

TITANUS® Aspirating Smoke Detectors

Technical Information

1st edition

Europe



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WAGNER offers you

- Trend-setting technology with numerous unique selling points and a wide range of accessories
- Customer and price-oriented adaptation of the systems thanks to modular design
- Easy project planning and commissioning through installer-oriented tools, reliable support from competent application engineers

WAGNER – better solutions in fire protection

WAGNER has been your independent and reliable partner in fire protection for over 40 years. As a trend-setting solution and system provider, the company has long since established itself internationally as a technology leader in fire protection through intensive development work and the experience gained from countless systems implemented worldwide. The modular structure of our product range combines the uncompromising demand for quality with the need for high variability and easy handling. In this way, we offer reliable fire protection even under the most difficult conditions, when seconds count in an emergency.



Earliest fire detection with TITANUS®

Earliest possible and highly sensitive fire detection for protecting people, assets and operational processes.



Fire extinguishing with FirExting®

The optimum extinguishing agent for every application: Nitrogen, argon or IG 541, carbon dioxide and Novec™ 1230.



Hazard management

Central hazard management for interconnecting individual, autonomously operated safety systems.



Fire prevention with OxyReduct®

The active oxygen reduction system OxyReduct® takes preventive action to ensure that fires cannot develop in the first place.

Fascination fire protection

The desire to protect people from loss caused by fire is what drives us forward. The solutions we offer our customers lie at the core of our day-to-day activities. In close collaboration with our customers and partners, we are committed to further developing practical concepts and improving technical details. Through constant cooperation with research facilities and institutes, the latest scientific findings are promptly incorporated into our developments.

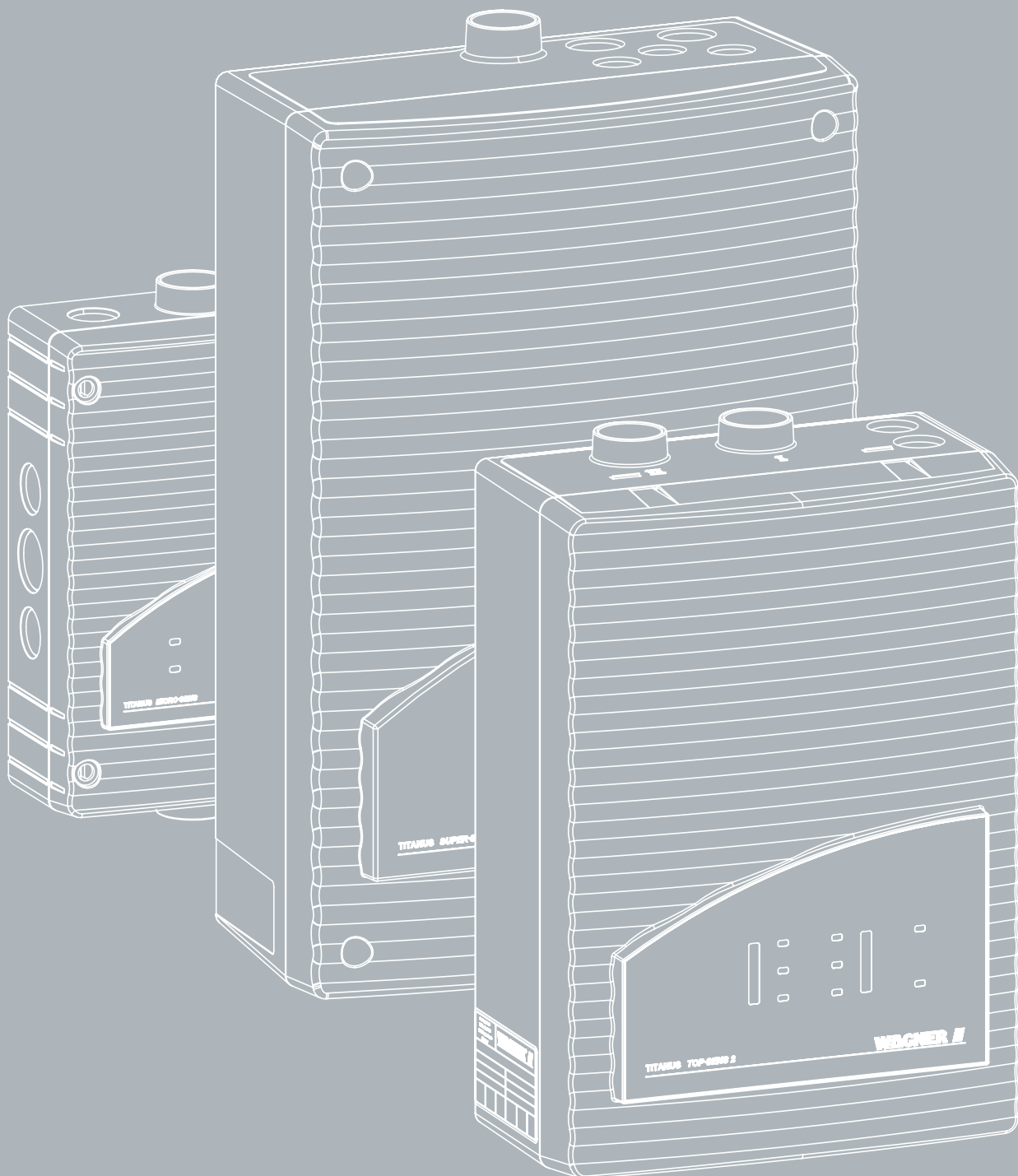
Innovative products

From individual components to complete systems: We supply a product range that is at the forefront of the competition. It offers not only innovative technology and

maximum reliability, but also a modular design for perfect tailoring to the required task. Easy project planning, intuitive handling and low-service operation also result in significant economic benefits.

Reliability in every respect

Long-term collaboration with our customers and partners that comes from a place of trust is especially important to us. It guarantees you and us sound application knowledge and the continuous further development of our products. We tailor our solutions holistically to your individual requirements. Do not hesitate to consult us for demanding applications. You can firmly rely on professional support from competent application engineers.



System overview

System definition

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System definition

The following chapters provide information on the TITANUS® product range compliant with VdS/EN 54-20 and PBST.

For information on products approved in accordance with UL/ULC/FM/LR/NF, please contact us.



TITANUS® device type

For small areas	TITANUS MICRO-SENS® The small-size aspirating smoke detector for equipment protection and for monitoring rooms of up to 400 m².
For medium-sized to large areas	TITANUS FUSION® The entry-level aspirating smoke detector for equipment protection and room monitoring with an area of coverage of up to 2 × 1,600 m² (system limit).
For very large areas	TITANUS PRO-SENS® (/net) WAGNER standard aspirating smoke detector for equipment protection and room monitoring with an area of coverage of up to 2 × 3,000 m² (system limit). Optionally with tiered alarm activation and network capability.
For very large areas	TITANUS TOP-SENS® Fully equipped WAGNER aspirating smoke detector for equipment protection and room monitoring with an area of coverage of up to 2 × 3,000 m² (system limit). With bargraph display, tiered alarm activation and network capability.
For monitoring cleanrooms	TITANUS SUPER-SENS® WAGNER aspirating smoke detector specifically designed for monitoring cleanrooms with an area of coverage of max. 2,000 m (system limit).
For monitoring 19" server and control cabinets	TITANUS RACK-SENS® WAGNER solution for integrating state-of-the-art aspirating smoke detection technology into 19" cabinets, from 1 U, optionally with integrated extinguishing function or extinguishing control.

EN 54-20

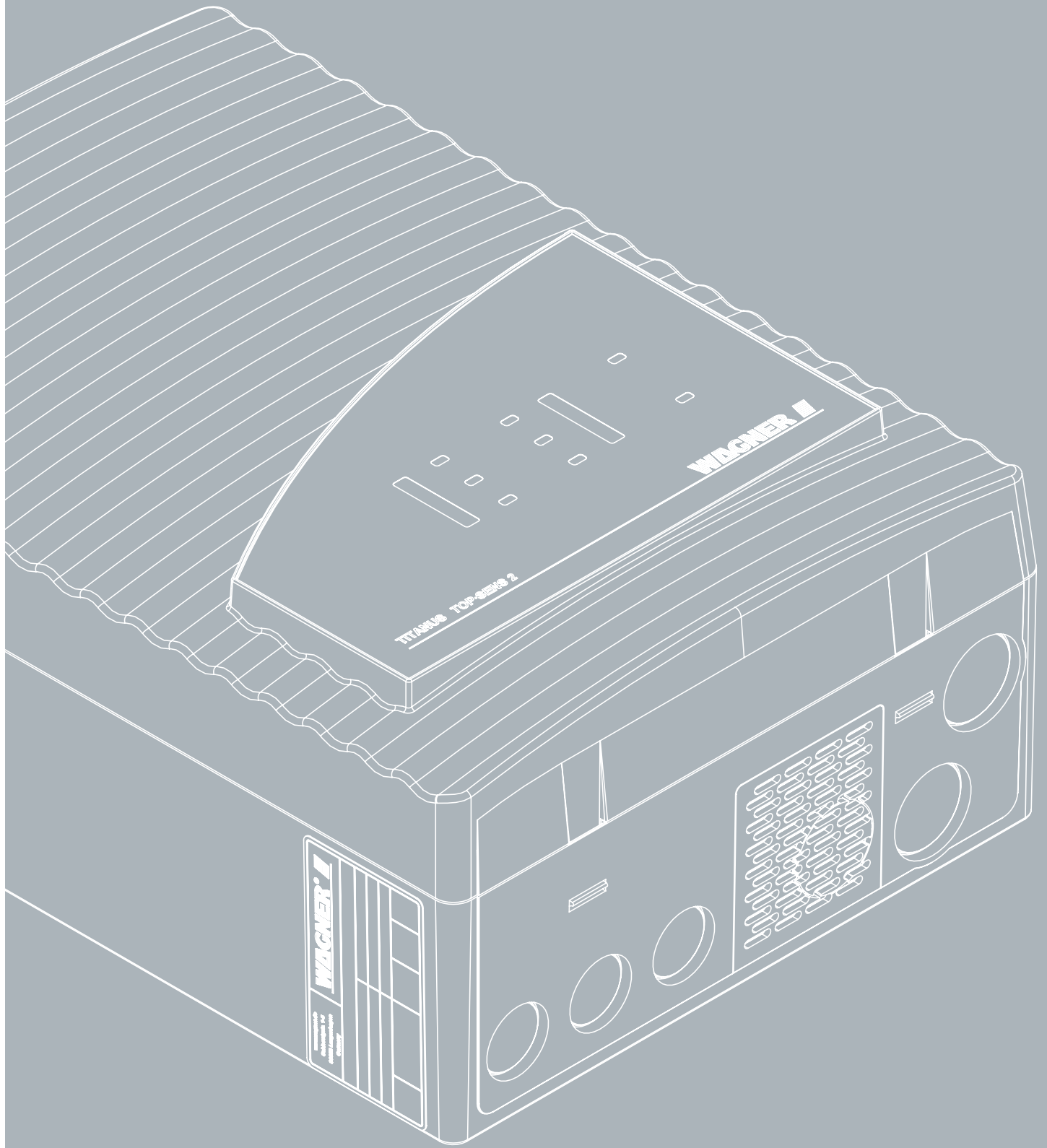
Classes A, B and C

Maximum alarm sensitivity*, Maximum display sensitivity*				Number of detector modules			Alarm thresholds per module		Bargraph		Temperature range [°C]*		Cross-zoning alarm verification type A*		Network capability		Max. pipe system length [m]		Max. number of sampling points		Min. noise level [dB(A)]	
				1	1-2	Opt.																
Alarm				1	1-2	Opt.	Min.: -40 Max.: +60		Opt.**		Opt.		50		8		40					
Display																						
Alarm				1-2	1	—	Min.: -30 Max.: +60		Yes		—		2 × 160		2 × 20		45 (23***)					
Display																						
Alarm				1-2	1-3	—	Min.: -40 Max.: +60		Yes		Opt.		2 × 300		1 × 100 or 2 × 72		45 (23***)					
Display																						
Alarm				1-2	3	Yes	Min.: -40 Max.: +60		Yes		Opt.		2 × 300		1 × 100 or 2 × 72		45 (23***)					
Display																						
Alarm				1	3	Yes	Min.: -20 Max.: +60		Opt.**		Opt.		200		24		51					
Display																						
Alarm				1-2	2	Opt.	Min.: 0 Max.: +60		Yes		Opt.		15		10		41					
Display																						

* Depending on equipment variant

** When using a detector box

*** When using the SL variant and the type SD-1 sound absorber



TITANUS® aspirating smoke detectors

TITANUS <i>MICRO·SENS</i> ®	Device components	12
	Complete set NEW	16
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TITANUS <i>RACK·SENS</i> ®		42

TITANUS MICRO-SENS®

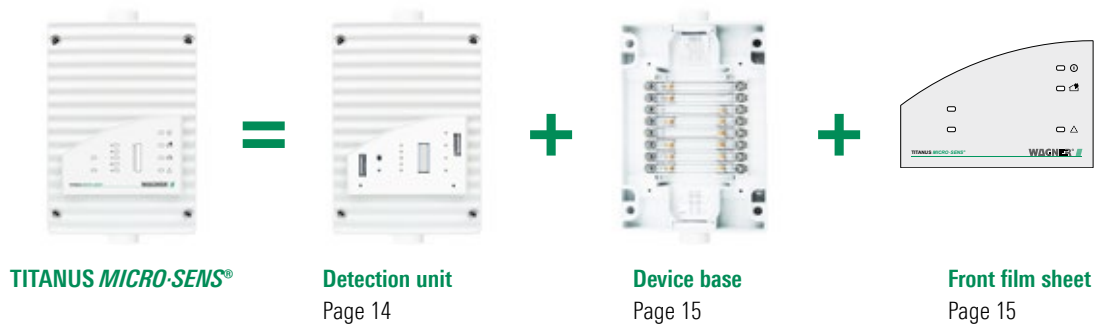
TITANUS MICRO-SENS® is the affordable, compact solution for protecting smaller to medium-sized areas and equipment. Nevertheless, it offers a wide range of performance characteristics and extension options:

- A version with ROOM-IDENT allows the localization of the seat of fire with the accuracy of a point-type smoke detector. The information is displayed on the device and on the monitored rooms.
- A version with additional fan is available for particularly high safety requirements.
- A cold storage variant enables the system to be used in applications down to $-40\text{ }^{\circ}\text{C}$.
- The optional network capability via Ethernet enables the integration of the device into existing or new hazard management systems.

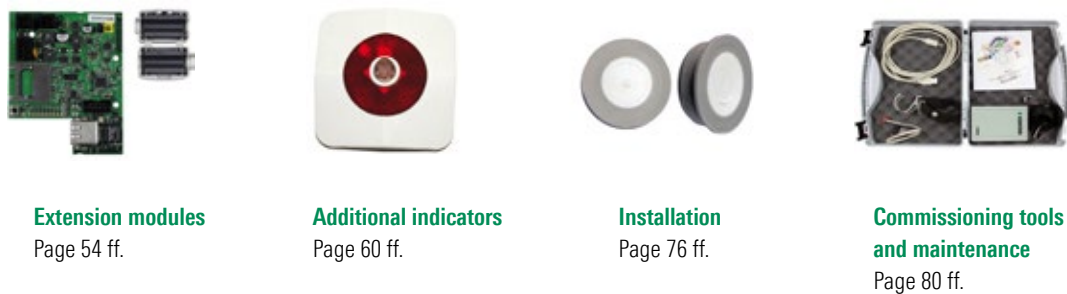
Thanks to the wide range of accessories, the system can be used even under the most demanding environmental conditions. Installer-oriented tools ensure time-optimized commissioning and maintenance. TITANUS MICRO-SENS® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



Device components



Accessories



Performance characteristics:

- Sensitivity from 0.1% obs/m in main alarm
- False alarm suppression LOGIC-SENS®
- PIPE-GUARD for detecting breakage or clogging of the connected pipe system
- Fast commissioning thanks to automatic initialization
- Dry alarm and fault contacts for connection to any kind of fire alarm control panel
- Optionally available with redundancy fan as an additional safety function in case of fan failure
- Prepared for connection of an Ethernet network module in the accessory housing for integration into hazard management systems
- Connection option for remote display
- Diagnostic tool for extensive service information and hints for troubleshooting

TITANUS MICRO-SENS® detection units with front film sheets and base

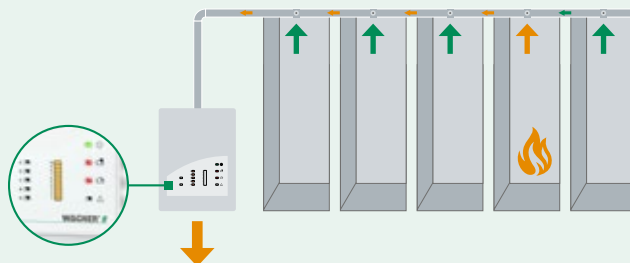
Aspirating smoke detectors for active early fire detection for room monitoring up to 400 m² and for equipment monitoring. The detectors feature visual status indicators for operation, faults and the available number of alarms.

D	VdS	G 206004
AT	PRST	FT 14/973/02/06
EU	CPR	CPR-E003

Data sheet excerpt:

Operating voltage	16 to 30 V DC
Rated voltage	24 V DC
Start-up current limitation to	150 mA
Number of relays	2, expandable*
Max. contact load	1 A / 30 V DC
Storage temperature range	–45 °C to +65 °C
Max. rel. humidity, operation	95% rh (non-condensing)
Dimensions (W × H × D)	140 × 200 × 65 mm
Dimensions with device base	140 × 220 × 70 mm
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

* With relay board type RU-1 (09-20-6680) for forwarding ROOM-IDENT localization reports or RU-2 (09-20-6681) for forwarding a pre-alarm signal



VPE 1 unit (applies to all articles below)

i Network module type NU-2 (09-20-6140) required for network integration

Project planning framework for detection units

Maximum sensitivity in main alarm [% obs/m]	Max. sampling points			Max. pipe length [m]	
	Class C	Class B	Class A	General	I-pipe*
0.1	1 × 8	1 × 8	1 × 8	1 × 50	1 × 40
0.5	1 × 8	1 × 6	1 × 2	1 × 50	1 × 40

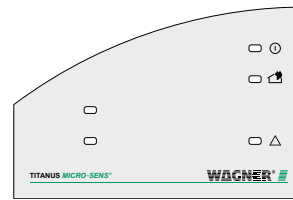
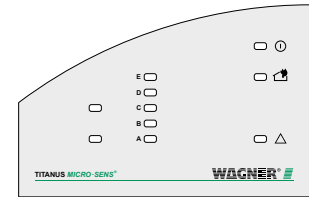
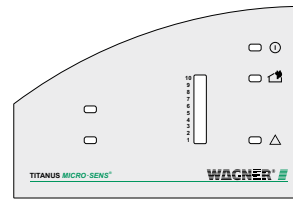
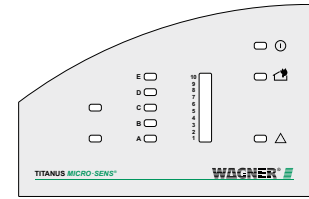
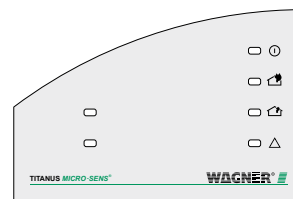
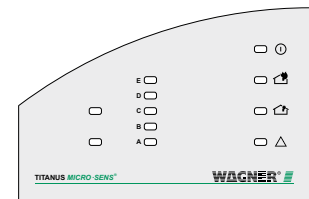
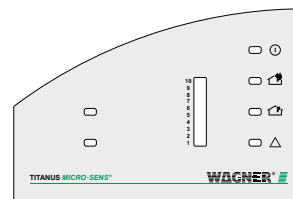
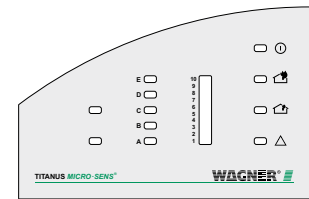
Data apply without pipe accessories; with pipe accessories, see project planning tables according to technical manual

* Air sampling pipe without branching

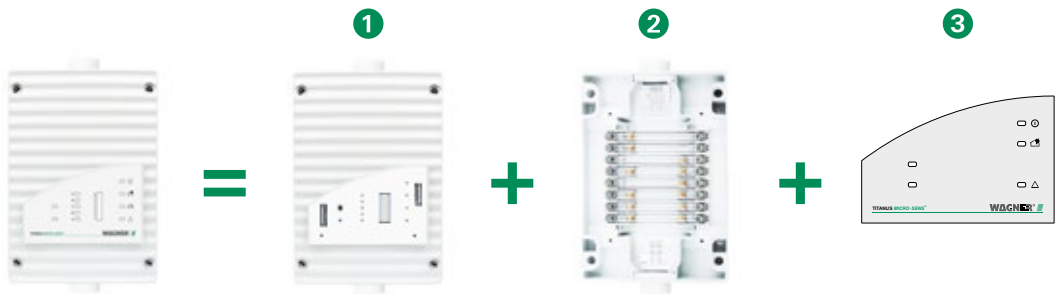
Detection units							
	Sensitivity in main alarm [% obs/m]	Operating temperature range [°C]	Number of alarm levels	Smoke bargraph display	Article number	Type	Current draw at stand-by (alarm) @ 24 VDC [mA]
Standard	0.1	–20 to +60	1	–	AD-05-4000	DM-TM-10	105 (110)
				×	AD-05-4020	DM-TM-B-10	105 (140)
		–20 to +60	2	–	AD-05-4521	DM-TMV-10	105 (120)
				×	AD-05-4524	DM-TMV-B-10	105 (150)
	0.5	–20 to +60	1	–	AD-05-4300	DM-TM-50	105 (110)
				×	AD-05-4320	DM-TM-B-50	105 (140)
		–20 to +60	2	–	AD-05-4531	DM-TMV-50	105 (140)
				×	AD-05-4534	DM-TMV-B-50	105 (150)
ROOM-IDENT	0.1	–20 to +60	1	–	AD-05-4010	DM-TM-R-10	105 (185)
				×	AD-05-4030	DM-TM-RB-10	105 (215)
		–20 to +60	2	–	AD-05-4522	DM-TMV-R-10	105 (195)
				×	AD-05-4525	DM-TMV-RB-10	105 (225)
	0.5	–20 to +60	1	–	AD-05-4310	DM-TM-R-50	105 (185)
				×	AD-05-4330	DM-TM-RB-50	105 (215)
		–20 to +60	2	–	AD-05-4532	DM-TMV-R-50	105 (195)
				×	AD-05-4535	DM-TMV-RB-50	105 (225)
Cold storage	0.1	–40 to +60	1	–	AD-05-4100	DM-TM-10-F	105 (110)
				×	AD-05-4120	DM-TM-B-10-F	105 (140)
		–40 to +60	2	–	AD-05-4529	DM-TMV-10-F	105 (120)
				×	AD-05-4530	DM-TMV-B-10-F	105 (150)
	0.5	–40 to +60	1	–	AD-05-4500	DM-TM-50-F	105 (110)
				×	AD-05-4520	DM-TM-B-50-F	105 (140)
		–40 to +60	2	–	AD-05-4539	DM-TMV-50-F	105 (120)
				×	AD-05-4540	DM-TMV-B-50-F	105 (150)
Detector box*	0.1	–20 to +60	1	–	AD-05-1500	DM-MB-TM-10	30 (38)
				×	AD-05-1510	DM-MB-TM-B-10	30 (68)
			2	–	AD-05-1505	DM-MB-TMV-10	30 (45)
				×	AD-05-1515	DM-MB-TMV-B-10	30 (75)
	0.5	–20 to +60	1	–	AD-05-1520	DM-MB-TM-50	30 (38)
				×	AD-05-1530	DM-MB-TM-B-50	30 (68)
			2	–	AD-05-1525	DM-MB-TMV-50	30 (45)
				×	AD-05-1535	DM-MB-TMV-B-50	30 (75)

* Detector box for detecting the smoke conducting branch or establishing a cross-zoning alarm verification

Related front film sheets			Device base	
Article number	Type	See figure	Article number	Type
AD-10-1400	FW-TM	A	AD-05-3500	HB-TM
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		
AD-10-1400	FW-TM	A		
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		
AD-10-1410	FW-TM-R	E	AD-05-3500	HB-TM
AD-10-1430	FW-TM-RB	F		
AD-10-1450	FW-TMV-R	G		
AD-10-1470	FW-TMV-RB	H		
AD-10-1410	FW-TM-R	E		
AD-10-1430	FW-TM-RB	F		
AD-10-1450	FW-TMV-R	G		
AD-10-1470	FW-TMV-RB	H		
AD-10-1400	FW-TM	A	AD-05-3500	HB-TM
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		
AD-10-1400	FW-TM	A		
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		
AD-10-1400	FW-TM	A	AD-05-3500	HB-TM
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		
AD-10-1400	FW-TM	A		
AD-10-1420	FW-TM-B	B		
AD-10-1440	FW-TMV	C		
AD-10-1460	FW-TMV-B	D		

Figure AArt. no. **AD-10-1400****Figure E**Art. no. **AD-10-1410****Figure B**Art. no. **AD-10-1420****Figure F**Art. no. **AD-10-1430****Figure C**Art. no. **AD-10-1440****Figure G**Art. no. **AD-10-1450****Figure D**Art. no. **AD-10-1460****Figure H**Art. no. **AD-10-1470**

TITANUS MICRO-SENS® complete set



The complete set consists of the detection unit (1), the device base (2) and the front film sheet (3).

