



## TITANUS® – EARLIEST POSSIBLE FIRE DETECTION FOR THE FASTEST POSSIBLE RESPONSE

The TITANUS® family of air sampling smoke detectors covers medium to high-sensitivity ASD applications as well as a wide range of extreme applications, without compromising high levels of sensitivity and performance.

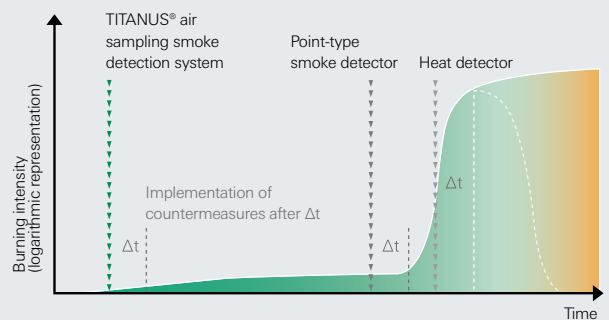
### General Features

- HPLS for standard to very high sensitivity
- LOGIC·SENS to ensure accuracy and prevent false alarms
- PIPE·GUARD patented air flow monitoring system
- Designed for the harshest environments, with a wide range of accessories for special applications
- Free software: TITANUS® *PipeXpress* automates system design with just a few mouse clicks

### Options

- System coverage up to 32,280 sq ft per detector module
- Optional 2<sup>nd</sup> detector module for cross-zoning alarm verification or double coverage area
- ROOM·IDENT version provides individual indication for up to 5 separate rooms
- Up to 984 ft pipe length and up to 100 holes per detector module
- Smoke level bar graph display
- Up to 3 alarm levels for a tiered alarm concept
- Ethernet (TCP/IP) / SNMP / data logger option
- Operating temperature: -40°F to +140°F
- Sound pressure as low as 23 dB(A)

### Fire development and detection



**WAGNER®**

# TITANUS® Product Family

Overview



Type Description	TITANUS® PRO-SENS®			TITANUS® PRO-SENS®		
	basic features			2x2 alarms		
	TP-1-U	TP-1-F-U	TP-1-SL-U	TP-4-U	TP-4-F-U	TP-4-SL-U
	standard	cold storage	silent	standard	cold storage	silent

<b>Max. "Main Alarm" Sensitivity</b>						
Option 1) 0.005% obsc./ft (0.015% obsc./m)	✓			✓		
Option 2) 0.03% obsc./ft (0.10% obsc./m)	✓			✓		
Option 3) 0.15% obsc./ft (0.50% obsc./m)	✓			✓		
<b>Max. No. of Detector Modules</b>	2			2		
<b>Max. No. of Aspiration Holes</b>	2x63		1x100 or 2x72	2x63		1x100 or 2x72
<b>Max. Area of Coverage (System Limitation)</b>	2 x 32,280 sq ft (2 x 3,000 sq m)			2 x 32,280 sq ft (2 x 3,000 sq m)		
<b>Max. Pipe Length</b>	2 x 984 ft (2 x 300 m)			2 x 984 ft (2 x 300 m)		
<b>Cross-Zoning Alarm Verification with 2<sup>nd</sup> Detector Module</b>	✓			✓		
<b>No. of Alarm Levels per Detector Module</b>	1			2		
<b>No. of Output Relays (1 A / 30 VDC)</b>	4			6		
<b>Bar Graph Smoke Level Indicator</b>	-			-		
<b>Supply Voltage 24 V DC (14 to 30 V DC)</b>	✓			✓		
<b>Supply Voltage 24 V DC (16 to 30 V DC)</b>	-			-		
<b>Current Consumption (Quiescent, 24 V), max. 240 mA*</b>	✓			✓		
<b>Current Consumption (Quiescent, 24 V), max. 105 mA*</b>	-			-		
<b>Operating Temperature -4°F to +140°F (-20°C to +60°C)</b>	✓	-	✓	✓	-	✓
<b>Operating Temperature -40°F to +140°F (-40°C to +60°C)</b>	-	✓	-	-	✓	-
<b>Sound Pressure Level (ISO 3744) as low as 45 dB(A)</b>	✓	✓	-	✓	✓	-
<b>Sound Pressure Level (ISO 3744) as low as 23 dB(A)</b>	-	-	✓	-	-	✓
<b>Relative Humidity 10 to 95% Noncondensing</b>	✓			✓		
<b>IP Rating: Standard (Option)</b>	IP 20 (optional: IP 52)			IP 20 (optional: IP 52)		
<b>Ethernet / SNMP / Data Logger</b>	-			optional		
<b>Binary Data Logger</b>	✓			✓		
<b>Approvals</b>	UL, ULC, FM, CPD (VdS, EN 54-20), ISO 7240-20, LR, GL, NF and others, depending on versions,					

\*) Maximum current consumption at standard fan voltage, can be lower depending on version



