device	Standard Version	SILLIVI VEISIOII	
	TT-1-U	TT-1-SL-U	
Туре			
Max. Main Alarm Sensitivity	0.005 % obsc./ft (0.015 % obsc./m)		
No. of Detector Modules (Zones)	1 or 2		
Nav. No. of Assistation Holos	2 62	1 100 2 72 1	
Max. No. of Aspiration Holes	2 x 63	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 zo		
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Cross-Zoning Alarm Verification	optional with 2nd detector module		
No. of Alarm Levels per Zone	3		
		(6. 5)	
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)	
Ethernet / SNMP / Data Logger (SD Card)	optic	onal ²	
Binary Data Logger	standard		
	24 V DC (14		

 $^{^2}$ 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



 $^{^{\}mbox{\tiny 1}}$ Fan Controller Type FC-3 required for more than 63 holes per detector module

Current Consumption min. Operational	200 mA	150 mA
(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 % (r	ioncondensing)
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 (1	13 x 200 x 292 mm)
Weight (Basic Configuration)	3.0 lbs + 0.22 lbs (1,350 g + 10	0 g) per detector module
Pipe Specification	63 / 64 inch	ies (25 mm)
IP Rating		s:andard: IP-2 20 / optional: IP

Detector Modules				
Туре	DM-TT-50-L-U	DM-TT-10-	DM-TT-10-DM-TT-01-	
		L-U	L-U	
Weight		0.22 lbs		
		(100 g)		
Sensitivity Rating	Standard	Medium	High	
Max. Main	0.15 % obsc./ft	0.03 %	0.005 %	
Alarm		obsc./ft	obsc./ft	
Sensitivity				
	(0.5 % obsc./ft)	(0.10 %	(0.015 %	
		obsc./m)	obsc./m)	
3 Adhesive Front Film She	ets			

Using 1(2) Detector Modules, Type

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