TITANUS MICRO-SENS® complete set						NEW
Article number	Type	Maximum sensitivity in main alarm [% obs/m]	Operating temperature range [°C]	Number of alarm levels	Current draw at stand-by (alarm) @ 24 VDC [mA]	
AD-05-4595	TM-10	0.1	−20 to +60	1	105 (110)	
AD-05-4596	TM-50	0.5				
Noise level [dB(A)]	45					
Bus integration	Conventional line					
Max. pipe length [m]	50					
Max. sampling points	8					
Network	Optional					

TITANUS FUSION®

TITANUS FUSION® 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.
- The standard variant is available for use in applications down to $-30\text{ }^{\circ}\text{C}$.

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 FUSION® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



Device components



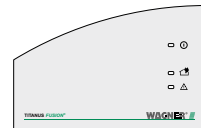
TITANUS FUSION®



Basic device
Page 20



1–2 detector modules
Page 21



Front film sheet
Page 20

Accessories



Extension modules
Page 58 ff.



Additional indicators
Page 61 ff.



Installation
Page 76 ff.



Commissioning tools and maintenance
Page 80 ff.

Performance characteristics:

- Device prepared for installing up to two type DM-TF-xx-L detector modules, compliant with Classes A, B and C in accordance with EN 54-20
- Depending on variant, with four visual status indicators at the housing front
- Depending on variant, with four dry contacts or integrated esserbus® coupler 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 FUSION® basic devices with front film sheets

Aspirating smoke detectors for active early fire detection for room monitoring of up to two areas of 1,600 m each 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 -30 °C.

D	VdS	G 216069
EU	CPR	0786 - CPR-21512

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 (approx. 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)
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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	General	I-pipe *
0.015	Standard	2 × 20	2 × 12	2 × 8	2 × 160	2 × 120
	SILENT					
0.1	Standard	2 × 20	2 × 12	2 × 8	2 × 160	2 × 120
	SILENT					
0.5	Standard	2 × 15	2 × 7	2 × 3	2 × 160	2 × 120
	SILENT					

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

* Air sampling pipe without branching

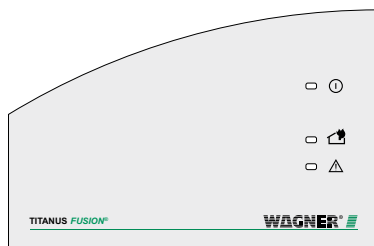
Basic devices							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Current draw at stand-by (alarm) @ 24 V DC when using	
						1 detector module [mA]	2 detector modules [mA]
Standard	1 (main alarm)	45	−30 to +60	AD-05-1140	TF-1	200 (210)	220 (240)
SILENT		23*	0 to +40	AD-05-1145	TF-1-SL	140 (150)	170 (180)

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

Basic devices with integrated esserbus® coupler							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Number of detector modules to be used	Current draw at stand-by (alarm) [mA]
Standard	1 (main alarm)	45	−10 to +50	AD-05-2200	TF-ZE-1	1	215 (240)
				AD-05-2205	TF-ZE-2	2	250 (290)
SILENT		23*	0 to +40	AD-05-2210	TF-SL-ZE-1	1	155 (190)
				AD-05-2215	TF-SL-ZE-2	2	190 (230)

* 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-10-1260	FW-TF-1	AD-10-1262	FW-TF-2



Type: FW-TF-1 (art. no.: AD-10-1260)



Type: FW-TF-2 (art. no.: AD-10-1262)



TITANUS FUSION® 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

Only for use in TITANUS FUSION®

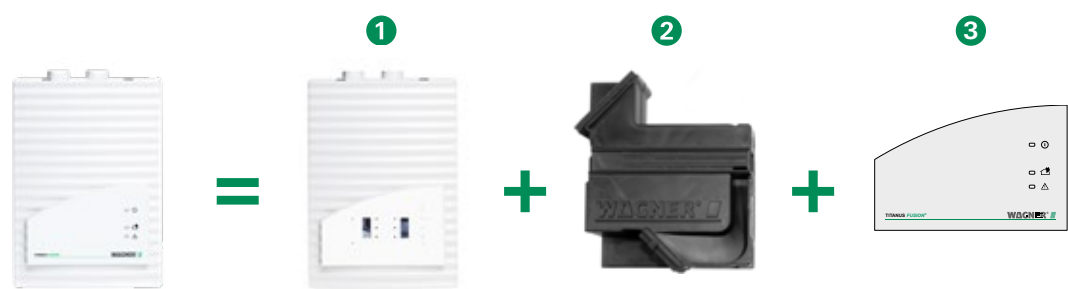
Common performance characteristics:

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

	Version			Expanded temperature range	
	Operating temperature range			–30 °C to +60 °C	
	Maximum sensitivity in main alarm [% obs/m]	Sensitivity levels [% obs/m]	PIPE-GUARD Air flow monitoring	Article number	Type
With air flow sensor	0.015	0.015	From +/– 10% deviation	AD-10-5600	DM-TF-01-L
		0.030			
		0.060			
		0.120			
	0.1	0.1	From +/– 10% deviation	AD-10-5605	DM-TF-10-L
		0.2			
		0.4			
		0.8			
	0.5	0.5	From +/– 10% deviation	AD-10-5610	DM-TF-50-L
		1.0			
Without air flow sensor	0.1	0.1	(without)*	AD-10-5620	DM-TF-10-Lp
		0.2			
		0.4			
		0.8			
	0.5	0.5	(without)*	AD-10-5625	DM-TF-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.

TITANUS FUSION® complete set



The complete set consists of the basic device (1), one to two detector modules (2) and the front film sheet (3).

TITANUS <i>FUSION</i> ® complete set						NEW
Article number	Type	Detector modules used	Operating temperature range [°C]	Number of alarm levels per detector module	Current draw at stand-by (alarm) @ 24 V DC [mA]	
AD-05-2251	TF-10L	1 × DM-TF-10-L*	–30 to +60	1 (main alarm)	215 (240)	
AD-05-2252	TF-50L	1 × DM-TF-50-L**			250 (290)	
AD-05-2255	TF-10L-10L	2 × DM-TF-10-L*				
AD-05-2256	TF-10L-50L	1 × DM-TF-10-L*				
		1 × DM-TF-50-L**				
AD-05-2257	TF-50L-50L	2 × DM-TF-50-L**				
Noise level	45 dB(A)					
Bus integration	Conventional line					
Max. pipe length	160 m					
Max. sampling points	20					
Network	—					

* Main alarm from 0.1% obs/m ** Main alarm from 0.5% obs/m

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



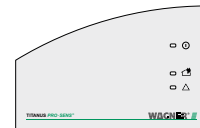
TITANUS PRO-SENS®



Basic device
Page 26



1–2 detector modules
Page 27



Front film sheet
Page 26

Accessories



Extension modules
Page 58 ff.



Additional indicators
Page 61 ff.



Installation
Page 76 ff.



Commissioning tools and maintenance
Page 80 ff.

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 54-20
- Depending on variant, with four visual status indicators at the housing front
- Depending on variant, with four dry contacts or integrated esserbus® coupler 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 m² each (max. 1,600 m² 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.

D	VdS	G 202064
AT	PBST	FT 14/648/02/02
EU	CPD	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)
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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

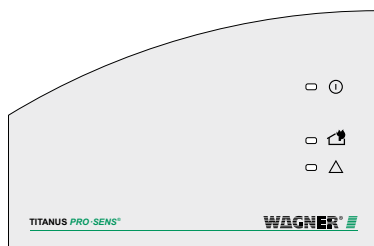
Basic devices							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Current draw at stand-by (alarm) @ 24 V DC when using	
						1 detector module [mA]	2 detector modules [mA]
Standard	1 (main alarm)	45	−20 to +60	AD-05-0457	TP-1/a	200 (210)	220 (240)
SILENT		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)

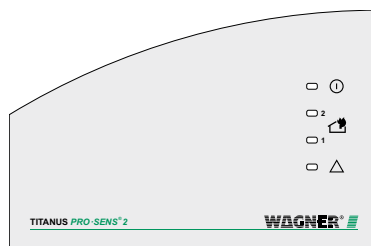
Basic devices with integrated esserbus® coupler							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Number of detector modules to be used	Current draw at stand-by (alarm) [mA]
Standard	1 (main alarm)	45	−10 to +50	AD-05-0784	TP-1-ZE	1	215 (240)
				AD-05-0786	TP-2-ZE	2	250 (290)
SILENT		23*	0 to +40	AD-05-0785	TP-1-SL-ZE	1	155 (180)
				AD-05-0787	TP-2-SL-ZE	2	190 (230)

* 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.

TITANUS PRO-SENS® complete set



The complete set consists of the basic device (1), one to two detector modules (2) and the front film sheet (3).

TITANUS PRO-SENS® complete set						NEW
Article number	Type	Detector modules used	Operating temperature range [°C]	Number of alarm levels per detector module	Current draw at stand-by (alarm) @ 24 V DC [mA]	
AD-05-0651	TP-10L	1 × DM-TP-10-L *	−20 to +60	1 (main alarm)	215 (240)	
AD-05-0652	TP-50L	1 × DM-TP-50-L **			250 (290)	
AD-05-0655	TP-10L-10L	2 × DM-TP-10-L *				
AD-05-0656	TP-10L-50L	1 × DM-TP-10-L *				
		1 × DM-TP-50-L **				
AD-05-0657	TP-50L-50L	2 × DM-TP-50-L **				
Noise level	45 dB(A)					
Bus integration	Conventional line					
Max. pipe length	300 m					
Max. sampling points	63					
Network	—					

* Main alarm from 0.1% obs/m ** Main alarm from 0.5% obs/m

TITANUS PRO-SENS® complete set with esserbus® coupler						NEW
Article number	Type	Detector modules used	Operating temperature range [°C]	Number of alarm levels per detector module	Current draw at stand-by (alarm) @ 24 V DC [mA]	
AD-05-2271	TP-10L-ZE	1 × DM-TP-10-L *	−10 to +50	1 (main alarm)	215 (240)	
AD-05-2272	TP-50L-ZE	1 × DM-TP-50-L **			250 (290)	
AD-05-2275	TP-10L-10L-ZE	2 × DM-TP-10-L *				
AD-05-2276	TP-10L-50L-ZE	1 × DM-TP-10-L *				
		1 × DM-TP-50-L **				
AD-05-2277	TP-50L-50L-ZE	2 × DM-TP-50-L **				
Noise level	45 dB(A)					
Bus integration	Integrated esserbus® coupler					
Max. pipe length	300 m					
Max. sampling points	63					
Network	—					

* Main alarm from 0.1% obs/m ** Main alarm from 0.5% obs/m

TITANUS PRO-SENS®/net

TITANUS PRO-SENS®/net is an optionally network-capable version of TITANUS PRO-SENS®. It features the following performance characteristics and extension options:

- The optional network capability via Ethernet enables the integration of the device into existing or new hazard management systems.
- 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®/net 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®/net®



Basic device
Page 32



1–2 detector modules
Page 34

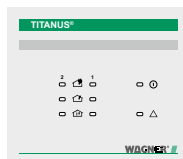


Front film sheet
Page 33

Accessories



Extension modules
Page 54 ff.



Additional indicators
Page 62 ff.



Installation
Page 76 ff.



Commissioning tools
and maintenance
Page 80 ff.

Performance characteristics:

- Device prepared for installing up to two type DM-TT-xx-L detector modules, compliant with Classes A, B and C in accordance with EN 54-20
- Depending on variant, with four to eight visual status indicators at the housing front
- Extension module available for monitored shutdown of external equipment with optional display at the housing front
- Depending on variant, with four to eight dry contacts or integrated esserbus® coupler for forwarding the alarm and fault reports to fire alarm control panels
- Free slots for easily extending the basic configuration
- Input for sensitivity switching prepared for accommodating an Ethernet network module for integration into hazard management systems
- Connection option for remote display
- 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®/net 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 m² each and for equipment monitoring. The detectors feature up to three alarm levels 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.

D	VdS	G 202064
AT	PBST	FT 14/648/02/02
EU	CPD	0786-CPD-20685

Data sheet excerpt:

Operating voltage	14 to 30 VDC
Rated voltage	24 VDC
Start-up current limitation to	max. 460 mA*
Number of relays	4 to 8, depending on number of alarms (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 (max. 1,600 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)
i	Network module type NU-5 (09-20-6440) required for network integration

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	General	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	(2 × 32)**	(2 × 12)**	(2 × 4)**		
	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 ** If pre-alarm is evaluated (min. two alarm levels required)

Basic devices						
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]
1 (main alarm)	45	–20 to +60	AD-05-1250	TP-3	210 (210)	240 (240)
	23*	0 to +40	AD-05-1255	TP-3-SL	140 (150)	170 (180)
	45	–40 to +60	AD-05-1260	TP-3-F	210 (210)	240 (240)
2 (pre-alarm and main alarm)	45	–20 to +60	AD-05-0462	TP-4	210 (220)	240 (250)
	23*	0 to +40	AD-05-0459	TP-4-SL	140 (150)	170 (180)
	45	–40 to +60	AD-05-0463	TP-4-F	210 (220)	240 (250)
3 (info alarm, pre-alarm and main alarm)	45	–20 to +60	AD-05-0665	TP-5	210 (220)	240 (250)
	23*	0 to +40	AD-05-0667	TP-5-SL	140 (150)	170 (180)
	45	–40 to +60	AD-05-0669	TP-5-F	210 (220)	240 (250)

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

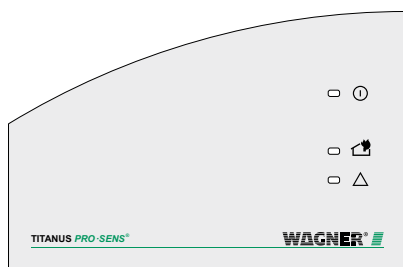
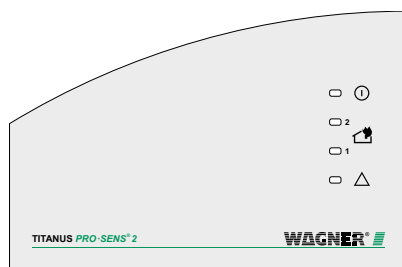
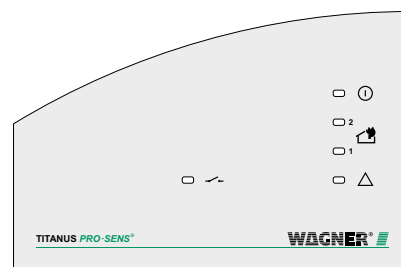
Basic devices with integrated esserbus® coupler							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Number of detector modules to be used	Current draw at stand-by (alarm) [mA]
Standard	2 (main and pre-alarm)	45	−10 to +50	AD-05-0464	TP-4-ZE-1	1	225 (250)
				AD-05-0466	TP-4-ZE-2	2	270 (300)
SILENT		23*	0 to +40	AD-05-0468	TP-4-SL-ZE-1	1	155 (170)
				AD-05-0469	TP-4-SL-ZE-2	2	190 (220)
Standard	3 (info alarm, pre-alarm and main alarm)	45	−10 to +50	AD-05-0671	TP-5-ZE-1	1	225 (250)
				AD-05-0673	TP-5-ZE-2	2	270 (300)
SILENT		23*	0 to +40	AD-05-0675	TP-5-SL-ZE-1	1	155 (170)
				AD-05-0677	TP-5-SL-ZE-2	2	190 (220)

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

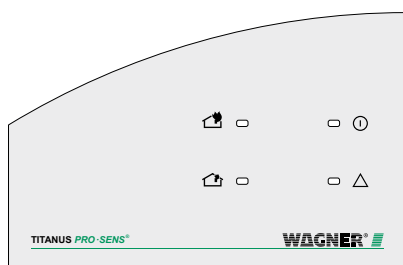
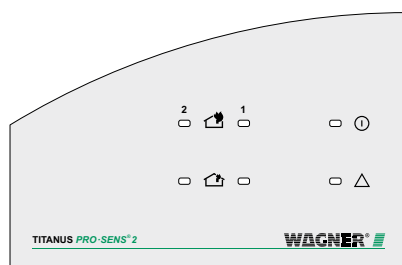
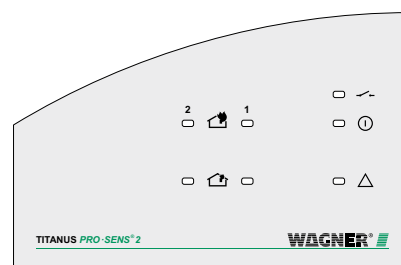
Related front film sheets						
Alarm levels per detector module	When using 1 detector module		When using 2 detector modules			
			Without external shutdown		With external shutdown*	
	Art. no.	Type	Art. no.	Type	Art. no.	Type
1 (main alarm)	AD-10-1035	FW-TP-1	AD-10-1037	FW-TP-2	AD-10-1075	FW-TP-3
2 (pre-alarm and main alarm)	AD-10-1076	FW-TP-4	AD-10-1077	FW-TP-5	AD-10-1078	FW-TP-6
3 (info alarm, pre-alarm and main alarm)	AD-10-1165	FW-TP-7	AD-10-1167	FW-TP-8	AD-10-1169	FW-TP-9

* Shutdown module type SU-2 (09-20-6160) required

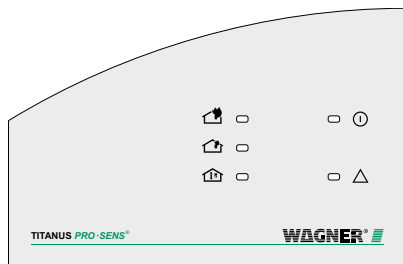
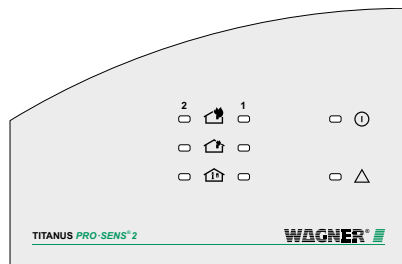
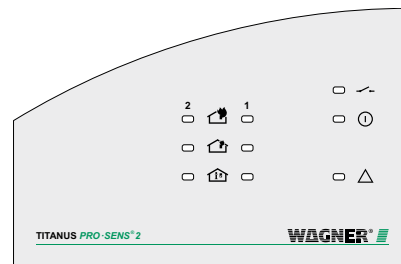
Front film sheets TP-3 (1 alarm level)

FW-TP-1
AD-10-1035FW-TP-2
AD-10-1037FW-TP-3
AD-10-1075

Front film sheets TP-4 (2 alarm levels)

FW-TP-4
AD-10-1076TP-5
AD-10-1077TP-6
AD-10-1078

Front film sheets TP-5 (3 alarm levels)

FW-TP-7
AD-10-1165TP-8
AD-10-1167TP-9
AD-10-1169



TITANUS PRO-SENS®/net 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

Only for use in TITANUS PRO-SENS®/net and TITANUS TOP-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®/net 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-10-5230	DM-TT-01-L	AD-10-5315	DM-TT-01-L-F
		0.030					
		0.060					
		0.120					
	0.1	0.1	From +/- 10% deviation	AD-10-5210	DM-TT-10-L	AD-10-5310	DM-TT-10-L-F
		0.2					
		0.4					
		0.8					
	0.5	0.5	From +/- 10% deviation	AD-10-5250	DM-TT-50-L	AD-10-5320	DM-TT-50-L-F
		1.0					
Without air flow sensor	0.1	0.1	(without)*	AD-10-5265	DM-TT-10-Lp	–	–
		0.2					
		0.4					
		0.8					
	0.5	0.5	(without)*	AD-10-5275	DM-TT-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.

TITANUS TOP-SENS®

The fully equipped TITANUS TOP-SENS® is a general use aspirating smoke detector with a wide range of performance characteristics and extension options:

- Three alarm thresholds allow the establishment of a well thought-out alarm organization.
- The 10-segment bargraph display keeps the user permanently informed of the current smoke load in the area of coverage.
- 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 .
- The optional network capability via Ethernet enables the integration of the device into existing or new hazard management systems.