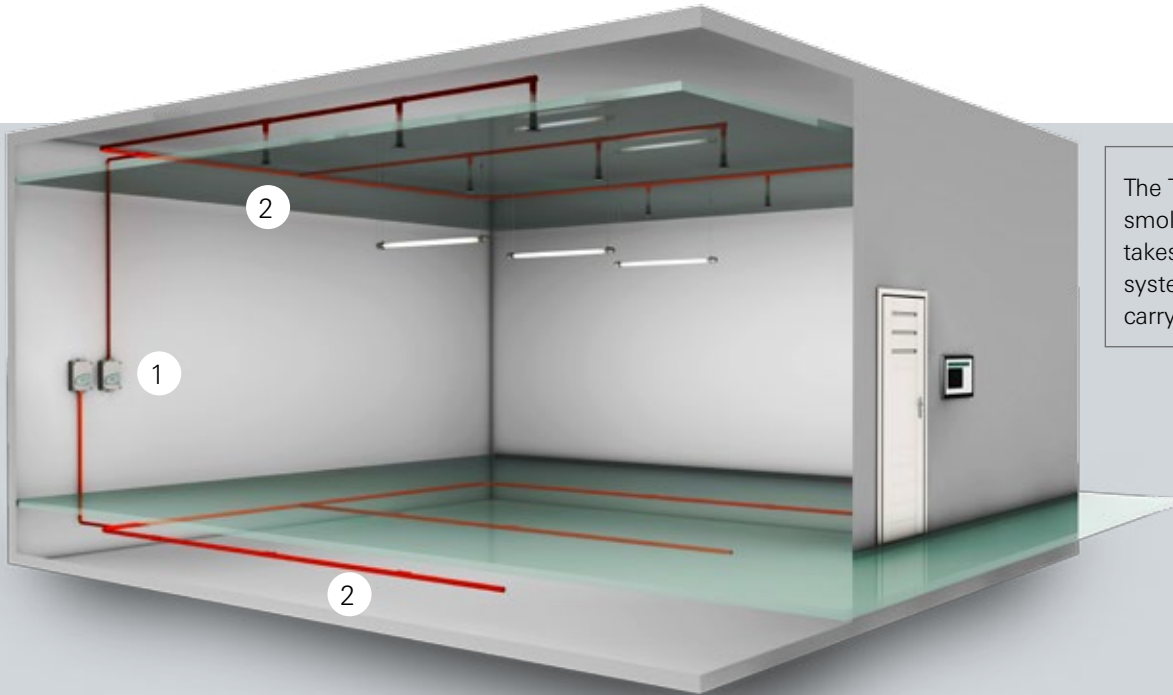
TITANUS <sup>®</sup> <i>TOP-SENS</i> <sup>®</sup> /net			TITANUS <sup>®</sup> <i>TOP-SENS</i> <sup>®</sup>			TITANUS <i>MICRO-SENS</i> <sup>®</sup>		
2x3 alarms			fully equipped			small coverage area		addressable ports
TP-5-U	TP-5-F-U	TP-5-SL-U	TT-1-U	TT-1-F-U	TT-1-SL-U	DM-TMV-(B-)xx-U	DM-TMV-(B-)xx-F-U	DM-TMV-R(B)-xx-U
standard	cold storage	silent	standard	cold storage	silent	standard	cold storage	ROOM-IDENT
✓				✓			-	-
✓				✓			✓	✓
✓				✓			✓	✓
2			2			1 (integrated)		1 (integrated)
2x63	1x100 or 2x72		2x63	1x100 or 2x72		8		5
2 x 32,280 sq ft (2 x 3,000 sq m)			2 x 32,280 sq ft (2 x 3,000 sq m)			4,300 sq ft (400 sq m)		4,300 sq ft (400 sq m)
2 x 984 ft (2 x 300 m)			2 x 984 ft (2 x 300 m)			164 ft (50 m)		130 ft (40 m)
✓				✓		-		-
3			3			2		2
8			8			2 (option: +5)		2 (option: +5)
-			✓			optional		optional
✓				✓		-		-
-			-			✓		✓
✓				✓		-		-
-			-			✓		✓
✓	-	✓	✓	-	✓	✓	-	✓
-	✓	-	-	✓	-	-	✓	-
✓	✓	-	✓	✓	-	✓		✓
-	-	✓	-	-	✓	-		-
✓			✓			✓		✓
IP 20 (optional: IP 52)			IP 20 (optional: IP 52)			IP 54		IP 54
optional			optional			optional		optional
✓			✓			✓		✓

see data sheets or contact WAGNER. TITANUS *MICRO-SENS*<sup>®</sup> without FM approval.

and/or if equipped with 1 detector module only

## TITANUS®: SNIFFS OUT SMOKE FASTER THAN ANYTHING ELSE ON THE MARKET

TITANUS® is a highly sensitive fire detection system that continually samples the air, sensing smoke up to 2000 times faster than traditional detectors. Yet TITANUS® is so accurate, you never have to worry about a false alarm.



The TITANUS® air sampling smoke detection system **1** takes air samples through a pipe system **2** from the areas that carry a risk.

### Technology

TITANUS® offers a modular design that facilitates cost-effective solutions for a wide range of specialized application requirements. The system integrates High-Power-Light-Source (HPLS) technology coupled with our patented LOGIC-SENS fire pattern recognition algorithms and a wide range of custom accessories - maintaining high levels of sensitivity and immunity to false alarms even in challenging environments such as heavy industry and recycling plants. An optional second plug-in detector module allows a single air sampling unit to economically monitor two separate areas, or support cross-zoned alarm verification.

### Main Features

TITANUS® air sampling smoke detectors incorporate up to 3 alarm levels for a tiered alarm concept, and include dry contacts for connection to any fire panel as well as free slots for inserting optional accessory modules. Our unique PIPE-GUARD advanced airflow monitoring technology monitors all system airflow through the piping and detection chamber, sensing changes of as little as +/-10%.

### Pipe Planning

TITANUS® PipeXpress offers a cutting-edge ASD pipe planning software, setting new standards by ensuring fast and easy pipe design. This allows highly reliable ASD planning with just a few mouse clicks.

### Full-Service Installation & Support

Consistent system architecture together with common installation and service protocols throughout the entire TITANUS® product line round out the integrated TITANUS® concept, resulting in substantial benefits for ESDs, installers and end users.

### For more information:

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