

## TITANUS PRO-SENS®

TITANUS PRO-SENS® features the following performance characteristics and extension options:

- By using two detector modules, the area of coverage can be doubled or a cross-zoning alarm verification can be established.
- A cold storage variant is available for use in applications down to -40 °C.

Thanks to the wide range of accessories, the system can be used even under the most demanding environmental conditions. Installer-oriented tools ensure time-optimized commissioning and maintenance. TITANUS PRO-SENS® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



### Device components



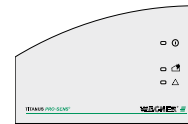
**TITANUS PRO-SENS®**



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### Accessories



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**Commissioning tools  
and maintenance**  
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**Performance characteristics:**

- Device prepared for installing up to two type DM-TP-xx-L detector modules, compliant with Classes A, B and C in accordance with EN 54-200
- Depending on variant, with four visual status indicators at the housing front
- With four dry contacts for forwarding the alarm and fault reports to fire alarm control panels
- Free slots for easily extending the basic configuration
- Connection option for alarm indicators
- Connection sockets for two air sampling pipes with an outer diameter of 25 mm
- Connection socket for air return
- Diagnostic tool for extensive service information and hints for troubleshooting

**TITANUS PRO-SENS® basic devices with front film sheets**

Aspirating smoke detectors for active early fire detection for room monitoring of up to two areas of 3,000 m<sup>2</sup> each (max. 1,600 m<sup>2</sup> acc. to standard) and for equipment monitoring. The detectors feature one alarm level per detector module. Depending on the variant, they can be operated at a sound pressure level of 23 dB(A) and above or from –40 °C.

<b>D</b>	<b>ValS</b>	G 202064
<b>AT</b>	<b>PBST</b>	FT 14/648/02/02
<b>EU</b>	<b>CPD</b>	0786-CPD-20685

**Data sheet excerpt:**

Operating voltage	14 to 30 VDC
Rated voltage	24 VDC
Start-up current limitation to	max. 350 mA*
Number of relays	4 (variants without bus coupler)
Max. contact load	1 A / 30 VDC, max. 24 W
Storage temperature range	–45 °C to +65 °C
Max. rel. humidity, operation	95% rh (non-condensing)
Dimensions (W × H × D)	200 × 292 × 113 mm
Net weight without (with) bus coupler	approx. 1,350 g (1,500 g)
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

\* From 270 mA in the SL variant

**VPE** 1 unit (applies to all articles below)

**Project planning framework for the basic devices with detector modules**

Maximum sensitivity in main alarm [% obs/m]	Basic device variant	Max. sampling points			Max. pipe length [m]		
		Class C	Class B	Class A	Total	I-pipe	
0.015	Standard	2 × 63	2 × 63	2 × 40	2 × 300	2 × 200	
	SILENT						
	SILENT (12 V)*	1 × 100 / 2 × 72	1 × 100 / 2 × 72				
	Cold storage	2 × 63	2 × 63				
0.1	Standard	2 × 40	1 × 32 / 2 × 24	2 × 9	2 × 300	2 × 200	
	SILENT						
	SILENT (12 V)*		2 × 32				
	Cold storage		1 × 32 / 2 × 24				
0.5	Standard	2 × 15	2 × 7	2 × 3	2 × 300	2 × 200	
	SILENT						
	SILENT (12 V)*						
	Cold storage						

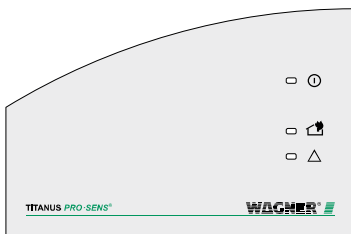
Data apply without pipe accessories; with pipe accessories, see project planning tables according to technical manual

\* Fan board type FC-3 (09-20-6830) required

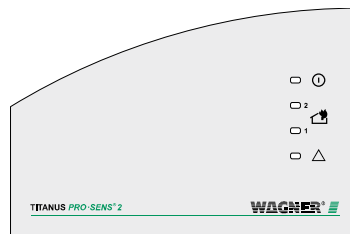
Basic devices							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Current draw at stand-by (alarm) @ 24 V DC when using	
						1 detector module [mA]	2 detector modules [mA]
Standard	1 (main alarm)	45	−20 to +60	AD-05-0457	TP-1/a	200 (210)	220 (240)
<i>SILENT</i>		23*	0 to +40	AD-05-0458	TP-1-SL	140 (150)	170 (180)
Cold storage		45	−40 to +60	AD-05-0467	TP-1-F/a	200 (210)	220 (240)

\* When using the type SD-1/a sound absorber (art. no.: AD-10-1980)

Related front film sheets				
Alarm levels per detector module	When using 1 detector module		When using 2 detector modules	
	Article number	Type	Article number	Type
1 (main alarm)	AD-10-1035	FW-TP-1	AD-10-1037	FW-TP-2



Type: FW-TP-1 (art. no.: AD-10-1035)



Type: FW-TP-2 (art. no.: AD-10-1037)



**TITANUS PRO-SENS® detector modules**

Detector modules with the innovative high-power light source (HPLS) for highly sensitive detection of fire aerosols and for consistent response behavior with all types of fires according to EN 54-20, Classes A, B and C. Quick and easy parameterization (e.g. sensitivity, alarm delay period, air flow threshold) via DIL switches.

**Data sheet excerpt:**

Storage temperature range	-45 °C to +65 °C
Net weight	100 g
Housing material	ABS plastics

VPE 1 unit

**i** Only for use in TITANUS PRO-SENS®

**Common performance characteristics:**

- False alarm suppression LOGIC-SENS®
- Fast commissioning thanks to automated initialization
- Status indicator for status and fault diagnosis
- For tool-free installation in TITANUS PRO-SENS® aspirating smoke detectors

	Version			Standard variants		Cold storage variants	
	Operating temperature range			-20 °C to +60 °C		-40 °C to +60 °C	
	Maximum sensitivity in main alarm [% obs/m]	Sensitivity levels [% obs/m]	PIPE-GUARD Air flow monitoring	Article number	Type	Article number	Type
With air flow sensor	0.015	0.015	From +/- 10% deviation	AD-10-5115	DM-TP-01-L	AD-10-5195	DM-TP-01-L-F
		0.030					
		0.060					
		0.120					
	0.1	0.1	From +/- 10% deviation	AD-10-5100	DM-TP-10-L	AD-10-5190	DM-TP-10-L-F
		0.2					
		0.4					
		0.8					
	0.5	0.5	From +/- 10% deviation	AD-10-5130	DM-TP-50-L	AD-10-5200	DM-TP-50-L-F
1.0							
Without air flow sensor	0.1	0.1	(without)*	AD-10-5145	DM-TP-10-Lp	-	-
		0.2					
		0.4					
		0.8					
	0.5	0.5	(without)*	AD-10-5155	DM-TP-50-Lp	-	-
		1.0					

\* Variants without air flow sensors exclusively for use as a second detector module to establish a cross-zoning alarm verification with an air sampling pipe using a type PA-Y-P or type PY-Y-A adapter.