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 TOP-SENS® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



Device components



TITANUS TOP-SENS®



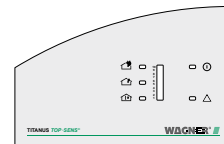
Basic device

Page 38



1–2 detector modules

Page 39



Front film sheet

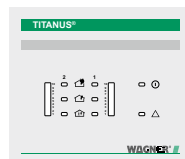
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Accessories



Extension modules

Page 54 ff.



Additional indicators

Page 62 ff.



Installation

Page 76 ff.



Commissioning tools
and maintenance

Page 80 ff.

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 54-20
- Depending on equipment, with four to eight visual status indicators and smoke bargraph display per detector module at the housing front
- Extension module available for monitored shutdown of external equipment with optional display at the housing front
- Depending on variant, with eight dry contacts or integrated esserbus® coupler for forwarding the alarm and fault reports to fire alarm control panels
- Free slots for easily extending the basic configuration
- Input for sensitivity control prepared for accommodating an Ethernet network module for integration into hazard management systems
- Connection option for remote display
- 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 TOP-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 m² each and for equipment monitoring. The detectors feature three alarm levels 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.

D	VdS	G 202064
AT	PBST	FT 14/648/02/02
EU	CPD	0786-CPD-20685

Data sheet excerpt:

Operating voltage	14 to 30 VDC
Rated voltage	24 VDC
Start-up current limitation to	max. 460 mA*
Number of relays	8 (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 (max. 1,600 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)
i	Network module type NU-5 (09-20-6440) required for network integration

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	General	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	(2 × 32)**	(2 × 12)**	(2 × 4)**		
	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 ** If pre-alarm is evaluated

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	3 (info alarm, pre-alarm and main alarm)	45	–20 to +60	AD-05-1220	TT-1/a	210 (220)	240 (250)
SILENT		23*	0 to +40	AD-05-1240	TT-1-SL	140 (150)	170 (180)
Cold storage		45	–40 to +60	AD-05-1350	TT-1-F/a	210 (220)	240 (250)

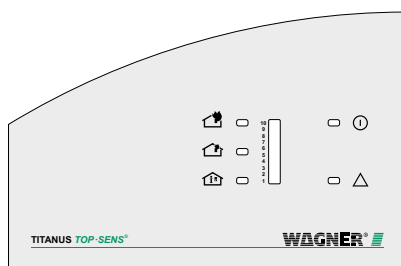
* When using the type SD-1/a sound absorber (art. no.: AD-10-1980)

Basic devices with integrated esserbus® coupler							
Variant	Alarm levels per detector module	Sound pressure level from [dB(A)]	Operating temperature range [°C]	Article number	Type	Number of detector modules to be used	Current draw at stand-by (alarm)[mA]
Standard	3 (info alarm, pre-alarm and main alarm)	45	−10 to +50	AD-05-1370	TT-1-ZE	1	215 (260)
				AD-05-1375	TT-2-ZE	2	260 (340)
SILENT		23*	0 to +40	AD-05-1371	TT-1-SL-ZE	1	165 (210)
				AD-05-1376	TT-2-SL-ZE	2	220 (270)

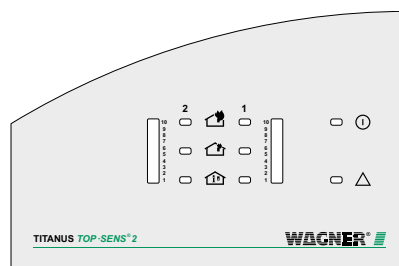
* When using the type SD-1/a sound absorber (art. no.: AD-10-1980)

Related front film sheets						
Alarm levels per detector module	When using 1 detector module		When using 2 detector modules			
			Without external shutdown		With external shutdown*	
	Art. no.	Type	Art. no.	Type	Art. no.	Type
3 (info alarm, pre-alarm and main alarm)	AD-10-1205	FW-TT-1	AD-10-1210	FW-TT-2	AD-10-1225	FW-TT-3

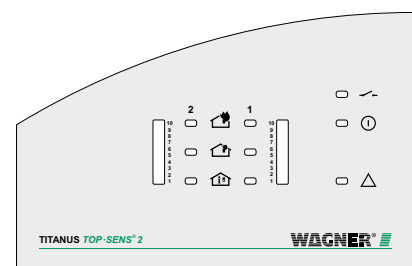
* Shutdown module type SU-2 (09-20-6160) required



FW-TT-1
AD-10-1205



FW-TT-2
AD-10-1210



FW-TT-3
AD-10-1225



TITANUS TOP-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 TOP-SENS® and TITANUS PRO-SENS®/net

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 TOP-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-10-5230	DM-TT-01-L	AD-10-5315	DM-TT-01-L-F
		0.030					
		0.060					
		0.120					
	0.1	0.1	From +/- 10% deviation	AD-10-5210	DM-TT-10-L	AD-10-5310	DM-TT-10-L-F
		0.2					
		0.4					
		0.8					
	0.5	0.5	From +/- 10% deviation	AD-10-5250	DM-TT-50-L	AD-10-5320	DM-TT-50-L-F
		1.0					
Without air flow sensor	0.1	0.1	(without)*	AD-10-5265	DM-TP-10-Lp	–	–
		0.2					
		0.4					
		0.8					
	0.5	0.5	(without)*	AD-10-5275	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.

TITANUS *SUPER-SENS*®

TITANUS *SUPER-SENS*® is a highly sensitive aspirating smoke detector for use in special applications such as telecommunications and IT areas and for monitoring cleanrooms. It offers a wide range of performance characteristics and extension options:

- Three alarm thresholds enable the establishment of a tiered alarm organization.
- The 10-segment bargraph display keeps the user permanently informed of the current smoke load in the area of coverage.
- The optional network capability via Ethernet enables the integration of the device into existing or new hazard management systems.

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 *SUPER-SENS*® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



Device components



TITANUS *SUPER-SENS*®

Accessories



Extension modules
Page 57 ff.



Additional indicators
Page 61 ff.



Installation
Page 76 ff.



Commissioning tools and maintenance
Page 80 ff.

Performance characteristics:

- Approved in accordance with EN 54-20, Classes A, B and C
- Up to 24 sampling points possible
- Five visual status indicators at the housing front for „operation“, „info alarm“, „pre-alarm“, „main alarm“ and „fault“
- Bargraph display for visual indication of current smoke level
- Eight dry alarm and fault contacts for connection to any kind of fire alarm control panel
- Monitoring of the connected pipe system for breakage and clogging
- Fast commissioning thanks to automated initialization
- Easy extension of the basic configuration
- Prepared for accommodating an Ethernet network module for integration into hazard management systems
- Connection option for remote display
- Connection option for air return via type RA-AD2 pipe adapter
- Diagnostic tool for extensive service information and hints for troubleshooting

TITANUS SUPER-SENS®

Aspirating smoke detectors with integrated detection unit for earliest fire detection in special application areas, compliant with Classes A, B and C according to EN 54-20

D	VdS	G 201035
AT	PBST	FT 14/693/029
EU	CPR	0786-CPD-20781

Data sheet excerpt:

Operating voltage	15 / 17* to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	245 mA
Current draw during alarm (24 V)	320 mA
Start-up current limitation to	450 to 550 mA
Max. contact load	30 W
Operating temperature range	–20 °C to +60 °C
Storage temperature range	–45 °C to +65 °C
Max. rel. humidity, operation	95% rh (non-condensing)
Dimensions (W × H × D)	240 × 366 × 132 mm
Net weight	2,800 g
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

* Depending on fan voltage

VPE	1 unit (applies to all articles below)
i	Special galvanic version on request
i	Maximum sensitivity cleanroom version with 0.006% obs/m alarm sensitivity on request

Article no. **AD-05-0800**

Aspirating smoke detector
Type TITANUS SUPER-SENS®

Highly sensitive aspirating smoke detector with tiered alarm activation for active early fire detection for room and equipment monitoring.

Project planning framework for TITANUS SUPER-SENS®

Maximum sensitivity in main alarm [% obs/m]	Max. sampling points			Max. pipe length [m]	
	Class C	Class B	Class A	General	I-pipe *
0.025	1 × 24	1 × 24	1 × 24	1 × 200	1 × 100

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

* Air sampling pipe without branching

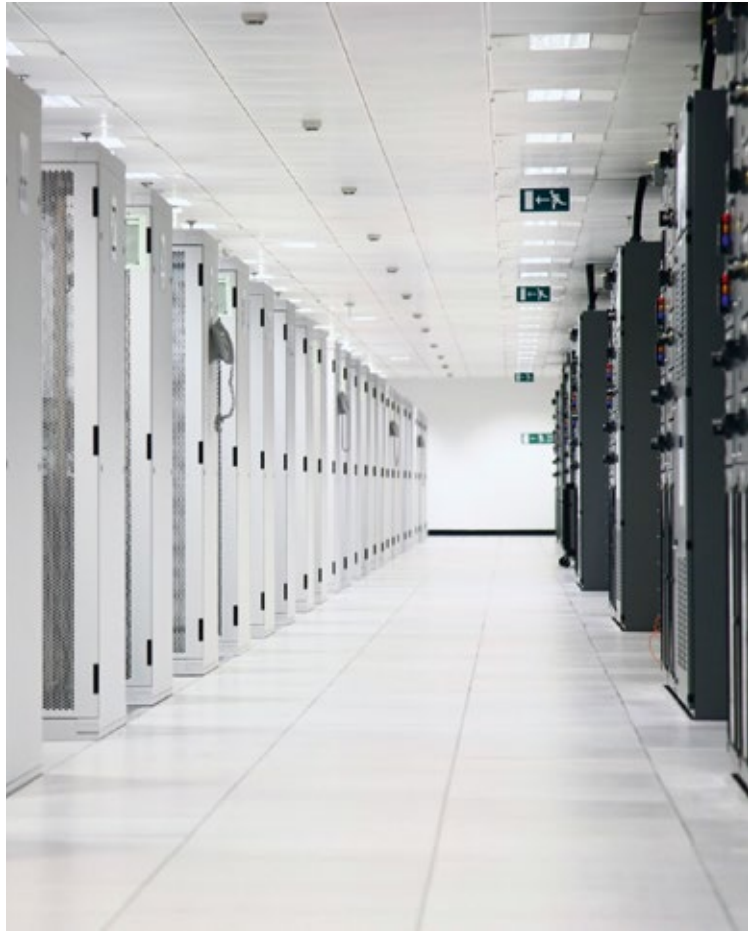
TITANUS RACK-SENS®

The modular TITANUS RACK-SENS® fire protection system is used in 482.6 mm design (19" format) for monitoring electrics and electronics cabinets. The system takes into account the very high safety requirements in the IT sector and offers the advantages of the proven TITANUS® aspirating smoke detectors also for the protection of equipment in 482.6 mm design.

TITANUS RACK-SENS® is optionally available as:

- 482.6 mm module (19") for earliest fire detection, with 44.45 mm height (1 U)
- 482.6 mm module (19") for earliest fire detection with integrated extinguishing agent, with 88.90 mm height (2 U)

On-cabinet versions are available for protecting fully equipped cabinets and for equipment in a design other than the 482.6 mm design. Extension stages enable the system to be adapted individually to the customer requirements.



Device components



TITANUS RACK-SENS® fire detection module in
44.45 mm height (1 U)



TITANUS RACK-SENS® fire detection module with integrated
extinguishing agent cylinder in 88.90 mm height (2 U)

TITANUS RACK-SENS® 1 U (44.45 mm)

The TITANUS RACK-SENS® version with 44.45 mm height allows earliest fire detection with minimum space required. The fire detection system recognizes incipient fires at the earliest possible time, while at the same time, the proven LOGIC-SENS® fire pattern recognition pushes cabinet monitoring to a new dimension in terms of false alarm safety. The TITANUS RACK-SENS® fire detection module is suitable for securing open ventilated, open non-ventilated as well as closed air-conditioned cabinets in 482.6 mm design. The system's VdS-approved fire detection unit even meets the highest detection requirements according to EN 54-20 (Classes A, B and C), thus ensuring earliest possible fire detection. Due to its CPD approval in accordance with the EN 54-20 product standard for aspirating smoke detectors, the 24 V variant complies with all requirements for connection to fire detection and fire alarm systems.



Special accessories for cabinet monitoring



TITANUS RACK-SENS®
Fire detection module



Mechanical
accessories



Electric
accessories

Accessories



Response indicator
Page 60 ff.



Air sampling pipes
Page 88 ff.



Fittings
Page 90 ff.



Commissioning tools
and maintenance
Page 80 ff.



Performance characteristics:

- Prepared for installation in cabinets with 482.6 mm design (19")
- False alarm suppression LOGIC-SENS®
- PIPE-GUARD for detecting breakage and clogging of the connected pipe system
- With two alarm levels for a tiered alarm activation concept
- Fast commissioning thanks to plug & play properties and automated initialization
- Six visual status indicators at the housing front for „operation“, „service/blocked“, „released“, „pre-alarm“, „alarm“ and „fault“
- Dry alarm and fault contacts for connection to any fire alarm control panel
- Prepared for accommodating an Ethernet network module for integration into hazard management systems
- Connection option for a response indicator
- Diagnostic tool for extensive service information
- Automatic shutdown of components configurable for the 19" cabinet via optional shutdown module
- Functionality expandable in many ways (e.g. extinguishing control, door contacts)

TITANUS RACK-SENS® 1 U (44.45 mm)

Preconfigured aspirating smoke detector in 482.6 mm design (19") with 44.45 mm height (1 U) for earliest fire detection in open, closed and highly air-conditioned electronics cabinets.

D **VaS** G 206004 (for fire detection element)

EU **CPR** 0786-CPD-20322

Data sheet excerpt:

Operating voltage	15 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	160 mA (24 V DC)
Current draw during alarm (24 V)	270 mA (24 V DC)
Start-up current limitation to	190 mA (24 V DC)
Max. contact load	1 A / 30 VA / 30 V
Operating temperature range	0 °C to +40 °C
Storage temperature range	–5 °C to +45 °C
Max. rel. humidity, operation	Non-cond. (Class F, DIN 40040)
Dimensions (W × H × D)	482.6 × 43.3 × 300 mm
Housing material	Steel sheet, hot-dip galvanized
Housing color	RAL 7021, Black gray

VPE 1 unit (applies to all articles below)

i Installing accessories may increase the current draw

Project planning framework for detection units

Maximum sensitivity in main alarm [% obs/m]	Max. sampling points			Max. pipe length [m]
	Class C	Class B	Class A	
0.1	1 × 10	1 × 10	1 × 10	1 × 15
0.5	1 × 10	1 × 6	1 × 2	1 × 15

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

Article no. **AD-05-4700**

Performance characteristics:

- Alarm sensitivity freely selectable from 0.05 to 2.0% light obscuration/m
- Approved in accordance with EN 54-20, Classes A, B, C

TITANUS RACK-SENS® 1 U
Type TR1-50

Highly sensitive aspirating smoke detector with 44.45 mm height (1 U) for space-saving installation in cabinets with 482.6 mm design (19").

Article no. **AD-05-4705**

Performance characteristics:

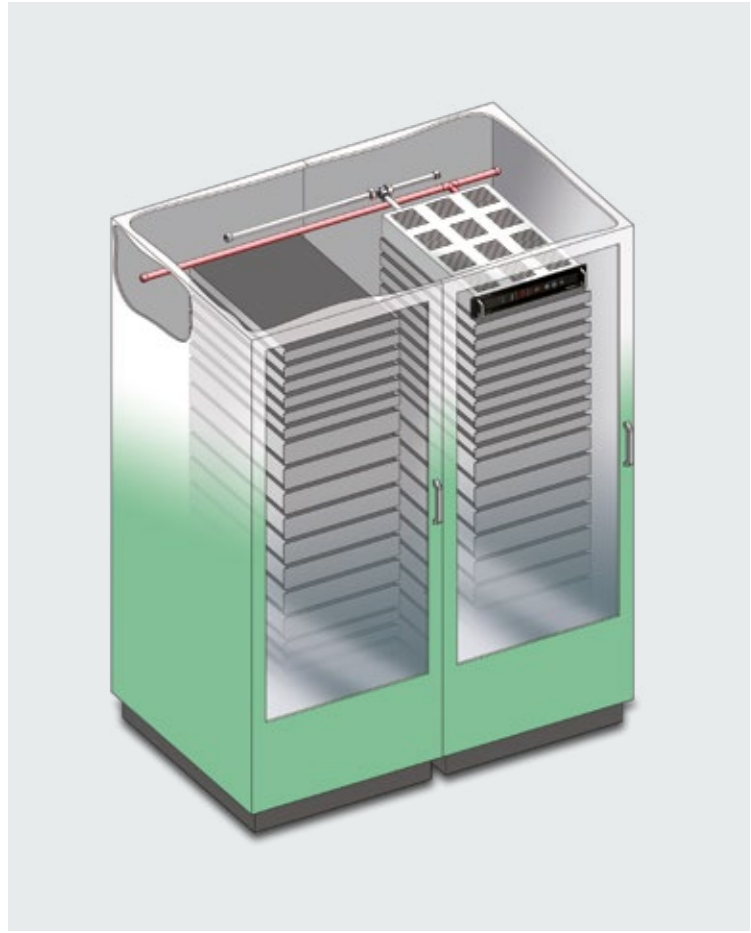
- Alarm sensitivity freely selectable from 0.01 to 2.0% light obscuration/m
- Approved in accordance with EN 54-20, Classes A, B, C

TITANUS RACK-SENS® 1 U
Type TR1-10

Highly sensitive aspirating smoke detector with 44.45 mm height (1 U) for space-saving installation in cabinets with 482.6 mm design (19").

TITANUS RACK-SENS® 2 U (88.90 mm)

The integrated fire detection and extinguishing system TITANUS RACK-SENS® with 88.90 mm height extinguishes fires directly at the source, thus reducing the use of extinguishing agent substantially. The TITANUS RACK-SENS® fire detection and extinguishing module is therefore particularly suited for protecting hermetically sealed cabinets in 482.6 mm design, which otherwise cannot be secured adequately due to the delay in extinguishing gas penetration when using a room extinguishing system. The fire detection unit, for which the 24 V version is VdS-approved, even meets the highest detection requirements according to EN 54-20 (Classes A, B and C), thus ensuring earliest possible fire detection. For low-impact extinguishing while at the same time requiring minimal extinguishing agent supply, the extinguishing agent Novec™ 1230 by 3M™ is offered. Due to its CPD approval in accordance with the EN 54-20 product standard for aspirating smoke detectors, the 24 V variant complies with all requirements for connection to fire detection and fire alarm systems.



Special accessories for cabinet monitoring



TITANUS RACK-SENS®
Fire detection module



Mechanical
accessories



Electric
accessories

Accessories



Response indicator
Page 60 ff.



Air sampling pipes
Page 88 ff.



Fittings
Page 90 ff.



**Commissioning tools
and maintenance**
Page 80 ff.

**Performance characteristics:**

- Prepared for installation in cabinets with 482.6 mm design (19")
- Integrated Novec™ gas extinguishing system for automatic extinguishing in case of fire
- Extinguishing agent cylinders with type approval according to Directive 97/23/EC, ADR and TRG-Rw
- Affected cabinet can automatically be shut down
- False alarm suppression LOGIC-SENS®
- PIPE-GUARD for detecting breakage and clogging of the connected pipe system
- Fast commissioning thanks to plug & play properties and automated initialization
- Dry alarm and fault contacts for connection to any fire alarm control panel
- Prepared for accommodating an Ethernet network module for integration into hazard management systems
- Connection option for a response indicator
- Diagnostic tool for extensive service information

TITANUS RACK-SENS® 2 U (88.90 mm)

Integrated system in 482.6 mm design (19") with 88.90 mm height (2 U) for earliest fire detection and extinguishing in closed, air-conditioned and non-air-conditioned electronics cabinets.

D **VdS** G 206004 (for fire detection element)

EU **CPR** 0786-CPD-20322

Data sheet excerpt:

Operating voltage	15 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	160 mA (24 V DC)
Current draw during alarm (24 V)	270 mA (24 V DC)
Start-up current limitation to	300 mA (24 V DC)
Extinguishing agent	Novec™ 1230 by 3M™
Max. contact load	1 A / 30 VA / 30 V
Operating temperature range	0 °C to +40 °C
Storage temperature range	–5 °C to +45 °C
Max. rel. humidity, operation	Non-cond. (Class F, DIN 40040)
Dimensions (W × H × D)	482.6 × 88.1 × 670 mm
Housing material	Steel sheet, hot-dip galvanized
Housing color	RAL 7021, Black gray

VPE 1 unit (applies to all articles below)

i Installing accessories may increase the current draw

i An adequate number of door contacts must be ordered separately

Project planning framework for detection units

Max. smoke sensitivity in main alarm [% obs/m]	Max. sampling points			Max. pipe length [m]
	Class C	Class B	Class A	General
0.1	1 × 10	1 × 10	1 × 10	1 × 15
0.5	1 × 10	1 × 6	1 × 2	1 × 15

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

Article no. **AD-05-4710****Performance characteristics:**

- Alarm sensitivity freely selectable from 0.05 to 2.0% light obscuration/m
- Fire detection element approved in accordance with EN 54-20, Classes A, B, C
- With two alarm levels for a tiered alarm activation concept
- Six visual status indicators at the housing front for „operation“, „service/blocked“, „released“, „pre-alarm“, „alarm“ and „fault“
- Equipped with one extinguishing agent cylinder Novec™ 1230 by 3M™ for up to 2.2 m³ extinguishing capacity

TITANUS RACK-SENS® 2 U**Type TR2-50-NO**

Highly sensitive aspirating smoke detector with 88.90 mm height (2 U) for space-saving installation in cabinets with 482.6 mm design (19").

Data sheet excerpt:

Extinguishing agent quantity	2 kg
Extinguishing capacity	Up to 2.2 m³
Net weight	Approx. 30 kg

Article no. **AD-05-4715****Performance characteristics:**

- Alarm sensitivity freely selectable from 0.01 to 2.0% light obscuration/m
- Fire detection element approved in accordance with EN 54-20, Classes A, B, C
- With two alarm levels for a tiered alarm activation concept
- Six visual status indicators at the housing front for „operation“, „service/blocked“, „released“, „pre-alarm“, „alarm“ and „fault“
- Equipped with one extinguishing agent cylinder Novec™ 1230 by 3M™ for up to 2.2 m³ extinguishing capacity

TITANUS RACK-SENS® 2 U**Type TR2-10-NO**

Highly sensitive aspirating smoke detector with 88.90 mm height (2 U) for space-saving installation in cabinets with 482.6 mm design (19").

Data sheet excerpt:

Extinguishing agent quantity	2 kg
Extinguishing capacity	Up to 2.2 m³
Net weight	Approx. 30 kg

Performance characteristics:

- Modular system for fire detection with and without extinguishing option for optimal adaptation to the requirements of the application area

TITANUS RACK-SENS® customized

TITANUS RACK-SENS® is a highly modular system engineered for combining functional units to optimally and cost-efficiently meet the requirements of their respective applications.

The available modules for the TITANUS RACK-SENS® are described below. We will be happy to assist you in selecting the appropriate system and provide you with a quote upon request.

Article no. **AD-05-4815****Additional detector module for TITANUS RACK-SENS® 1 U and 2 U, type TR-DM-50**

Second detector for establishing a cross-zoning alarm verification; for integration into TITANUS RACK-SENS® 1 U or 2 U. Alarm sensitivity from 0.05 to 2.0% light obscuration/m.

Article no. **AD-05-4816****Additional detector module for TITANUS RACK-SENS® 1 U and 2 U, type TR-DM-10**

Second detector for establishing a cross-zoning alarm verification or for additional highly sensitive alarm levels to achieve internal alarm activation at a very early point.

Available for TITANUS RACK-SENS® with 44.45 mm (1 U) and 88.90 mm (2 U) height. Alarm sensitivity from 0.01 to 2.0% light obscuration/m.

Article no. **AD-05-4810****Temp. monitoring for TITANUS RACK-SENS® 1 U and 2 U Type TR-TU**

Module for temperature monitoring in equipment. For connecting up to 5 temperature sensors. Measurement range from -9 °C to +99 °C.

Article no. **AD-05-4820****Smoke bargraph display for TITANUS RACK-SENS® 1 U and 2 U, type TR-TU**

10-segment bargraph display for indicating the current smoke density.

Article no. **AD-05-4805****Network module for TITANUS RACK-SENS® 1 U and 2 U Type TR-NU**

Extension module for integration into existing or new Ethernet networks. Transmission rate 10/100 Mbit, supports 10 BaseT, 100 BaseTX, 100 BaseX. Transmission of device-specific data possible via SNMP protocol and SNMP traps.

Article no. **AD-05-4806**

**Network module for TITANUS RACK·SENS® 1 U and 2 U
Type TR-NU-D**

Extension module for integration into existing or new Ethernet networks. Transmission rate 10/100 Mbit, supports 10 BaseT, 100 BaseTX, 100 BaseX. Transmission of device-specific data possible via SNMP protocol and SNMP traps, as well as data recording for visualization of status and history data on an SD card.

Article no. **AD-05-4807**

**Recording module for TITANUS RACK·SENS® 1 U and 2 U
Type TR-NU-DO**

Extension module for data recording for visualization of status and history data on an SD card.

Article no. **AD-05-4800**

**Mains supply for TITANUS RACK·SENS® 1 U and 2 U
Type TR-PS-1**

Mains supply module for input voltage from 110 V to 230 V AC, incl. charge controller for emergency power supply and batteries. For up to four hours of emergency power supply.

Article no. **AD-05-4840**

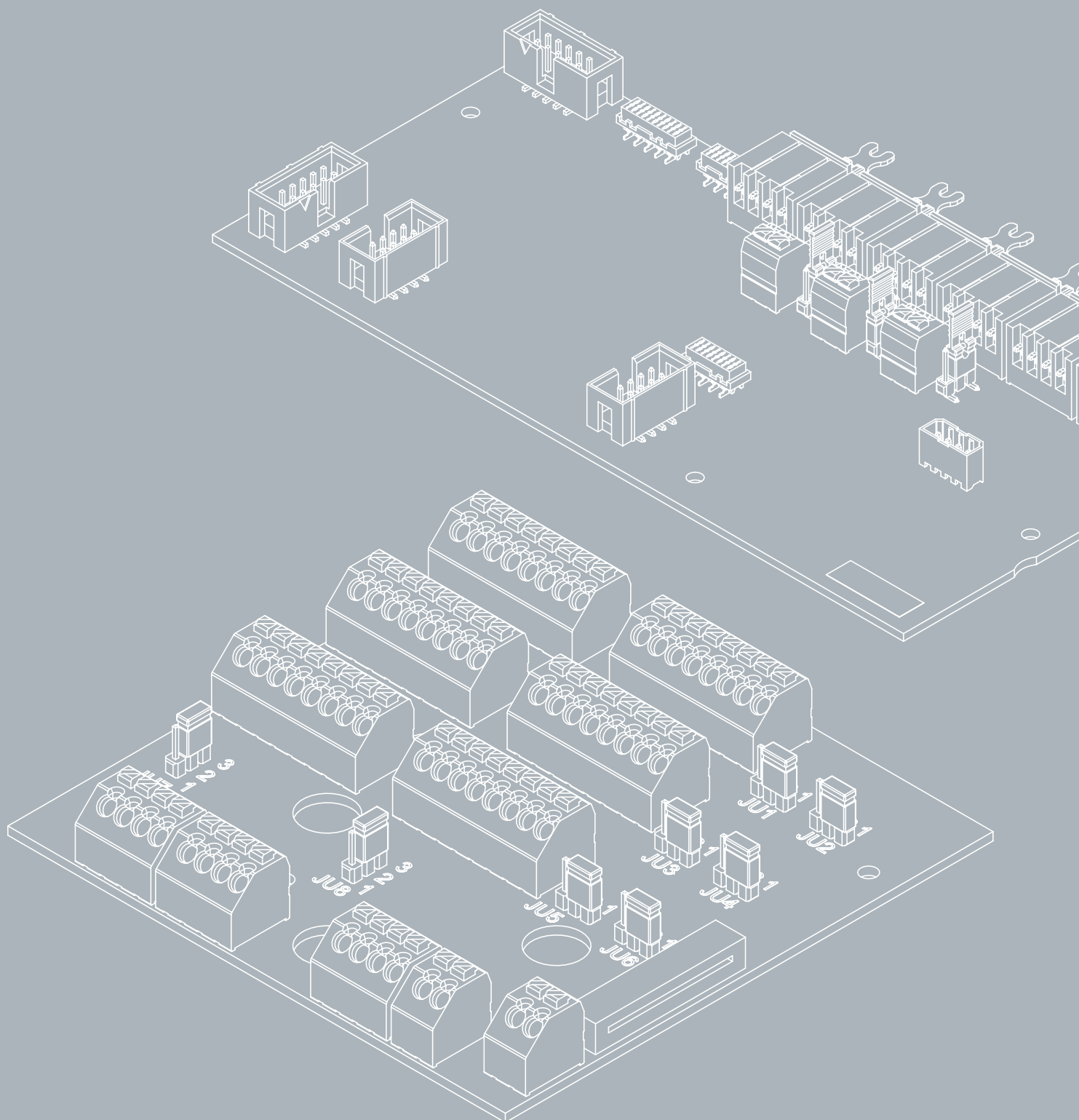
**Novec™ extinguishing agent cylinders for
TITANUS RACK·SENS® 2 U, type TR-EC-NO**

Additional extinguishing agent cylinder for expanding the protected volume. Includes 2 kg Novec™ 1230 3M™ for expanding the protected volume to a maximum of 4.4 m³.

Article no. **AD-05-4835**

**Air return for TITANUS RACK·SENS® 2 U
Type TR-AR2**

Connection port for returning the aspirated air into the monitored equipment. For TITANUS RACK·SENS® with 89.90 mm height (2 U) in on-cabinet housing.



TITANUS® accessories

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Network modules



Network modules

Extension module for integration into Ethernet networks. To be used for TITANUS *MICRO-SENS*®, TITANUS *PRO-SENS*®/net, TITANUS *TOP-SENS*®, TITANUS *RACK-SENS*® and TITANUS *SUPER-SENS*® systems

Data sheet excerpt:

Operating voltage	14 to 30 V DC
Rated voltage	24 V DC
Weight	160 g
VPE	1 pc

Performance characteristics depending on product variant:

- Establishing a hazard management system
- Transmission of device-specific data via SNMP protocol and SNMP traps
- Visualization of device information via integrated web interface
- Data recording for visualization of status and history data on an SD card
- Use in cold storage areas from –40 °C

Network modules overview							
Suitability for aspirating smoke detector system	Operating temperature range [°C]	TCP/IP, SNMP	Web server (integrated web interface)	Data logger (SD card)	Article number	Type	Current draw (24 V DC) [mA]
TITANUS <i>MICRO-SENS</i> ®*	–20 to +60	×	×	×	09-20-6400	NU-2-D	50
		–	–	×	09-20-6405	NU-2-DO	
	–40 to +60	×	–	–	09-20-6140	NU-2	
		×	×	×	09-20-6410	NU-2-D-F	
		–	–	×	09-20-6415	NU-2-DO-F	
TITANUS <i>TOP-SENS</i> ®, TITANUS <i>PRO-SENS</i> ®/net, TITANUS <i>SUPER-SENS</i> ®	–20 to +60	×	×	×	09-20-6445	NU-5-D	40
		–	–	×	09-20-6450	NU-5-DO	
	–40 to +60	×	–	–	09-20-6440	NU-5	
		×	×	×	09-20-6455	NU-5-D-F	
		–	–	×	09-20-6460	NU-5-DO-F	
TITANUS <i>RACK-SENS</i> ®	–20 to +60	×	–	–	09-20-6420	NU-4	40
		×	×	×	09-20-6425	NU-4-D	
		–	–	×	09-20-6430	NU-4-DO	

* Installation in external housing required. Accessory housing type AB-1 (AD-05-5200) with front film sheet type FW-AB-1 (AD-10-1500) recommended.

Modules for shutting down external equipment

Common performance characteristics:

- Visual status indicator for completed shutdown at the housing front
- Shutdown can be released via external release input

Article no. **09-20-6150**



Performance characteristics:

- Intended for installation in aspirating smoke detector TITANUS TOP-SENS®

Shutdown modules

Extension modules and adapter cables for monitored shutdown of external equipment for TITANUS PRO-SENS®/net and TITANUS TOP-SENS®

Shutdown module TITANUS TOP-SENS®

Type SU-1

Extension module for monitored shutdown of external equipment

Data sheet excerpt:

Operating voltage	17 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	6 mA
Current draw during alarm (24 V)	45 mA
Operating temperature range	–40 °C to +60 °C
Weight	67 g

VPE 1 pc

Article no. **09-20-6160**



Performance characteristics:

- Intended for installation in aspirating smoke detector TITANUS PRO-SENS®/net

Shutdown module TITANUS PRO-SENS®/net

Type SU-2

Extension module for monitored shutdown of external equipment

Data sheet excerpt:

Operating voltage	17 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	6 mA
Current draw during alarm (24 V)	45 mA
Operating temperature range	–40 °C to +60 °C
Weight	67 g

VPE 1 pc

Relay modules for TITANUS MICRO-SENS®

Relay modules

Extension modules with dry alarm contacts

Article no. **09-20-6680**



Relay module for TITANUS MICRO-SENS® Type RU-1

Extension module with 5 dry alarm contacts for forwarding the localization of the alarm location by TITANUS MICRO-SENS® with ROOM-IDENT

Data sheet excerpt:

Operating temperature range	–40 °C to +60 °C
-----------------------------	------------------

VPE 1 pc

i For installation in accessory housing type AB-1 (AD-05-5200)

Performance characteristics:

- One relay contact per alarm location

Article no. **09-20-6681**



Relay module for TITANUS MICRO-SENS® Type RU-2

Extension module with 5 dry contacts for connection to TITANUS MICRO-SENS® with pre-alarm

Data sheet excerpt:

Operating temperature range	–40 °C to +60 °C
-----------------------------	------------------

VPE 1 pc

i For installation in accessory housing type AB-1 (AD-05-5200)

Performance characteristics:

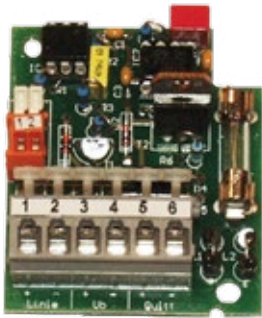
- Two relay contacts each (change-over contacts) for "pre-alarm" and "alarm"
- 1 relay contact (change-over contact) for "collective fault"

Reset boards and buttons for reset and disconnection

Resetting and disconnecting

Circuit board for resetting aspirating smoke detectors via the detector line and buttons for manual disconnection or resetting

Article no. 09-20-5481



Reset board
Type E548/c

Extension circuit board for resetting the alarm and fault reports from the aspirating smoke detector via the detector line

Data sheet excerpt:

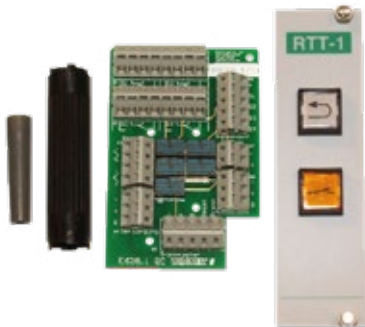
Current draw	5 to 50 mA
Dimensions (L × W)	57 × 45 mm
Operating temperature range	−40 °C to +60 °C

VPE 1 pc

Performance characteristics:

- Circuit board for use in TITANUS® aspirating smoke detectors or in the housing for TITANUS® accessories

Article no. AD-10-4200



Reset and disconnect button
Type RTT-1

Enables the aspirating smoke detectors to be reset or the devices to be disconnected from a higher-level fire alarm control panel

Data sheet excerpt:

Operating voltage	14 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	6 mA
Current draw during alarm (24 V)	45 mA
Max. contact load	30 W
Dimensions (W × H)	35.56 × 133.5 mm
Dimensions (19")	3 U, 7 DU
Operating temperature range	−35 °C to +70 °C

VPE 1 pc

Performance characteristics:

- Circuit board for use in TITANUS® aspirating smoke detectors or in the housing for TITANUS® accessories
- Operation via external command unit in 482.6 mm (19") frame

Accessory circuit board for controlling the fan voltage

Fan control
Accessory circuit board for fan control

Article no. 09-20-6830



Performance characteristics:

- Three fan stages (10 V, 11 V and 12 V)

Fan control for aspirating smoke detectors Type FC-3	
Accessory circuit board for operating aspirating smoke detectors with very high aspiration capacity and short transport times. To be used in "SL" variants of TITANUS <i>FUSION</i> ®, TITANUS <i>PRO-SENS</i> ®, TITANUS <i>PRO-SENS</i> ®/net and TITANUS <i>TOP-SENS</i> ® systems	
Data sheet excerpt:	
Operating temperature range	0 °C to +40 °C
VPE	1 pc

Housing to accommodate accessories

Additional housing

Wall housing to accommodate accessory modules, circuit boards and input modules for aspirating smoke detectors

Article no. **AD-05-5200**



Housing for TITANUS® accessories
Type AB-1

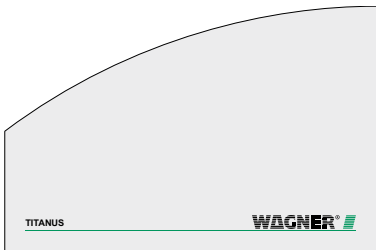
Additional housing for TITANUS® accessories

Data sheet excerpt:

Dimensions (W × H × D)	140 × 200 × 70 mm
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white
VPE	1 pc
i	Front film sheet AD-10-1500 required

- Performance characteristics:**
- Integrated mounting plate for attaching accessories such as input module, network module or reset board

Article no. **AD-10-1500**



Front film sheet for TITANUS® additional housing
Type FW-AB-1

Front film sheet for TITANUS® additional housing type AB-1

Data sheet excerpt:

Weight	3 g
VPE	1 pc

Additional indications for remote information

TITANUS MICRO-SENS®

Remote displays and response indicators for additional visualization of status information and response indicators for identifying the seat of fire via ROOM-IDENT

Article no. **AD-05-2100**



Performance characteristics:

- Eight visual status indicators at the housing front for "operation", "alarm", "fault" and alarm location displays
- Bargraph display for visual indication of current smoke level
- Option for reading out extensive service information and hints for troubleshooting
- Installation at a maximum distance of 1,000 m cabling length possible

TITANUS MICRO-SENS® remote display Type RD-TM

Remote display in wall housing for additional visualization of the status information of a TITANUS MICRO-SENS® at selected points

Data sheet excerpt:

Operating voltage	15 to 30 V DC
Rated voltage	24 V DC
Current draw in stand-by (24 V)	15 mA
Current draw during alarm (24 V)	50 mA
Dimensions (W × H × D)	150 × 200 × 70 mm
Operating temperature range	–40 °C to +60 °C
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

VPE 1 pc

i Requires same front film sheet as for the connected basic device

Article no. **AD-05-2000**



Response indicator Type DJ-TM

Visual addressable alarm location indicator for TITANUS MICRO-SENS®/TITANUS RACK-SENS®

Data sheet excerpt:

Operating voltage	15 to 30 V DC
Current draw in stand-by (24 V)	2 mA
Current draw during alarm (24 V)	8 mA
Dimensions (W × H × D)	85 × 85 × 45 mm
Housing color	RAL 9010, Pure white

VPE 1 pc

Additional indications
for remote information

TITANUS PRO-SENS®

Visual remote display for connection to dry contacts
of automatic fire detectors

Article no. **BM-20-0205**



Performance characteristics:

- Suitable for mounting on door frames

Response indicator
Type FDAI 91

Visual remote display to indicate the alarm status for
TITANUS FUSION® and TITANUS PRO-SENS®

Data sheet excerpt:

Operating voltage	5 to 8 V DC
Rated voltage	6 V DC
Current draw during alarm	35 mA
Dimensions (W × H × D)	62 × 37 × 24 mm
Operating temperature range	–25 °C to +80 °C

VPE 1 pc

Article no. **BM-20-0225**



Performance characteristics:

- For mounting on walls

Response indicator
Type FDAI 92

Visual remote display to indicate the alarm status for
TITANUS FUSION® and TITANUS PRO-SENS®

Data sheet excerpt:

Operating voltage	5 to 8 V DC
Rated voltage	6 V DC
Current draw during alarm	35 mA
Dimensions (W × H × D)	85 × 85 × 28 mm
Operating temperature range	–25 °C to +80 °C

VPE 1 pc

Additional indications in wall housing

Additional indications in wall housing

Displays in wall housing for additional visualization of the status information of TITANUS *PRO-SENS*®/net, *TOP-SENS*® and *SUPER-SENS*® aspirating smoke detectors at a selected point

Data sheet excerpt:

Operating voltage	8 to 30 V DC
Rated voltage	24 V DC
Dimensions (W × H × D)	150 × 150 × 57 mm
Housing material	ABS plastics
Housing color	RAL 7035, Light gray
Performance characteristics	<ol style="list-style-type: none"> 1. Installation at a maximum distance of 1,000 m 2. Display of all status indications of the connected detector and of the bargraph display (if any) at the housing front

		Remote display in wall housing			Related front film sheet	
Remote display for detector type	Number of detector modules	Current draw at stand-by (alarm) [mA]	Article number	Type	Article number	Type
TITANUS <i>PRO-SENS</i> ®/net TP-3	1	10 (12)	AD-05-1305	RD-TP	AD-05-1420	FW-RD-TP
	2				AD-05-1430	FW-RD-TP2
TITANUS <i>PRO-SENS</i> ®/net TP-4	1	10 (12)	AD-05-1300	RD-TT	AD-05-1435	FW-RD-TP-4
	2				AD-05-1440	FW-RD-TP-5
TITANUS <i>PRO-SENS</i> ®/net TP-5	1	10 (12)	AD-05-1300	RD-TT	AD-05-1437	FW-RD-TP-6
	2				AD-05-1442	FW-RD-TP-7
TITANUS <i>TOP-SENS</i> ® TT-1/a	1	10 (65)	AD-05-1300	RD-TT	AD-05-1320	FW-RD-TT
	2				AD-05-1325	FW-RD-TT2
TITANUS <i>SUPER-SENS</i> ®	1	10 (65)	AD-05-0270	PAG3-TITANUS	AD-10-0225	FW3-PAG

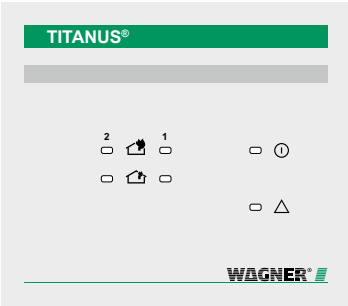
Remote display on the example of

TITANUS *TOP-SENS*®,
Art. no. AD-05-1300



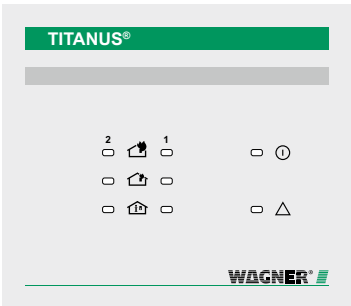
Front film sheet on the example of

TITANUS *PRO-SENS*® TP-4,
2 detector modules, art. no. AD-05-1440



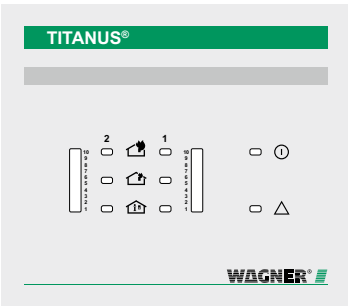
Front film sheet on the example of

TITANUS *PRO-SENS*® TP-5,
Art. no. AD-05-1442



Front film sheet on the example of

TITANUS *TOP-SENS*®,
2 detector modules, art. no. AD-05-1325



Additional indications for 19" racks

Additional indications for 19" racks

Displays in 19" format for additional visualization of the status information of TITANUS *PRO-SENS*®/net, TITANUS *TOP-SENS*® and TITANUS *SUPER-SENS*® aspirating smoke detectors at a selected point

Data sheet excerpt:

Operating voltage	8 to 30 V DC
Rated voltage	24 V DC
Housing material	ABS plastics
Housing color	RAL 7035, Light gray
Performance characteristics	1. Installation at a maximum distance of 1,000 m 2. Display of all status indications of the connected detector and of the bargraph display (if any) at the front

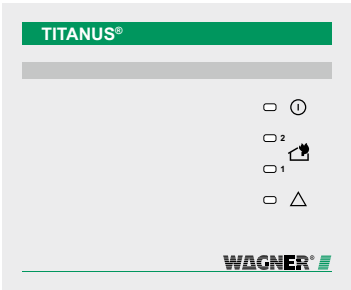
VPE 1 pc

		Remote display for 19" racks				
Remote display for detector type	Number of detector modules	Current draw at stand-by (alarm) [mA]	Dimensions (W × H) [mm]	Dimensions (19")	Article number	Type
TITANUS <i>PRO-SENS</i> ®/net TP-3	1	10 (11)	161 × 133.5	3 U, 28 DU*	AD-05-1400	RDW-TP-19"
	2	10 (12)			AD-05-1410	RDW-TP2-19"
TITANUS <i>PRO-SENS</i> ®/net TP-4	1	10 (12)	161 × 133.5	3 U, 28 DU*	AD-05-1405	RDW-TP-4-19"
	2	10 (14)			AD-05-1415	RDW-TP2-4-19"
TITANUS <i>PRO-SENS</i> ®/net TP-5	1	10 (13)	161 × 133.5	3 U, 28 DU*	AD-05-1406	RDW-TP-5-19"
	2	10 (16)			AD-05-1416	RDW-TP2-5-19"
TITANUS <i>TOP-SENS</i> ® TT-1/a	1	10 (35)	161 × 133.5	3 U, 28 DU*	AD-05-1310	RDW-TT-19"
	2	10 (65)			AD-05-1315	RDW-TT2-19"
TITANUS <i>SUPER-SENS</i> ®	1	10 (65)	121 × 133.5	3 U, 21 DU*	AD-05-0280	PAW3-TITANUS
With diagnostic interface for DIAG+						

* U = rack units, DU = depth units

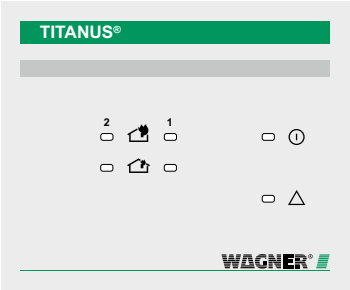
Remote display on the example of

TITANUS PRO-SENS®/net TP-3,
1 detector module, art. no. AD-05-1410



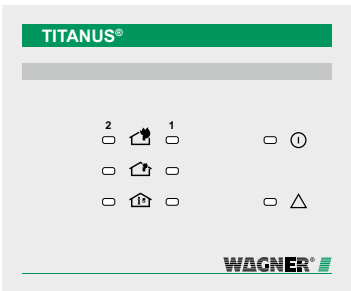
Remote display on the example of

TITANUS PRO-SENS®/net TP-4,
2 detector modules, art. no. AD-05-1415



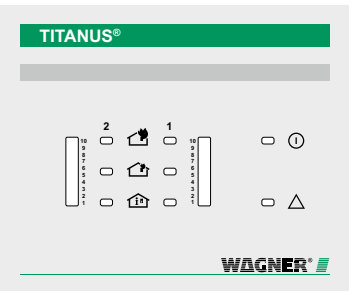
Remote display on the example of

TITANUS PRO-SENS®/net TP-5,
2 detector modules, art. no. AD-05-1416



Remote display on the example of

TITANUS TOP-SENS®,
2 detector modules, art. no. AD-05-1315



Blank cover plates 482.6 mm (19")**Blank cover plates 482.6 mm (19")****Blank cover plate for closing an unused slot in a 19" frame**Article no. **AD-10-0300****Blank cover plate for remote display
Type BP-RD-1****For closing unused slots in cabinets with 482.6 mm design (19"), besides remote displays****Data sheet excerpt:**

Dimensions (W × H)	106.68 × 133.35 mm
Dimensions (19")	3 U, 21 DU
Housing color	RAL 9018, Papyrus white

VPE 1 pc

Article no. **AD-10-0305****Blank cover plate for remote display
Type BP-RD-2****For closing unused slots in cabinets with 482.6 mm design (19"), besides remote displays****Data sheet excerpt:**

Dimensions (W × H)	142.24 × 133.35 mm
Dimensions (19")	3 U, 28 DU
Housing color	RAL 9018, Papyrus white

VPE 1 pc

Article no. **08-90-0110****Subrack 482.6 mm (19")
Type BGT-160Z-3****Subrack to accommodate 19" remote displays in 482.6 mm design (19")****Data sheet excerpt:**

Dimensions (W × H)	483 × 133.5 mm
Dimensions (19")	3 U, 84 DU

VPE 1 pc

Accessories for equipment monitoring

TITANUS RACK-SENS® special accessories

Accessories for monitoring 19" cabinets and electronic equipment

Article no. **AD-05-5050**



Depth-variable sliding rail Type SB-1

Depth-variable sliding rail for use in cabinets with 482.6 mm design (19"), manufacturer Rittal; max. load 80 kg

Data sheet excerpt:

Dimensions (W × H × D)	85 × 85 × 45 mm
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Weight	1.8 kg
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VPE	2 pcs
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Performance characteristics:

- Length adjustable from 590 to 930 mm

Article no. **AD-05-5140**



Cable management box Type SRB-TR1

Cable management box for fitting to the housing rear of TITANUS RACK-SENS® 1 U

Data sheet excerpt:

Dimensions (W × H × D)	155 × 38 × 84 mm
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Material	Galvanized steel sheet
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VPE	1 pc
-----	------

Performance characteristics:

- For covering the cabling
- For strain relief using cable ties for the connection cables of connectors X1 to X5

Article no. **BM-35-6615**



- Performance characteristics:**
- Dry contact
 - Exchangeable working and terminating resistor

**Manual release for extinguishing systems (yellow)
Type HME/1021/11/17/28**

Manual release for extinguishing systems with replaceable label plate for use in conventional line

VdS G 218046

Data sheet excerpt:

Dimensions (W × H × D)	126 x 126 x 35 mm
Net weight	420 g
Housing material	Aluminum
Operating temperature range	−20 °C to +60 °C

VPE 1 pc

i Matching key: SCHL-HFM/HM, BM-35-6728

Article no. **AD-05-5025**



**TITANUS RACK-SENS® door contact
Type DS-TR**

Door contact to monitor a cabinet door for equipment protection

Data sheet excerpt:

Weight	0.2 kg
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Article no. **AD-05-5005**



**Shutdown module for TITANUS RACK-SENS® 1 U /2 U
Type SU-3**

Extension module for monitored shutdown of external equipment

Data sheet excerpt:

Operating temperature range	0 °C to +40 °C
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VPE 1 pc

- Performance characteristics:**
- Additional inputs for door contact switch
 - Output for connecting a shutdown relay
 - Designed for installation on a hat rail

Article no. **AD-05-5000**



Extinguishing / shutdown module for TITANUS RACK-SENS® 1 U, type ESU-1

Extension module for controlling separate extinguishing agent cylinders and monitored shutdown of external equipment

Data sheet excerpt:

Operating temperature range	0 °C to +40 °C
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VPE	1 pc
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i	Already integrated in TITANUS RACK-SENS® 2 U
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Performance characteristics:

- Inputs for manual release line, pressure monitoring and door contact switches
- Outputs for connecting two extinguishing fans and one monitored shutdown relay
- Designed for installation on a hat rail

Article no. **AD-05-5040**



Shutdown relay for TITANUS RACK-SENS® 1 U and 2 U Type SR-1

Extension module for monitored shutdown of external equipment

Data sheet excerpt:

Rated voltage	21 V DC
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Contact load	250 V AC / 8 A
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Temperature range	–40 °C to +70 °C
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Connections	max.1 × 4 mm² / 2 × 2.5 mm²
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Dimensions (W × H × D)	15.5 × 81.9 × 75 mm
------------------------	---------------------

VPE	1 pc
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Performance characteristics:

- Designed for installation on a hat rail

Article no. **AD-05-5035****TITANUS RACK-SENS® temperature sensor
Type TS-1****Sensor for temperature monitoring in equipment; for connection
to temperature monitoring module type TR-TU****Data sheet excerpt:**

Resistance value at 25 °C	10 k Ohm
Operating temperature range	–40 °C to +125 °C

VPE 1 pc

Article no. **AD-05-5020****Performance characteristics:**

- On mounting plate incl. protective cage

**TITANUS RACK-SENS® extinguishing fan
Type EF-1****Extinguishing fan for spreading gaseous extinguishing agent in closed
equipment****Data sheet excerpt:**

Operating voltage	16 to 28 V DC
Rated voltage	24 V DC
Current draw	250 mA
Operating temperature range	0 °C to +40 °C

VPE 1 pc

Article no. **AD-05-5060****TITANUS RACK-SENS® extinguishing pipe
Type EP-1****For extinguishing two directly adjacent equipment elements that
are not isolated from each other****Data sheet excerpt:**

Length	800 mm
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VPE 1 pc

Article no. **AD-05-5055****TITANUS RACK-SENS® extinguishing pipe extension
Type EPE-1**For optimally adjusting the position of the extinguishing pipe
in the protected equipment**Data sheet excerpt:**

Length 300 mm

VPE 1 pc

Article no. **AD-05-5010****TITANUS RACK-SENS® on-cabinet housing 44.45 mm (1 U)
Type HS-TR1**On-cabinet housing for space-saving installation of a TITANUS RACK-SENS®
with 44.45 mm height (1 U) on an equipment element to be monitored**Data sheet excerpt:**

Weight 5.0 kg

Depth 330 mm

Color RAL 7021, powder-coated

VPE 1 pc

Performance characteristics:

- Incl. two installed sliding rails
- Incl. four installed housing feet
- Incl. 12 M5 captive nuts

Article no. **AD-05-5015****TITANUS RACK-SENS® on-cabinet housing 88.90 mm (2 U)
Type HS-TR2**On-cabinet housing for space-saving installation of a TITANUS RACK-SENS®
with 88.90 mm height (2 U) on an equipment element to be monitored.
For monitoring airtight equipment, we recommend the air return option
(see "TITANUS RACK-SENS® customized").**Data sheet excerpt:**

Weight 10.0 kg

Depth 700 mm

Color RAL 7021, powder-coated

VPE 1 pc

Performance characteristics:

- Incl. two installed sliding rails
- Incl. four installed housing feet

Holders for installing aspirating smoke detectors

Device holders

Device holders for installing aspirating smoke detectors on racks

Article no. **AD-10-0250**



Device holder for aspirating smoke detectors Type MT-1

For installing TITANUS® aspirating smoke detectors to racks etc.

Data sheet excerpt:

Dimensions (L × W)	432 × 92 mm
Net weight	1.16 kg

VPE 1 pair

Pipe adapters for TITANUS® aspirating smoke detectors

Pipe adapters

Special adapters for connecting pipe systems, e.g. for establishing a cross-zoning alarm verification for equipment protection, for doubling the number of alarm levels and for connecting to device holders for TITANUS® aspirating smoke detectors

Article no. **01-10-9245**



Pipe adapter Type PA-Y-P

Adapter for connecting a pipe system to a TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*® aspirating smoke detector with two detector modules

Data sheet excerpt:

Operating temperature range	–10 °C to +60 °C
Material	PVC
Color	Dark gray

VPE 1 pc

Performance characteristics:

- For implementing a cross-zoning alarm verification and/or doubling the alarm levels

Article no. **01-10-9255**



Performance characteristics:

- For implementing a cross-zoning alarm verification and/or doubling the alarm levels

**Pipe adapter
Type PA-Y-A**

Adapter for connecting a pipe system to a TITANUS *FUSION*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*® aspirating smoke detector with two detector modules

Data sheet excerpt:

Operating temperature range	–40 °C to +80 °C
Material	ABS
Color	Light gray

VPE 1 pc

Article no. **AD-10-0310**



**Pipe adapter for TITANUS *SUPER-SENS*®
Type RA-AD2**

For connecting an air return to the aspirating smoke detector TITANUS *SUPER-SENS*®

Data sheet excerpt:

Operating temperature range	–40 °C to +80 °C
Material	PE
Color	White

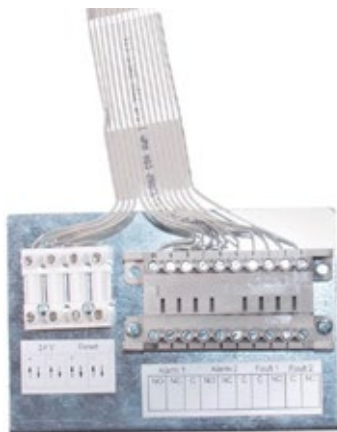
VPE 1 pc

Adapter for connection lines

Connection kit

Adapter for connecting 1.5 to 2.5 mm² lines to TITANUS *FUSION*® and TITANUS *PRO-SENS*®

Article no. **AD-05-0485**



Connection kit for TITANUS *FUSION*® and TITANUS *PRO-SENS*®, type KT-TP-1

Adapter for connecting TITANUS *FUSION*® and TITANUS *PRO-SENS*® using connection lines with a cross section of 1.5 to 2.5 mm²

Data sheet excerpt:

Weight	377 g
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VPE	1 pc
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Performance characteristics:

- Screw terminals for power supply, reset input and for alarm and fault contacts
- Incl. connecting cable to mainboard of TITANUS *FUSION*® and TITANUS *PRO-SENS*®

Accessories for noise reduction

Sound absorber

Sound absorber for noise reduction of aspirating smoke detectors in noise-sensitive applications

Article no. **AD-10-1980**



Sound absorber for aspirating smoke detectors Type SD-1/a

Sound absorber for connection to the pipe outlet of a TITANUS® aspirating smoke detector; reduces the operating noise of aspirating smoke detectors by up to 10 dB(A)

Data sheet excerpt:

Weight	454 g
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Housing material	ABS
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Housing color	RAL 9018, Papyrus white
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VPE	1 pc
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**Kits for dust protection of
aspirating smoke detectors****Dust protection kits**

IP protection kits for protecting TITANUS® aspirating smoke detectors from ingress of dust when used under particularly adverse ambient conditions

Article no. **AD-05-0530****Extension kit****Type KT-HS-2**

Kit for implementing protection category IP52 for TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

VPE 1 pc**Performance characteristics:**

- Incl. housing lid with molded seal
- Suitable for type HS-x housings
- Incl. foam rubber seal
- Incl. sealing labels
- Excl. front film sheet

Article no. **AD-05-0540****Extension kit****Type KT-HS-3**

Kit for protection from ingress of dust for TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

VPE 1 pc**Performance characteristics:**

- Incl. foam rubber seal
- Suitable for type HS-x housings
- Incl. sealing labels

Accessories for cabling of TITANUS®
aspirating smoke detectors

Cable entries

Entries, glands and fittings for cabling of TITANUS® aspirating
smoke detectors with varying cable cross sections

Article no. **AD-05-0900**



Cable entry set
Type KES-PG11

5 PG11 cable entries for cable cross sections from 8 to 12 mm;
for use with TITANUS *SUPER-SENS*®

VPE 1 pc

Performance characteristics:

- Incl. five ferrite rings

Article no. **AD-05-0910**



Cable entry set
Type KES-PG16

5 PG16 cable entries for cable cross sections from 9 to 18 mm;
for use with TITANUS *SUPER-SENS*®

VPE 1 pc

Performance characteristics:

- Incl. five ferrite rings

Article no. **AD-05-0930**



Cable entries
Type M20-MS

M20 membrane cable entries for cable cross sections from 1 to 13 mm;
for use with TITANUS *MICRO-SENS*®, TITANUS *FUSION*®,
TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

Data sheet excerpt:

Protection class IP66

VPE 100 pcs

Article no. **AD-05-0940****Cable entries**
Type M25-MS

M25 membrane cable entries for cable cross sections from 1 to 18 mm;
for use with TITANUS *MICRO-SENS*®, TITANUS *FUSION*®,
TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

Data sheet excerpt:

Protection class

IP66

 100 pcs
Article no. **AD-05-0950****Fittings**
Type M20

M20 cable entries for cable cross sections from 8 to 13.5 mm;
for use with TITANUS *MICRO-SENS*®, TITANUS *FUSION*®,
TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

 100 pcs
Article no. **AD-05-0955****Fittings**
Type M25

M25 cable entries for cable cross sections from 9 to 18.5 mm;
for use with TITANUS *MICRO-SENS*®, TITANUS *FUSION*®,
TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

 100 pcs
Article no. **AD-05-0960****Cable gland**
Type Snaptec M20

M20 screw-in cable gland with strain relief for cable diameters from
7 to 12 mm; for use with TITANUS *MICRO-SENS*®, TITANUS *FUSION*®,
TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*®

Data sheet excerpt:

Protection class

IP54

 50 pcs

Article no. **AD-05-0970**

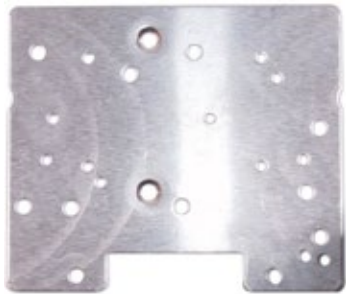


Cable gland Type Snaptec M25	
M25 screw-in cable gland with strain relief for cable diameters from 10 to 17 mm; for use with TITANUS <i>MICRO-SENS</i> ®, TITANUS <i>FUSION</i> ®, TITANUS <i>PRO-SENS</i> ®, TITANUS <i>PRO-SENS</i> ®/net and TITANUS <i>TOP-SENS</i> ®	
Data sheet excerpt:	
Protection class	IP54
VPE 50 pcs	

Kits for installing extension modules

Installation kits
Kits for installing extension modules in TITANUS® aspirating smoke detectors

Article no. **AD-05-0492**



Installation kit for extension modules Type KT-HS-1	
Installation kit for installing extension modules in TITANUS <i>FUSION</i> ®, TITANUS <i>PRO-SENS</i> ®, TITANUS <i>PRO-SENS</i> ®/net and TITANUS <i>TOP-SENS</i> ®	
VPE 1 pc	

Accessories for function checks

Test pipe and test adapter

Test equipment for quick and reliable function checks on the detection units of TITANUS® aspirating smoke detectors

Article no. **01-10-8020**



PVC test adapter
Type PA-PVC

Test equipment for quick function checks on the detection units in aspirating smoke detectors; for installation in air sampling pipe systems with an outer diameter of 25 mm

Data sheet excerpt:

Operating temperature range	–10 °C to +60 °C
Color	Dark gray

VPE 1 pc

Article no. **01-10-8030**



ABS test adapter
Type PA-ABS

Test equipment for quick function checks on the detection units in aspirating smoke detectors; for installation in air sampling pipe systems with an outer diameter of 25 mm

Data sheet excerpt:

Operating temperature range	–40 °C to +80 °C
Color	Light gray

VPE 1 pc

Article no. **AD-10-0550**



Test pipe for aspirating smoke detectors
Type DIAG-Pipe

Test pipe for function checks on the air flow sensors of aspirating smoke detectors

Data sheet excerpt:

Length	630 mm
Weight	140 g

VPE 1 pc

Performance characteristics:

- Prepared for connecting a pressure measuring device

Accessories for the diagnosis of aspirating smoke detectors

Diagnostic tools
Diagnostic tools and accessories for reading out device information and hints for troubleshooting

Article no. **AD-05-0566**



Diagnostic tool Type DIAG 3/b
Diagnostic tool for reading out extensive service information and hints for troubleshooting; for use with TITANUS MICRO-SENS®, TITANUS FUSION®, TITANUS PRO-SENS®, TITANUS PRO-SENS®/net, TITANUS TOP-SENS® and TITANUS RACK-SENS®
<div>VPE</div> 1 pc
<div>i</div> Incl. diagnostic software

Performance characteristics:

- Data transmission between device and PC takes place via the diagnostic interface included in delivery
- Holder for TITANUS MICRO-SENS®, TITANUS FUSION®, TITANUS PRO-SENS®, TITANUS PRO-SENS®/net, TITANUS TOP-SENS® and TITANUS RACK-SENS® included in delivery

Article no. **AD-05-0600**



Diagnostic tool Type DIAG+
Diagnostic tool for TITANUS SUPER-SENS® for reading out extensive service information and hints for troubleshooting
<div>VPE</div> 1 pc
<div>i</div> Incl. diagnostic software

Performance characteristics:

- Data transmission between device and PC takes place via the diagnostic interface included in delivery

Miscellaneous replacement items

Maintenance

Replacement items for performing maintenance on aspirating smoke detectors

Article no. **AD-05-3580**



Air filter for TITANUS *MICRO-SENS*®
Type SP-TM-5

Air filter elements (25 ppi) for type HB-TM device base

VPE 10 pcs

Article no. **AD-05-3585**



Filter element for TITANUS *RACK-SENS*®
Type SP-TR-1

Replacement element for the internal air filter of TITANUS *RACK-SENS*®
in 1 U and 2 U variants

VPE 10 pcs

Article no. **AD-10-0410**

Air filter for TITANUS *SUPER-SENS*® air flow sensor
Type LF-AWM3100V

Protects the air flow sensor of TITANUS *SUPER-SENS*®
 from dirt and dust particles

VPE 1 pc

Article no. **AD-05-3570**

Jumper for TITANUS *MICRO-SENS*® air flow initialization
Type SP-TM-2

Jumper for air flow initialization of the TITANUS *MICRO-SENS*®
 detection units

VPE 10 pcs

Article no. **AD-05-3560**

TITANUS *MICRO-SENS*® cover screws
Type SP-TM-3

Cover screws for TITANUS *MICRO-SENS*®
 detection unit and air filter types: LF-AD(-1/-2)/a

VPE 10 pcs

Article no. **01-45-5297**

TITANUS *SUPER-SENS*® cover screws
Type CN-TSS/a

1 cover screw set for the TITANUS *SUPER-SENS*®
 aspirating smoke detector housing

VPE 4 pcs

Article no. **AD-10-4630**



TITANUS FUSION®, **TITANUS PRO-SENS®**,
TITANUS TOP-SENS® cover plate
Type CP-HS-1

Self-adhesive cover plate for sealing the second air duct in
TITANUS FUSION®, **TITANUS PRO-SENS®**, **TITANUS PRO-SENS®/net**
and **TITANUS TOP-SENS®**

VPE 10 pcs

Article no. **AD-05-0535**

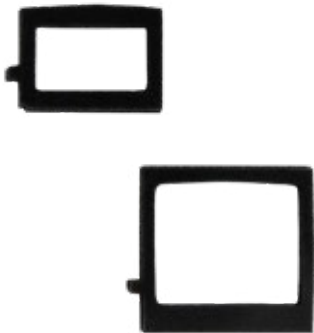


TITANUS® sticker
Type ST-S1

Sticker with **TITANUS®** lettering; suitable for sealing or securing
TITANUS® aspirating smoke detectors

VPE 1 pc

Article no. **AD-10-4620**



Sealing kit for detector module
Type SL-DM

Self-adhesive replacement seals for **TITANUS FUSION®**, **TITANUS PRO-SENS®**,
TITANUS PRO-SENS®/net and **TITANUS TOP-SENS®** detector modules

VPE 10 pcs

Article no. **AD-10-4600****Connection cable**
Type CC-DM

Replacement ribbon cable for connecting TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*® detector modules to the mainboard of the aspirating smoke detector

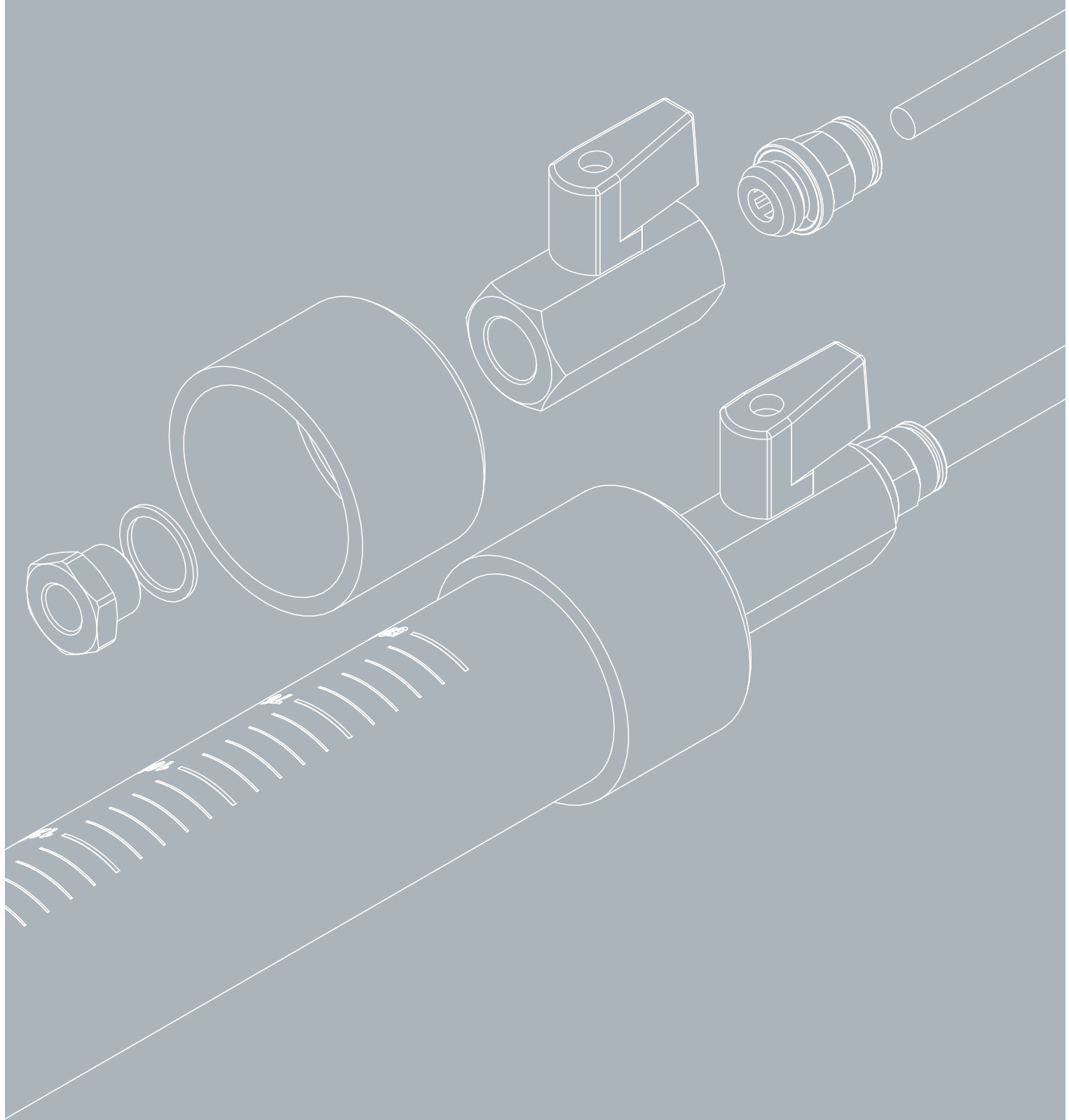
VPE 1 pcArticle no. **AD-05-0575****Adapter cable for diagnostic interface**
Type AC-DIAG 3

For connecting the diagnostic interface type DIAG 3 and DIAG 3/a to TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*® aspirating smoke detectors

VPE 1 pcArticle no. **AD-05-0576****Adapter cable for diagnostic interface**
Type AC-DIAG 3/a

For connecting the diagnostic interface type DIAG 3/b to TITANUS *FUSION*®, TITANUS *PRO-SENS*®, TITANUS *PRO-SENS*®/net and TITANUS *TOP-SENS*® aspirating smoke detectors

VPE 1 pc



Pipe systems and components

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Pipe system overview

For establishing a TITANUS® aspirating smoke detector system, pipe components with various diameters are available in PVC and ABS:

■ Pipe diameter

As standard, the air sampling pipes and fittings are manufactured with 25 mm outer diameter. A larger diameter (32 mm or 40 mm) should be used in compliance with the specifications from the technical manual.

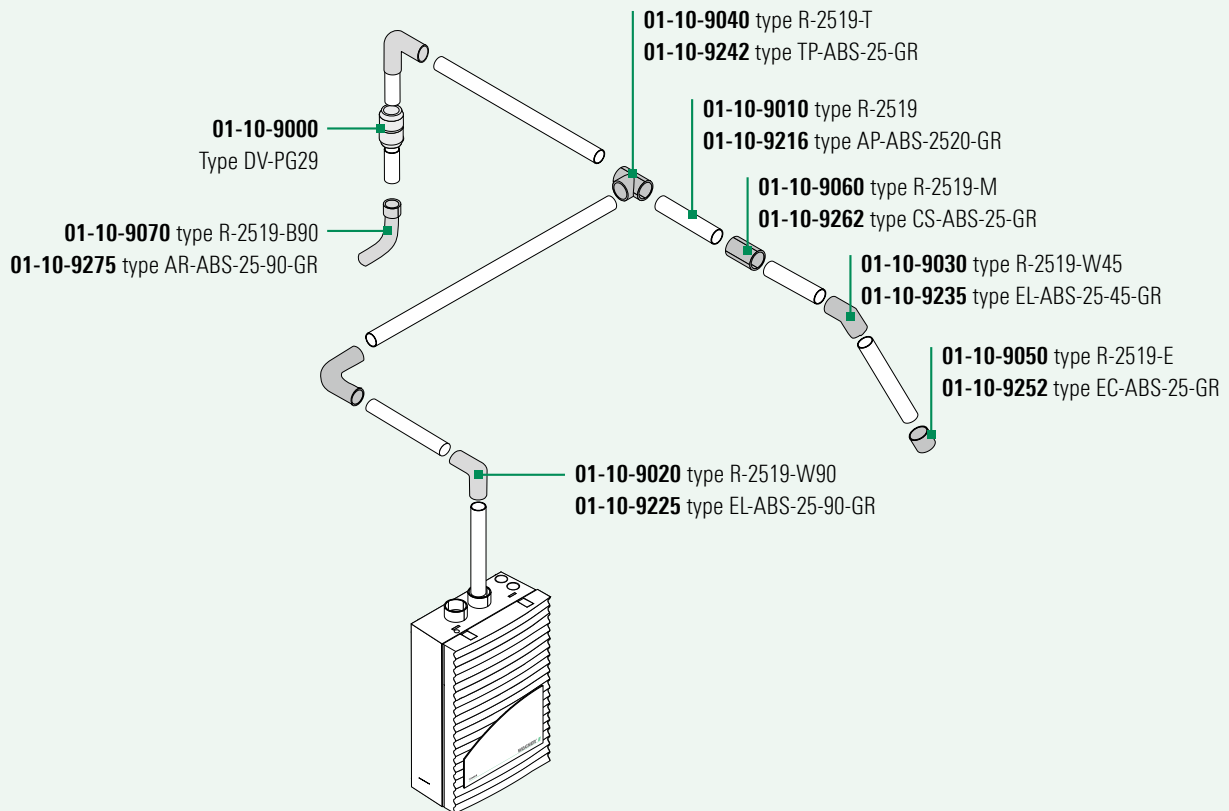
■ Pipe material

In general, the PVC version is sufficient for air sampling pipes. However, in cold storage areas and in areas where halogen-free installation systems are required, ABS piping must be used. The same applies to fittings. The pipe components offered meet the requirements stated in EN 54-20, in accordance with EN 61386-1 Class 1131.

The diagram below shows combination options with the components of a 25 mm pipe system.



Pipe system for smoke aspiration, 25 mm (sample setup)



Air sampling pipe

Air sampling pipe

Air sampling pipe for establishing a pipe system for room and equipment monitoring; meets the requirements according to EN 61386-1 for the stated temperature range

Air sampling pipe								
Outer diameter [mm]	Material	Halogen-free	Packing unit [m/pc]	Article number	Type	Inner diameter [mm]	Color	Operating temperature range [°C]
25	PVC	–	5.0	01-10-9010	R-2519	21.2	Dark gray	–10 to +60
		–	5.0	01-10-6010	RR-2519	21.2	Red	
	ABS	×	5.0	01-10-9216	AP-ABS-2520-GR	21.0	Light gray	–40 to +80
		×	2.5	01-10-9215	AP-ABS-2520-GR	21.0	Light gray	
		×	5.0	01-10-6216	AP-ABS-2520-RD	21.0	Red	
		×	2.5	01-10-6215	AP-ABS-2520-RD	21.0	Red	
32	PVC	–	5.0	01-10-8410	R-3218	28.4	Dark gray	–10 to +60
	ABS	×	5.0	01-10-8310	ABSR-3220	28.0	Light gray	–40 to +80
40	PVC	–	5.0	01-10-8210	R-4019	36.2	Dark gray	–10 to +60
	ABS	×	5.0	01-10-8110	ABSR-4025	35.0	Light gray	–40 to +80

Pipe colors and materials



Fittings for air sampling pipe

Fittings for air sampling pipe

Fittings for establishing a pipe system for room and equipment monitoring; meet the requirements according to EN 61386-1 for the stated temperature range

PVC					
-10 °C to +60 °C					
For pipe outer diameter [mm]	Color	Type	Article number	Type	Packing unit [pcs]
25	Dark gray	90° bend	01-10-9070	R-2519-B90	10
		90° elbow	01-10-9020	R-2519-W90	
		45° elbow	01-10-9030	R-2519-W45	
		T-piece	01-10-9040	R-2519-T	
		Coupler	01-10-9060	R-2519-M	
		End cap	01-10-9050	R-2519-E	
25	Red	90° bend	01-10-6070	RR-2519-B90	10
		90° elbow	01-10-6020	RR-2519-W90	
		45° elbow	01-10-6030	RR-2519-W45	
		T-piece	01-10-6040	RR-2519-T	
		Coupler	01-10-6060	RR-2519-M	
		End cap	01-10-6050	RR-2519-E	
32	Dark gray	90° bend	01-10-8470	R-3218-B90	10
		90° elbow	01-10-8420	R-3218-W90	
		45° elbow	01-10-8430	R-3218-B45	
		T-piece	01-10-8440	R-3218-T	
		Coupler	01-10-8460	R-3218-M	
		End cap	01-10-8450	R-3218-E	
40	Dark gray	90° bend	01-10-8270	R-4019-B90	5
		90° elbow	01-10-8220	R-4019-W90	10
		45° elbow	01-10-8230	R-4019-W45	5
		T-piece	01-10-8240	R-4019-T	10
		Coupler	01-10-8260	R-4019-M	10
		End cap	01-10-8250	R-4019-E	10
32/25	Dark gray	Reducing socket	01-10-8480	R-3225-R	10
32/25	Red	Reducing socket	01-10-6080	RR-3225-R	10
40/25	Dark gray	Reducing socket	01-10-8280	R-4025-R	10

Fittings



90° bend



90° elbow



45° elbow



T-piece



Coupler



End cap



Reducing socket

ABS (halogen-free)					
-40 °C to +80 °C					
For pipe outer diameter [mm]	Color	Type	Article number	Type	Packing unit [pcs]
25	Light gray	90° bend	01-10-9275	AR-ABS-25-90-GR	10
		90° elbow	01-10-9225	EL-ABS-25-90-GR	
		45° elbow	01-10-9235	EL-ABS-25-45-GR	
		T-piece	01-10-9242	TP-ABS-25-GR	
		Coupler	01-10-9262	CS-ABS-25-GR	
		End cap	01-10-9252	EC-ABS-25-GR	
25	Red	90° bend	01-10-6275	AR-ABS-25-90-RD	10
		90° elbow	01-10-6225	EL-ABS-25-90-RD	
		45° elbow	01-10-6235	EL-ABS-25-45-RD	
		T-piece	01-10-6242	TP-ABS-25-RD	
		Coupler	01-10-6262	CS-ABS-25-RD	
		End cap	01-10-6252	EC-ABS-25-RD	
32	Light gray	90° bend	01-10-8370	ABSR-3220-B90	10
		90° elbow	01-10-8320	ABSR-3220-W90	
		45° elbow	01-10-8330	ABSR-3220-W45	
		T-piece	01-10-8340	ABSR-3220-T	
		Coupler	01-10-8360	ABSR-3220-M	
		End cap	01-10-8350	ABSR-3220-E	
40	Light gray	90° bend	01-10-8170	ABSR-2518-B90	5
		90° elbow	01-10-8120	ABSR-4025-W90	10
		45° elbow	01-10-8130	ABSR-4025-W45	5
		T-piece	01-10-8140	ABSR-4025-T	10
		Coupler	01-10-8160	ABSR-4025-M	10
		End cap	01-10-8150	ABSR-4025-E	10
40/32/25	Light gray	Reducing socket	01-10-8380	ABSR-40x32x25-R	10
40/32/25	Red	Reducing socket	01-10-6280	ABSR-40x32x25-R	10

Pipe connection pieces

Article no. **01-10-9000**



**Double screw fitting
Type DV-PG29**

Screw fitting to make a disengageable connection of two air sampling pipes with an outer diameter of 25 mm

Data sheet excerpt:

Temperature range	−40 °C to +100 °C
VPE	1 pc

Article no. **01-10-9207**



**ABS adhesive screw fitting
Type CJ-ABS-25-GR**

Adhesive screw fitting to make a disengageable connection of two ABS air sampling pipes with an outer diameter of 25 mm

Data sheet excerpt:

Color	Gray
Temperature range	−40 °C to +80 °C
VPE	10 pcs

Article no. **01-10-9005**



**PVC adhesive screw fitting
Type KV-R-2519**

Adhesive screw fitting to make a disengageable connection of two PVC air sampling pipes with an outer diameter of 25 mm

Data sheet excerpt:

Color	Gray
Temperature range	−10 °C to +100 °C
VPE	10 pcs

Adhesives and sealants for pipe components

Adhesives and sealants

Accessories for bonding pipe components, removing adhesive residues
and sealing threads

Article no. **01-90-1000**



PVC adhesive Type TI60

Adhesive for PVC plastics

Data sheet excerpt:

Temperature resistance	0 °C to +60 °C
Storage temperature range	+5 °C to +35 °C

VPE 125 g

Article no. **01-90-1070**



ABS adhesive Type TIS10

Adhesive for ABS plastics

Data sheet excerpt:

Temperature resistance	-40 °C to +60 °C
Storage temperature range	+5 °C to +50 °C

VPE 0.5 l

Article no. **01-90-1010**



Plastic cleaner Type TM20N

Cleaning agent for bonding points on ABS and PVC plastics

Data sheet excerpt:

Operating temperature range	0 °C to +35 °C
Storage temperature range	0 °C to +35 °C

VPE 125 ml

Article no. **01-90-1080****Plastic cleaner
Type TM8N****Cleaning agent for bonding points on ABS and PVC plastics****Data sheet excerpt:**

Operating temperature range	0 °C to +35 °C
Storage temperature range	0 °C to +35 °C

VPE 1 l

Article no. **01-90-1668****Thread sealing tape
Type GDB-Rück90****Thread sealing tape for producing gas-tight threaded connections****Data sheet excerpt:**

Material	PTFE
Width	12.7 mm
Thickness	0.09 mm
Length	13.7 m
Thread reversing angle	90°
Temperature range	-240 °C to +260 °C

Article no. **01-90-1720****Sealing tape
Type DB-Teflon****Thread sealing tape for producing gas-tight threaded connections****Data sheet excerpt:**

Material	PTFE
Width	12 mm
Thickness	0.1 mm
Length	12 m
Thread reversing angle	45°
Temperature range	-200 °C to +260 °C

Pipe shears for cutting air sampling pipes

Tools
Shears with easy and safe handling for separating pipe components

Article no. **85-20-2821**



Pipe shears Type D200107
For shortening air sampling pipes made of plastics (PVC and ABS) up to a max. outer diameter of 42 mm
VPE 1 pc

Connecting parts and fastenings for establishing pipe systems

Fastenings

Screw fittings, adapters and connecting parts for the transition between different pipe components as well as accessories for fastening the pipe system in the application area

Article no. **01-35-0440**



Pressure clamp for air sampling pipe Type 18/30

Pressure clamp with multiple snap-in positions for optionally clamping with play or firm seating. Can be used for 25 mm air sampling pipe

Data sheet excerpt:

Material	Polyamide
Temperature range	−40 °C to +140 °C
VPE	25 pcs

Article no. **01-35-0450**



Pressure clamp for air sampling pipe Type 27/43

Pressure clamp with multiple snap-in positions for optionally clamping with play or firm seating. Can be used for 32 mm and 40 mm air sampling pipe

Data sheet excerpt:

Material	Polyamide
Temperature range	−40 °C to +140 °C
VPE	100 pcs

Article no. **01-35-1075**



Clamp for air sampling pipe Type NG 23

For 25 mm air sampling pipe

Data sheet excerpt:

Material	Polypropylene
Temperature range	−30 °C to +90 °C
VPE	100 pcs

Article no. **01-35-1080****Clamp for air sampling pipe
Type NG 29****For 32 mm air sampling pipe****Data sheet excerpt:**

Material	Polypropylene
Temperature range	–30 °C to +90 °C

VPE	100 pcs
-----	---------

Article no. **01-35-1085****Pipe clamp for air sampling pipe
Type PC-BC****For 40 mm air sampling pipe****Data sheet excerpt:**

Material	Polypropylene
Temperature range	–30 °C to +90 °C

VPE	10 pcs
-----	--------

Performance characteristics:

- With clamping bracket

Article no. **01-35-2450****Plastic pipe clamp
Type CLIC-PA****For 25 mm air sampling pipe****Data sheet excerpt:**

Material	Polyamide
Temperature range	–40 °C to +90 °C

VPE	1 pc
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Aspiration-reducing film sheets

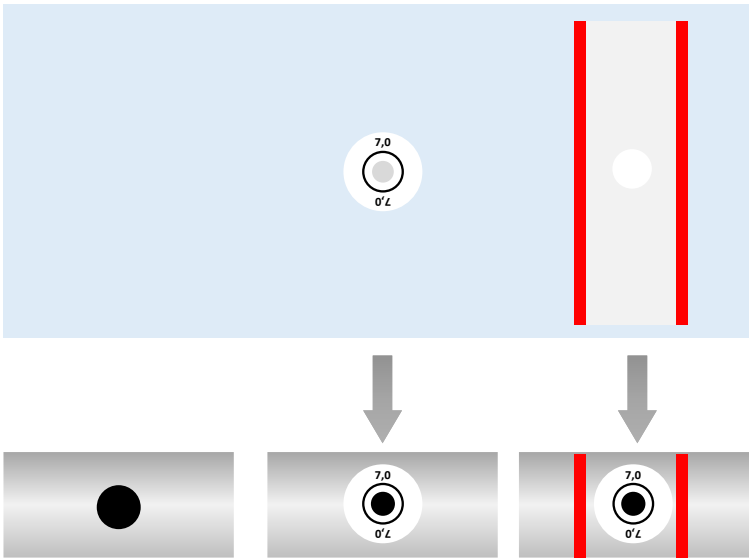
Marking tape	
Marking tape for securing aspiration-reducing film sheets on the pipe system; with red marking for easily locating the sampling points during inspections	
Data sheet excerpt:	
Operating temperature range	−20 °C to +60 °C
VPE 10 pcs / bag	

Article no. **01-10-9330**

Marking tape for aspiration-reducing film sheet
Type AF-BR



Attaching aspiration-reducing film sheets



Aspiration-reducing film sheets

Aspiration reductions for defined sampling points. The film sheets allow easy installation and prevent whistling noises during operation. In addition, they are provided with a size identification mark which can be checked quickly. For uniform detection across all sampling points, the aperture diameters must be selected according to the respective project planning specifications.

Data sheet excerpt:

Operating temperature range -20 °C to +60 °C

VPE 10 pcs

i Marking tape type AF-BR for securing against detaching required

i Not for use in cold storage areas and/or when using an air purge system

**Aspiration-reducing film sheets**

Aperture diameter [mm]	Color: gray		Color: white	
	Article number	Type	Article number	Type
2.0	01-10-9390	AF-2.0	01-10-9790	AFW-2.0
2.5	01-10-9395	AF-2.5	01-10-9795	AFW-2.5
3.0	01-10-9400	AF-3.0	01-10-9800	AFW-3.0
3.2	01-10-9410	AF-3.2	01-10-9810	AFW-3.2
3.4	01-10-9420	AF-3.4	01-10-9820	AFW-3.4
3.6	01-10-9430	AF-3.6	01-10-9830	AFW-3.6
3.8	01-10-9440	AF-3.8	01-10-9840	AFW-3.8
4.0	01-10-9450	AF-4.0	01-10-9850	AFW-4.0
4.2	01-10-9460	AF-4.2	01-10-9860	AFW-4.2
4.4	01-10-9470	AF-4.4	01-10-9870	AFW-4.4
4.6	01-10-9480	AF-4.6	01-10-9880	AFW-4.6
5.0	01-10-9490	AF-5.0	01-10-9890	AFW-5.0
5.2	01-10-9500	AF-5.2	01-10-9900	AFW-5.2
5.6	01-10-9510	AF-5.6	01-10-9910	AFW-5.6
6.0	01-10-9520	AF-6.0	01-10-9920	AFW-6.0
6.8	01-10-9530	AF-6.8	01-10-9930	AFW-6.8
7.0	01-10-9540	AF-7.0	01-10-9940	AFW-7.0

Aspiration reductions

Plastic clip

Plastic clip for fixing type AK-x.y aspiration reductions to the air sampling pipe; suitable for use in cold storage areas and when using an air purge system

Data sheet excerpt:

Operating temperature range	–40 °C to +65 °C
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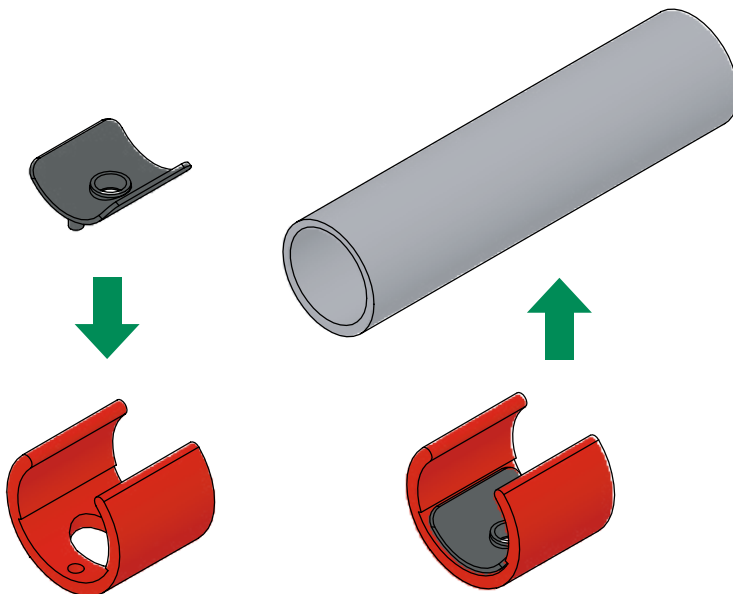
VPE	10 pcs / bag
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Article no. **01-10-9750**

Plastic clip
Type AK-C



Plastic clip for aspiration reduction



Aspiration reductions

Aspiration reductions with defined sampling points for use in cold storage areas and/or when using an air purge system. The reductions allow easy installation and prevent whistling noises during operation. For uniform detection across all sampling points, the aperture diameters must be selected according to the respective project planning specifications

Data sheet excerpt:

Operating temperature range	−40 °C to +65 °C
VPE 10 pcs	
i Plastic clips type AK-C (01-10-9750) required for fixing.	



Aspiration reductions

Aperture diameter [mm]	Article number	Type
2.0	01-10-9580	AK-2.0
2.5	01-10-9590	AK-2.5
3.0	01-10-9600	AK-3.0
3.2	01-10-9610	AK-3.2
3.4	01-10-9620	AK-3.4
3.6	01-10-9630	AK-3.6
3.8	01-10-9640	AK-3.8
4.0	01-10-9650	AK-4.0
4.2	01-10-9660	AK-4.2
4.4	01-10-9670	AK-4.4
4.6	01-10-9680	AK-4.6
5.0	01-10-9690	AK-5.0
5.2	01-10-9700	AK-5.2
5.6	01-10-9710	AK-5.6
6.0	01-10-9720	AK-6.0
6.8	01-10-9730	AK-6.8
7.0	01-10-9740	AK-7.0

**Accessories for monitoring
a climatic duct**

Duct adapter

Accessories for highly sensitive monitoring of a convection air conditioning system with a TITANUS® aspirating smoke detector

Article no. **VE-10-0500**



**Duct adapter
Type E700-KA**

Adapter for installing an air sampling pipe on an air duct

Data sheet excerpt:

Inner diameter	Pipe feed-through 26 mm
Net weight	164 g
VPE	1 pc

Article no. **VE-10-0510**



**Blank cover plate for duct adapter
Type E700-KAB**

Blank cover plate for closing an unused bypass opening for systems for monitoring an air duct

Data sheet excerpt:

Net weight	454 g
VPE	1 pc

Separator for condensing humidity

Condensate separator

Condensate separator for separating and collecting condensed fluids upstream of the aspirating smoke detector

Article no. **AD-10-0647**



Performance characteristics:

- Plastic housing with manual drain valve
- Adhesive joint for integration into a pipe system

**Condensate separator
Type KA-1**

Condensate separator for collecting and draining condensate from the air sampling pipe system; automatic water drain possible for areas with heavy condensation

Data sheet excerpt:

Operating temperature range	0 °C to +60 °C
Dimensions (W × H × D)	68 × 600 × 36 mm
Net weight	620 g
Material	PVC
Color	Light gray

VPE 1 pc

Pipe cleaning

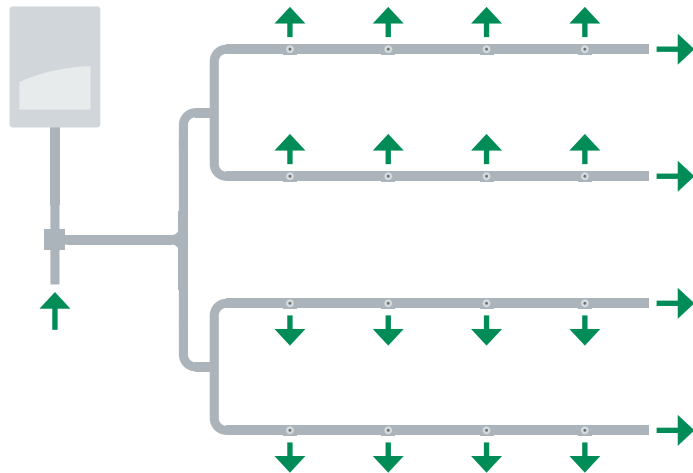
An air purge system is used for cleaning the pipe system and/or sampling points in areas that are difficult to access:

- In very dusty applications, the deposits forming in the pipe system are blown out with overpressure via the non-return valves at the sampling branch ends.
- In cold storage areas, the sampling points are de-iced with short bursts of compressed air. Plastic clips enable icing to be blown off in this case.

Depending on how often a pipe system has to be purged, the use of a manual air purge system or an automatic air purge system is recommended.

Important:

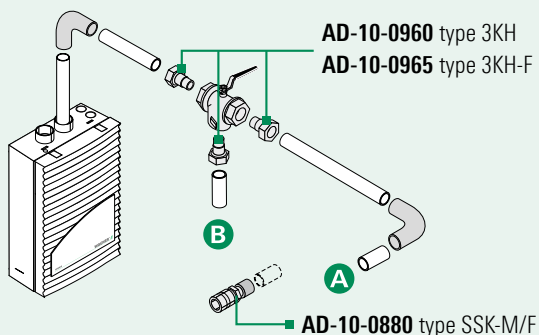
When using an air purge system in a cold storage area, ABS piping must be used in any case.



Manual air purge system

(sample setup; project planning must be performed in accordance with the manual.)

Connections: A – compressed air supply, B – pipe system



Purging of the pipe system by operating a three-way ball valve

Aspiration reductions for air purging:

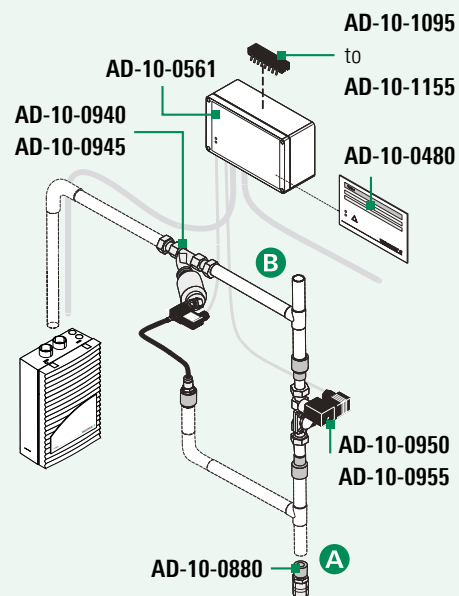
01-10-9750 type AK-C

01-10-9580 to 01-10-9740

Automatic air purge system

(sample setup; project planning must be performed in accordance with the manual.)

Connections: A – compressed air supply, B – pipe system



Automatic purging via a microcontroller-commanded device – particularly for frequent purging in case of heavy soiling or icing up

Aspiration reductions for air purging:

01-10-9750 type AK-C

01-10-9580 to 01-10-9740

For valve control performance characteristics, please refer to the microcontroller specifications

Valve control

Accessories for establishing a valve control for automatically controlling the purging process. Various microcontrollers are available for different purging and settling times

Article no. AD-10-0561



Performance characteristics:

- Enables air purging of two separate pipe systems
- Device prepared for accommodating a micro-controller that is adapted to the operating conditions

Valve control
Type VSK1/c

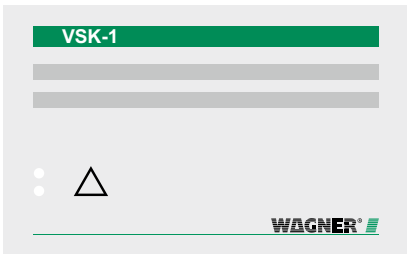
For automatic purging of iced up or soiled pipe systems

Data sheet excerpt:

Operating voltage	24 V DC (14 to 30 V DC)
Rated voltage	24 V DC
Current draw in stand-by (24 V)	20 mA
Current draw during valve control (24 V)	100 mA
Operating temperature range	−40 °C to +60 °C
Dimensions (W × H × D)	200 × 140 × 80 mm
Housing material	ABS plastics
Housing color	RAL 7035, Light gray

VPE	1 pc
i	Required front film sheet: AD-10-0480
i	Required microcontrollers: see page 106

Article no. AD-10-0480



Front film sheet for valve control
Type FW-VC

For indicating the operating status of the valve control

VPE	1 pc
-----	------

Microcontroller for valve control



Microcontroller for valve control

NEW

Programmed microcontroller for controlling the automatic air purging process of the valve control, for purging soiled or iced-up pipe systems. A fault reported by the aspirating smoke detector is forwarded after two purging cycles if the purging process failed to remedy the fault (e.g. in case of pinched pipes).

Data sheet excerpt:

Performance characteristics	Air purging in case of fault, and optionally also as prophylaxis
-----------------------------	--

VPE 1 pc

For installation in valve control type VSK1/c

Microcontroller							
Use for	Air purging		Purging time [s]	Settling time [s]	Test time [s]	Article number	Type
	In case of fault	Prophylactic					
Soiling	×	—	1 × 10	20	55	AD-10-1095	MC-VC-R-7
	×	Every 24 h	1 × 10	20	55	AD-10-1105	MC-VC-R-8
	×	Every 24 h	1 × 20	12	55	AD-10-1155	MC-VC-R-11
	×	Every 3 h	1 × 10	20	55	AD-10-1145	MC-VC-R-10
	×	Every 60 min	1 × 10	20	55	AD-10-1135	MC-VC-R-9
Icing up	×	—	3 × 5	10	55	AD-10-1115	MC-VC-F-3
	×	Every 24 h	3 × 5	10	55	AD-10-1125	MC-VC-F-4

Valves for automatic air purge systems**Valves**

Valves for compressed air connection, to relieve the pipe system and automatically separate an aspirating smoke detector from the connected pipe system

Article no. **AD-10-0940****Performance characteristics:**

- Pneumatically controlled 2/2-way piston valve (angled seat) with fitted pilot valve (currentless open)
- Prepared for connecting to 25 mm pipe systems

Shutoff valve with pilot valve / fittings**Type AVK-PV**

For separating an aspirating smoke detector from the connected pipe system during an automatic air purging process

Data sheet excerpt:

Switching voltage	24 V DC
Operating temperature range	–10 °C to +60 °C
Operating pressure	Max. 16 bar
Control pressure	4 to 10 bar
Material	Red brass
Control cylinder	Stamped brass
Seat gasket	PTFE
Spindle gasket	NBR

VPE 1 pc

Article no. **AD-10-0945****Performance characteristics:**

- Pneumatically controlled 2/2-way piston valve (angled seat) with fitted pilot valve (currentless open)
- Prepared for connecting to 25 mm pipe systems

Shutoff valve with pilot valve / fittings**Type AVK-PV-F**

For separating an aspirating smoke detector from the connected pipe system during an automatic air purging process in cold storage areas

Data sheet excerpt:

Switching voltage	24 V DC
Operating temperature range	–40 °C to +60 °C
Operating pressure	Max. 16 bar
Control pressure	4 to 10 bar
Material	Red brass
Control cylinder	Stamped brass
Seat gasket	PTFE
Spindle gasket	EPDM

VPE 1 pc

Article no. **AD-10-0950**



Performance characteristics:

- Servo-controlled seat valve (currentless closed) with diaphragm seal
- Prepared for connecting to 25 mm pipe systems

**Compressed air valve including fittings
Type DVK13**

For releasing a compressed air supply connected to the pipe system during an automatic air purging process

Data sheet excerpt:

Switching voltage	24 V DC
Operating temperature range	–10 °C to +60 °C
Operating pressure	0.3 to 20 bar
Material	Brass
Control cylinder	Stamped brass
Spindle gasket	NBR

VPE 1 pc

Article no. **AD-10-0955**



Performance characteristics:

- Servo-controlled seat valve (currentless closed) with diaphragm seal
- Prepared for connecting to 25 mm pipe systems

**Compressed air valve including fittings
Type DVK13-F**

For releasing a compressed air supply connected to the pipe system during an automatic air purging process in cold storage areas

Data sheet excerpt:

Switching voltage	24 V DC
Operating temperature range	–40 °C to +60 °C
Operating pressure	0.3 to 20 bar
Material	Brass
Control cylinder	Stamped brass
Spindle gasket	EPDM

VPE 1 pc

The ball valve performance characteristics are assigned to the individual types

Ball valves

Ball valves for separating an aspirating smoke detector manually from the connected air sampling pipe

Article no. **AD-10-0970**



Performance characteristics:

- Incl. three transition screw connections for connecting to a 25 mm pipe system

**2-way ball valve including fittings
Type 2KH**

For separating an aspirating smoke detector manually from the connected pipe system

Data sheet excerpt:

Operating temperature range	–45 °C to +180 °C
Length	188 mm
Operating pressure	Max. 50 bar
Housing material	Stainless steel
Ball material	Stainless steel
Seal	PTFE
Hand lever	Steel, plastic-coated

VPE 1 pc

Article no. **AD-10-0960**



Performance characteristics:

- Incl. three transition screw connections for connecting to a 25 mm pipe system

**3-way ball valve including fittings
Type 3KH**

For separating an aspirating smoke detector manually from the connected pipe system during an air purging process

Data sheet excerpt:

Operating temperature range	–20 °C to +150 °C
Length	194 mm
Operating pressure	Max. 16 bar
Housing material	Brass, nicked
Ball material	Brass, chromed
Seal	PTFE
Hand lever	Steel, plastic-coated

VPE 1 pc

Article no. **AD-10-0965****Performance characteristics:**

- Incl. three transition screw connections for connecting to a 25 mm pipe system

**3-way ball valve including fittings
Type 3KH-F**

For separating an aspirating smoke detector manually from the connected pipe system during an air purging process in cold storage areas

Data sheet excerpt:

Operating temperature range	–40 °C to +80 °C
Length	194 mm
Operating pressure	Max. 10 bar
Housing material	Brass, nickeled
Ball material	Brass, chromed
Seal	PTFE
Hand level	Steel, plastic-coated

VPE 1 pc

Article no. **AD-10-0925****Performance characteristics:**

- Incl. three transition screw connections for connecting to a 25 mm pipe system

**3-way ball valve including fittings
Type 3KH-PVC**

For separating an aspirating smoke detector manually from the connected pipe system during an air purging process

Data sheet excerpt:

Operating temperature range	0 °C to +50 °C
Length	131 mm
Operating pressure	Max. 10 bar
Material	PVC
Seal	PTFE

VPE 1 pc

Article no. **AD-10-0915****Performance characteristics:**

- Incl. three transition screw connections for connecting to a 25 mm pipe system

**3-way ball valve including fittings
Type 3KH-ABS**

For separating an aspirating smoke detector manually from the connected pipe system during an air purging process. Can be used in cold storage areas and/or for halogen-free project planning

Data sheet excerpt:

Operating temperature range	–40 °C to +50 °C
Length	131 mm
Operating pressure	Max. 10 bar
Material	ABS
Seal	PTFE

VPE 1 pc

Pipe closures for air purge systems**Non-return valve****Valve for cleaning the pipe system by means of bursts of compressed air**Article no. **01-10-9380****Performance characteristics:**

- Installation is done at the end of each piping branch for pipe systems with an air purge system

**Non-return valve, spring-loaded
Type RSV-R25****For cleaning the pipe system during an air purging process****Data sheet excerpt:**

Connection diameter	25 mm
Color	Dark gray
Minimum opening pressure	0.5 bar
Housing material	PVC
Operating temperature range	0 °C to +50 °C

VPE 1 pc

i Not suitable for cold storage applications!

**Installation and connection accessories
for air purge systems****Accessories****Quick-connect coupling for establishing an air purge system**Article no. **AD-10-0880****Performance characteristics:**

- Incl. transition connection for connecting to a 25 mm pipe system

**Quick-connect coupling with fittings
Type SSK-M/F****For detachable connection of a compressed air supply to a pipe system****Data sheet excerpt:**

Operating temperature range	-20 °C to +80 °C
-----------------------------	------------------

VPE 1 pc

For specific performance characteristics, please refer to the descriptions of the filter types

Air filters

Air filters for separating dust particles from the aspirated air in order to extend the inspection intervals

Article no. **AD-10-1975**



NEW

Air filter for TITANUS® Type LF-AD-k

Filters dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Operating temperature range	–30 °C to +60 °C
Dimensions (W × H × D)	80 × 85 × 82 mm
Housing material	ABS plastics
Housing color	RAL 7035, Light gray

VPE 1 pc

Performance characteristics:

- Coarse filter for use in standard applications
- Suitable for wall mounting

Article no. **AD-10-1960**



Air filter for TITANUS® Type LF-AD/a

Filters dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Operating temperature range	–30 °C to +60 °C
Dimensions (W × H × D)	130 × 193 × 95 mm
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

VPE 1 pc

Performance characteristics:

- Use in standard applications
- Suitable for wall mounting
- Filters particles from a size of approx. 15 µm
- Filter for separating dust particles such as insects, fibres, hair and pollen

Article no. **AD-10-1963****Air filter for TITANUS®
Type LF-AD-1/a**

Filters dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Operating temperature range	–30 °C to +60 °C
Dimensions (W × H × D)	130 × 193 × 95 mm
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

VPE 1 pc

Performance characteristics:

- Use in standard applications
- Suitable for wall mounting
- Filters particles from a size of approx. 10 µm
- Filter for separating dust particles such as insects, fibres, hair and pollen, paint pigments and finer dusts

Article no. **AD-10-1966****Air filter for TITANUS®
Type LF-AD-2/a**

Filters fine dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Operating temperature range	–30 °C to +60 °C
Dimensions (W × H × D)	130 × 193 × 95 mm
Housing material	ABS plastics
Housing color	RAL 9018, Papyrus white

VPE 1 pc

Performance characteristics:

- Use in applications with fine particulate contamination
- Suitable for wall mounting
- Filters particles from a size of approx. 5 µm
- Filter for separating particles such as fine particulate matter

Article no. **AD-10-0336****Filter element**
Type LF-AD-E-k**NEW**

Replacement element for air filter type LF-AD-k, consisting of one coarse filter mat

Data sheet excerpt:

Operating temperature range -30 °C to +60 °C

VPE 1 set

Article no. **AD-10-0330****Filter element**
Type LF-AD-E

Replacement element for air filter type LF-AD, consisting of one fine, one medium and one coarse filter mat each

Data sheet excerpt:

Operating temperature range -30 °C to +80 °C

VPE 1 set

Article no. **AD-10-0335****Filter element for air filter LF-AD**
Type LF-AD-E_Sonder

Replacement element for air filter type LF-AD-1, consisting of 3 fine filter mats

Data sheet excerpt:

Operating temperature range -30 °C to +80 °C

VPE 1 set

Article no. **AD-10-0332****Filter element for air filter LF-AD-2**
Type LF-AD-E-2

Replacement element for air filter type LF-AD-2, consisting of one ultra-fine, one medium and one coarse filter mat each

Data sheet excerpt:

Operating temperature range -30 °C to +80 °C

VPE 1 set

For specific performance characteristics, please refer to the descriptions of the filter types

Special filters

Special air filters for separating dust particles from very dusty areas

Data sheet excerpt:

Operating temperature range	–20 °C to +60 °C
Diameter	80 mm

Article no. **AD-10-2000**



Special filter for TITANUS® aspirating smoke detectors Type SF-650

Filters ultra-fine dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Length	673 mm
--------	--------

VPE 1 pc

Performance characteristics:

- Use in heavily contaminated areas where longer service lives are required
- Housing resistant to many organic and inorganic chemicals, fuels and hot water
- Filters particles from a size of approx. 1 µm

Article no. **AD-10-2010**



Special filter for TITANUS® aspirating smoke detectors Type SF-400

Filters ultra-fine dirt and dust particles out of the air aspirated by the aspirating smoke detector

Data sheet excerpt:

Length	418 mm
--------	--------

VPE 1 pc

Performance characteristics:

- Use in heavily contaminated areas
- Housing resistant to many organic and inorganic chemicals, fuels and hot water
- Filters particles from a size of approx. 1 µm

Article no. **AD-10-1920****Filter element
Type SF-650-E****Replacement element for special filter type SF-650****Data sheet excerpt:**

Operating temperature range	−20 °C to +60 °C
Length × diameter	508 × 64 mm
Material	Polypropylene

VPE	1 pc
-----	------

Article no. **AD-10-1930****Filter element
Type SF-400-E****Replacement element for special filter type SF-400****Data sheet excerpt:**

Operating temperature range	−20 °C to +60 °C
Length × diameter	254 × 64 mm
Material	Polypropylene

VPE	1 pc
-----	------

Detonation flame arresters and accessories**Detonation flame arresters**

Accessories for monitoring rooms in which the formation of explosive gas/air mixtures or vapor/air mixtures is to be expected; for use in TITANUS FUSION®, TITANUS PRO-SENS®, TITANUS PRO-SENS®/net and TITANUS TOP-SENS®

Article no. **01-10-7051****Performance characteristics:**

- EC type-tested
- Incl. transition screw connection on one end for connecting to the air sampling pipe system

**Detonation flame arrester, set
Type EG IIA/a**

For protecting potentially explosive areas from possible ignition of gas/air mixtures or vapor/air mixtures by the aspirating smoke detectors used to monitor these areas

Data sheet excerpt:

Pipe connecting thread	G ¾"
Explosion group	II A
Length × diameter	112 × 80 mm
Gap width	0.7 mm
Flame filter	3-fold

VPE 1 pc

Article no. **01-10-7061****Performance characteristics:**

- EC type-tested
- Incl. transition screw connection on one end for connecting to the air sampling pipe system

**Detonation flame arrester, set
Type EG IIB3/a**

For protecting potentially explosive areas from possible ignition of gas/air mixtures or vapor/air mixtures by the aspirating smoke detectors used to monitor these areas

Data sheet excerpt:

Pipe connecting thread	G ¾"
Explosion group	II B 3
Length × diameter	135 × 80 mm
Gap width	0.5 mm
Flame filter	5-fold

VPE 1 pc

Article no. **01-10-7071**

Performance characteristics:

- EC type-tested
- Incl. two reducing nipples and a transition screw connection for connecting to the air sampling pipe system

Detonation flame arrester, set Type EG IIC/a	
For protecting potentially explosive areas from possible ignition of gas/air mixtures or vapor/air mixtures by the aspirating smoke detectors used to monitor these areas	
Data sheet excerpt:	
Pipe connecting thread	G 1"
Explosion group	II C
Length × diameter	145 × 100 mm
Gap width	0.2 mm
Flame filter	5-fold
VPE	1 pc

Article no. **01-10-9016**

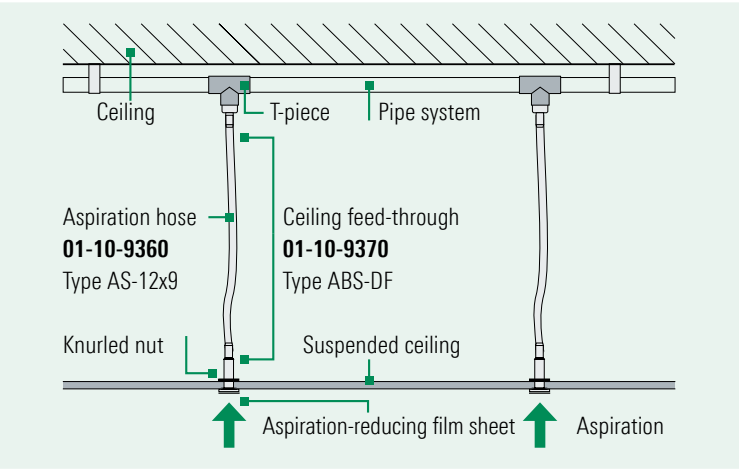


Steel air sampling pipe with screw connection Type R-2525-St	
Pre-assembled air sampling pipe for connecting the detonation flame arrester to the aspirating smoke detector	
Data sheet excerpt:	
Outer diameter	25 mm
Inner diameter	20 mm
Color	Steel gray
VPE	1 m / unit

Accessories for inconspicuous monitoring of aesthetically demanding areas

Ceiling feed-through

Accessories for installing a pipe system in suspended ceilings. Discrete design thanks to ceiling feed-through



Sample setup for a ceiling feed-through

Article no. **01-10-9360**



**Aspiration hose 12 x 9 mm
Type AS-12 x 9**

Aspiration hose for ceiling feed-through

Data sheet excerpt:

Operating temperature range	-10 °C to +40 °C
Material	PE
Color	White
VPE	50 meters

Article no. **01-10-9370**



**Ceiling feed-through
Type ABS-DF**

For installing a sampling point on a suspended ceiling with a max. thickness of 35 mm

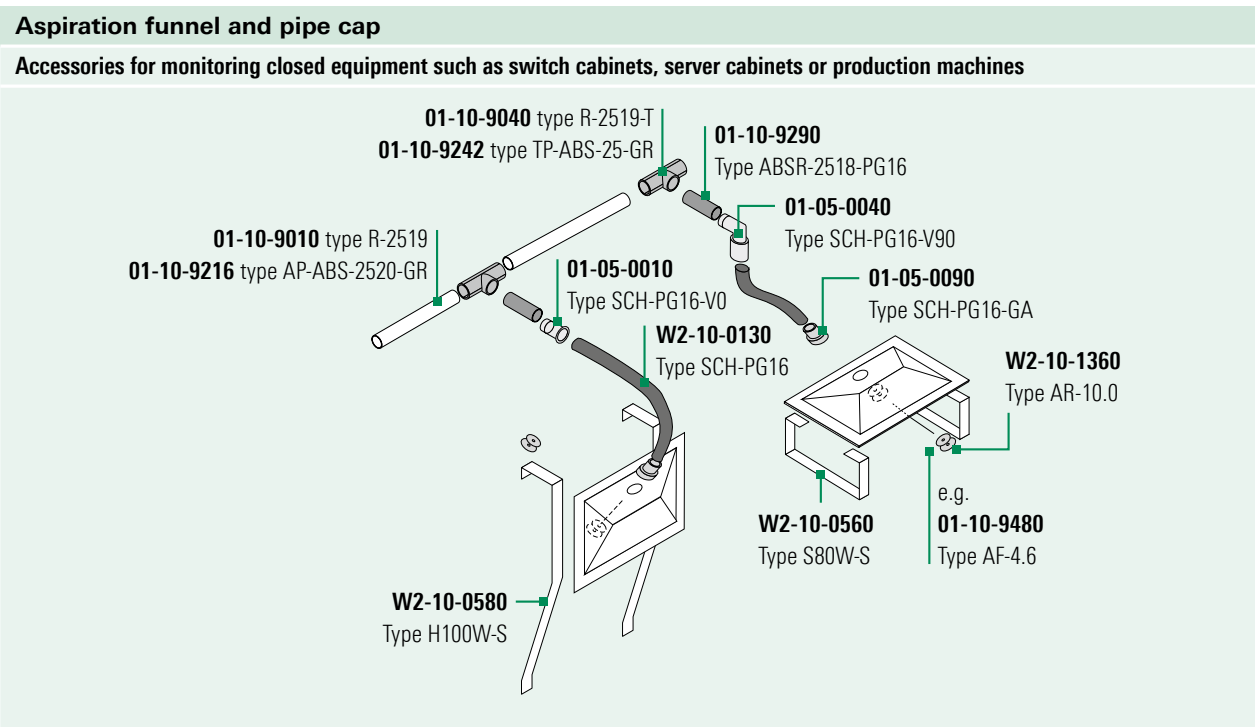
Data sheet excerpt:

Operating temperature range	-40 °C to +80 °C
Color	White
VPE	10 pcs / bag

Performance characteristics:

- Complete with fitting set for the ceiling board and connection adapter for the aspiration hose

Accessories for equipment monitoring



Sample setup for an aspiration funnel

Article no. **W2-10-0510**



Aspiration funnel
Type ASTW

For concentrating the exhaust air on monitored equipment

Data sheet excerpt:

Dimensions (W × H × D)	260 × 160 × 40 mm
Material	Metal
Color	Papyrus white

VPE 1 pc

Article no. **W2-10-0130**



Aspiration hose
Type SCH-PG16

Halogen-free aspiration hose for constructing flexible pipe transitions in a pipe system

Data sheet excerpt:

Outer diameter	21.2 mm
Inner diameter	16.0 mm
Operating temperature range	−50 °C to +95 °C
Color	Gray
Recomm. screw thread	M20 × 1.5; PG 16
Bending radius	35 mm
Material	Polyamide

VPE 50 meters

i For required adapters and glands, see page 122

Article no. **01-10-9350****Aspiration hose
Type SCH-P-25****Aspiration hose for constructing flexible pipe transitions in a pipe system****Data sheet excerpt:**

Outer diameter	25 mm
Inner diameter	20 mm
Operating temperature range	-10 °C to +55 °C
Bending radius	75 mm
Material	PVC

VPE	25 meters
-----	-----------

Article no. **W2-10-0560****Spacer bracket set 80 mm
Type S80W-S****For installing an aspiration funnel at a distance of 80 mm from the monitored equipment****Data sheet excerpt:**

Color	RAL 9018, Papyrus white
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VPE	1 pc
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Article no. **W2-10-0570****Spacer bracket set 30 mm
Type S30W-S****For installing an aspiration funnel at a distance of 30 mm from the monitored equipment****Data sheet excerpt:**

Color	RAL 9018, Papyrus white
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VPE	1 pc
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Article no. **W2-10-0580****Suspension bracket set 90 mm
Type H100W-S****For suspended installation of an aspiration funnel at a distance of 90 mm from the monitored equipment****Data sheet excerpt:**

Color	RAL 9018, Papyrus white
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VPE	1 pc
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Article no. **01-05-0010**



Hose gland
Type SCH-PG16-VO

Straight transition from aspiration hose to air sampling pipe
with PG16 internal thread

VPE 1 pc

Article no. **01-05-0040**



Hose gland
Type SCH-PG16-V90

90° transition from aspiration hose to air sampling pipe
with PG16 internal thread

VPE 1 pc

Article no. **01-05-0090**



PG16 thread adapter
Type SCH-PG16-GA

Adapter for transition from aspiration hose to aspiration reduction
Type AR-10.0

VPE 1 pc

Article no. **01-10-9290**



Pipe with PG16 internal thread, halogen-free
Type ABSR-2518-PG16

Fitting for establishing a pipe system for room
and equipment monitoring

Data sheet excerpt:

Color	Light gray
Operating temperature range	−40 °C to +80 °C
VPE	5 pcs/ bag

Article no. **W2-10-1360****Aspiration reduction
Type AR-10.0****Aspiration reduction, featuring a 10 mm hole for attaching an aspiration-reducing film sheet****Data sheet excerpt:**

Exterior dimensions	PG 16
Operating temperature range	−40 °C to +80 °C

VPE 10 pcs / bag

i Article no.: 01-10-9290 required
Article no. **01-10-9300****Pipe cap
Type R-RH****Fitting for establishing a pipe system for equipment monitoring; prepared for attaching an aspiration-reducing film sheet****Data sheet excerpt:**

Operating temperature range	−20 °C to +60 °C
Material	PVC
Color	Dark gray

VPE 10 pcs / bag
Article no. **01-10-9310****Pipe cap, halogen-free
Type ABS-RH****Fitting for establishing a pipe system for equipment monitoring; prepared for attaching an aspiration-reducing film sheet****Data sheet excerpt:**

Operating temperature range	−40 °C to +80 °C
Material	ABS
Color	Light gray

VPE 10 pcs / bag

Accessories for collecting the exhaust air

Collecting hood

Hood for collecting the exhaust air from an equipment element to be monitored

Data sheet excerpt:

Length	300 mm
Material	Metal
Color	Papyrus white

01-10-9290
Type ABSR-2518-PG16

W2-10-1480
Type SH300-E

W2-10-1470
Type SH300

e.g.
01-10-9480
Type AF-4.6

W2-10-2300 type HH30/3
W2-10-2310 type HH20/3

W2-10-1360
Type AR-10.0

W2-10-1070
Type HW/3

01-10-9010 type R-2519
01-10-9216 type AP-ABS-2520-GR

01-10-9060 type R-2519-M
01-10-9262 type CS-ABS-25-GR

01-05-0040
Type SCH-PG16-V90

W2-10-0130
Type SCH-PG16

01-05-0090
Type SCH-PG16-GA

Sample setup for a collecting hood

Article no. **W2-10-1470**



Collecting hood
Type SH300

Patented exhaust air collecting hood with air guide fins for connection via air sampling pipe or aspiration hose to an aspirating smoke detector with adjustable mounting height

VPE

1 pc

Article no. **W2-10-1480**



Extension for collecting hood
Type SH300-E

Patented exhaust air collecting hood with air guide fins for connection via air sampling pipe or aspiration hose to an aspirating smoke detector with adjustable mounting height

VPE

1 pc

Article no. **W2-10-1070****Holding bracket
Type HW/3**

For attaching a collecting hood type SH300 to the exhaust air openings of an equipment element to be monitored

Data sheet excerpt:

Material	Metal
Color	RAL 9018, Papyrus white

VPE 1 pc

Article no. **W2-10-2300****Suspension bracket
Type HH30/3**

For attaching a collecting hood type SH300 to the exhaust air openings of an equipment element to be monitored

Data sheet excerpt:

Suspension width	Max. 30 mm
Material	Metal
Color	RAL 9018, Papyrus white

VPE 1 pc

Article no. **W2-10-2310****Suspension bracket
Type HH20/3**

For attaching a collecting hood type SH300 to the exhaust air openings of an equipment element to be monitored

Data sheet excerpt:

Suspension width	Max. 20 mm
Material	Metal
Color	RAL 9018, Papyrus white

VPE 1 pc

Article no. **AD-10-4710****Device holder for aspirating smoke detectors
Type MT-2**

Device holder for stand-alone installation of **TITANUS FUSION®**,
TITANUS PRO-SENS®, **TITANUS PRO-SENS®/net**, **TITANUS TOP-SENS®**

Data sheet excerpt:

Dimensions (W × H × D)	200 × 365 × 184 mm
Net weight	1.8 kg
Material	Steel sheet, painted
Color	RAL 9018, Papyrus white

VPE 1 pc

i Pipe adapter type PA-W-P or PA-W-A required

Performance characteristics:

- Cut-outs for pipe feed-through and adapter cable of the optional shutdown module

Article no. **01-10-9065****Pipe adapter
Type PA-W-P**

Adapter for connecting the pipe system to an aspirating smoke detector
when using the device holder type MT-2

Data sheet excerpt:

Operating temperature range	−10 °C to +60 °C
Material	PVC
Color	Dark gray

VPE 1 pc

Article no. **01-10-9265****Pipe adapter
Type PA-W-A**

Adapter for connecting the pipe system to an aspirating smoke detector
when using the device holder type MT-2

Data sheet excerpt:

Operating temperature range	−40 °C to +80 °C
Material	ABS
Color	Light gray

VPE 1 pc


Fire-resistant collar for air sampling pipe



Fire-resistant collar

Fire-resistant collar for wall and ceiling feed-through of flammable pipe systems in firewalls; meets the requirements for fire resistance Class R90

Data sheet excerpt:

Operating temperature range	−35 °C to +105 °C
Material	ABS
 Approval number: Z-19.17-416	


Article no. **01-10-8060**

Performance characteristics:

- Tested for fire resistance class R90 and approved for flammable pipes made of PVC and ABS
- Wall thickness for feed-through must be at least 175 mm

Fire-resistant collar for firewalls
Type R90/<300

Fire-resistant collar for wall and ceiling feed-through of flammable pipe systems in firewalls; to be used for walls and ceilings up to 300 mm thickness

 1 pc
--


Article no. **01-10-8065**

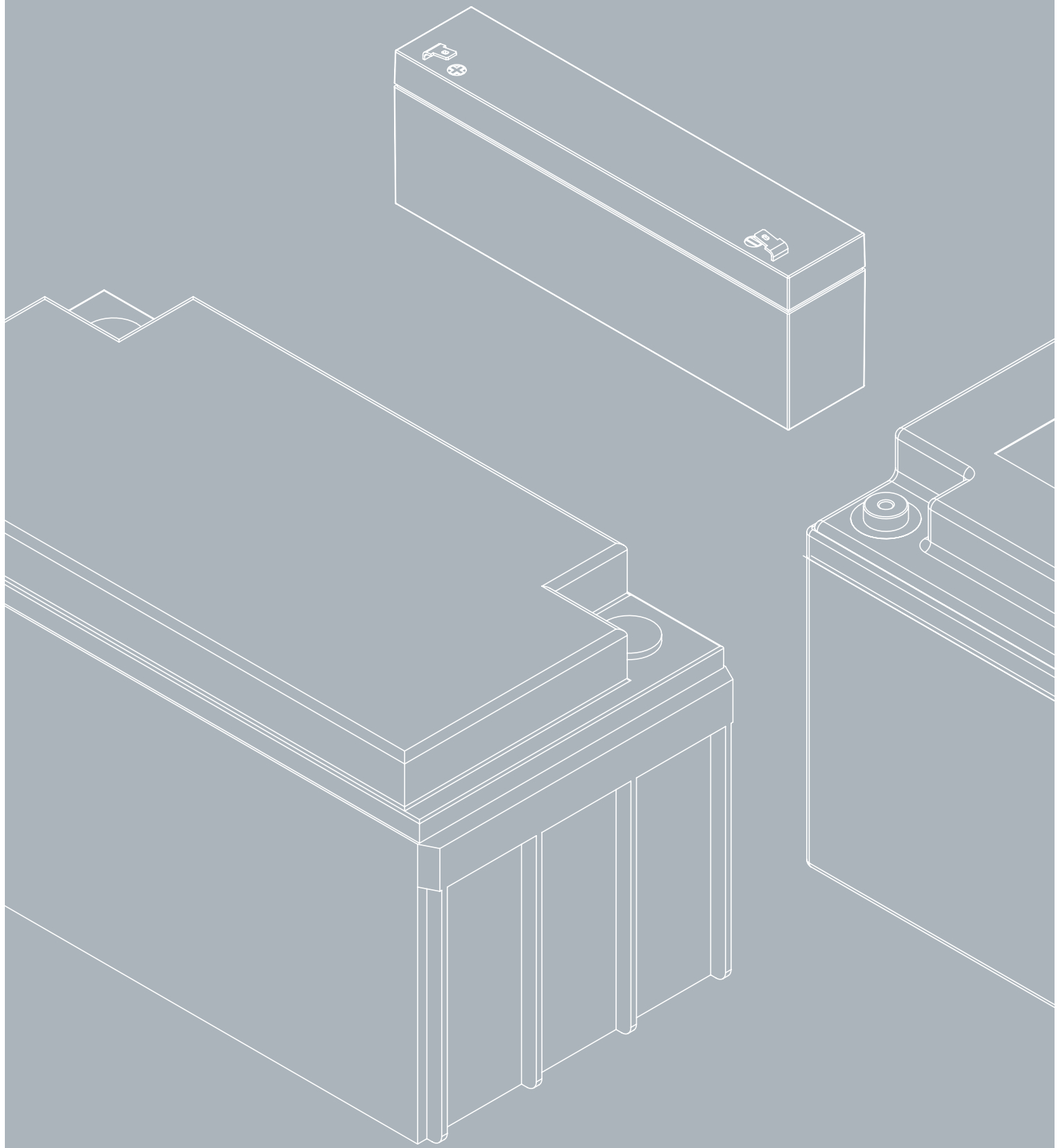
Performance characteristics:

- Tested for fire resistance class R90 and approved for flammable pipes made of PVC and ABS up to an outer diameter of 140 mm
- Wall thickness for feed-through must be at least 175 mm

Fire-resistant collar for firewalls
Type R90/>300

Fire-resistant collar for wall and ceiling feed-through of flammable pipe systems in firewalls; to be used for walls and ceilings up to 300 mm thickness

 1 pc
--



Power supplies

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For technical data and performance characteristics, please refer to the respective power supply types

Common performance characteristics:

- Version in accordance with EN 54-4/A2
- Dry contacts for "mains fault" and "battery fault"
- Battery fusing
- Battery deep discharge protection
- Integrated overvoltage protection

Article no. **SV-10-0160**



Performance characteristics:

- Battery capacity 12 Ah
- Four visual status indicators at the housing front for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

Power supplies in housing
Power supplies for aspirating smoke detectors in wall housing

Power supply Type BNL-3-12-H	
Battery-buffered power supply in wall housing	
VaS	G 210040
Data sheet excerpt:	
Input voltage	230 V +/- 15%, 50 to 60 Hz
Output voltage	27.2 V DC +/- 2%
Output current	3 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	-5 °C to +40 °C
Dimensions (W x H x D)	248 x 322 x 126 mm
Housing material	Steel sheet / plastic
Housing color	Light gray
VPE	1 pc

Article no. **SV-10-0165****Performance characteristics:**

- Battery capacity 12 Ah
- Four visual status indicators at the housing front for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

**Power supply
Type BNL-3-24-H****Battery-buffered power supply in wall housing****VaS** G 210040**Data sheet excerpt:**

Input voltage	230 V +/- 15%, 50 to 60 Hz
Output voltage	27.2 V DC +/- 2%
Output current	3 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	-5 °C to +40 °C
Dimensions (W x H x D)	289 x 350 x 189 mm
Housing material	Steel sheet
Housing color	Light gray

VPE 1 pcArticle no. **SV-10-0170****Performance characteristics:**

- Battery capacity 12 Ah
- Four visual status indicators at the housing front for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

**Power supply
Type BNL-6-24-H****Battery-buffered power supply in wall housing****VaS** G 210041**Data sheet excerpt:**

Input voltage	230 V +/- 15%, 50 to 60 Hz
Output voltage	27.2 V DC
Output current	6 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	-5 °C to +40 °C
Dimensions (W x H x D)	289 x 350 x 189 mm
Housing material	Steel sheet
Housing color	Light gray

VPE 1 pc

Article no. **SV-10-0185**



Performance characteristics:

- Min. battery capacity: 26 Ah
- Max. battery capacity: 65 Ah
- Four visual status indicators at the housing front for "operation", "collective fault", "mains fault" and "battery fault"

Power supply
Type AkkuTEC 2412 VdS C

VdS **G 209167**

Data sheet excerpt:

Input voltage	230 V +/- 15%, 50 to 60 Hz
Output voltage	21.6 to 28.3 V DC
Output current	12 A (incl. battery charge)
Max. contact load	30 V DC / 0.5 A
Operating temperature range	-5 °C to +40 °C
Dimensions (W x H x D)	464 x 608 x 213 mm
Housing material	Steel sheet
Housing color	Light gray

VPE 1 pc

For technical data and performance characteristics, please refer to the respective power supply types

Common performance characteristics:

- Version in accordance with EN 54-4/A2
- Dry contacts for "mains fault" and "battery fault"
- Battery fusing
- Battery deep discharge protection
- Integrated overvoltage protection

Article no. **SV-10-0460**



Performance characteristics:

- Battery capacity 2 × 12 V DC / 38 Ah
- Four visual status indicators for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

Power supplies 482.6 mm (19")

Power supplies and installation accessories for aspirating smoke detectors for installation in 482.6 mm (19") subracks

**Power supply
Type BNL-6-38-R**

Battery-buffered power supply in 482.6 mm (19") frame

Data sheet excerpt:

Input voltage	230 V +/– 15%, 50 to 60 Hz
Output voltage	27.2 V DC +/– 2%
Output current	6 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	–5 °C to +40 °C
Dimensions (W × H)	482.6 × 133.5 mm
Dimensions (19")	3 U, 84 DU
Color	Light gray

VPE 1 pc

Article no. **SV-10-0470**



Performance characteristics:

- Battery capacity 2 × 12 V DC / 65 Ah
- Four visual status indicators for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

**Power supply
Type BNL-8-65-R**

Battery-buffered power supply in 482.6 mm (19") frame

VdS G 210140

Data sheet excerpt:

Input voltage	230 V +/– 15%, 50 to 60 Hz
Output voltage	27.2 V DC +/– 2%
Output current	8 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	–5 °C to +40 °C
Dimensions (W × H × D)	482.6 × 133.5 mm
Dimensions (19")	3 U, 84 DU
Color	Light gray

VPE 1 pc

Article no. **SV-10-0480**



Performance characteristics:

- Battery capacity 2 × 12 V DC / 65 Ah
- Four visual status indicators at the housing front for "mains fault", "battery fault", "output voltage 1 present" and "output voltage 2 present"

Power supply
Type BNL-12-65-R

Battery-buffered power supply in 482.6 mm (19") frame;
prepared for connection of two external batteries (max. 12 V / 65 Ah),
on the bottom of the 19" cabinet

VaS **G 210081**

Data sheet excerpt:

Input voltage	230 V +/- 15%, 50 to 60 Hz
Output voltage	27.2 V DC +/- 2%
Output current	12 A (incl. battery charge)
Max. contact load	24 V DC / 1 A or 120 V AC / 0.5 A
Operating temperature range	-5 °C to +40 °C
Dimensions (W x H)	482.6 x 133.5 mm
Dimensions (19")	3 U, 84 DU
Color	Light gray

VPE 1 pc

Batteries

Batteries

Maintenance-free lead batteries for integration in battery-buffered power supplies

Data sheet excerpt:

Operating temperature range	0 °C to +40 °C
Performance characteristics	With VdS approval

VPE

1 pc



Sample photo

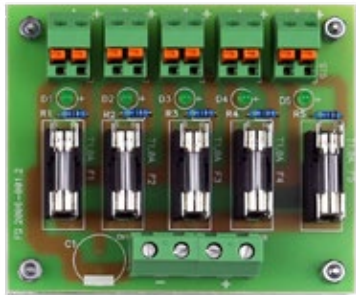
Batteries					
Capacity [Ah]	Dimensions [mm]	Weight, gross [kg]	VdS number	Article number	Type
2.1	178 × 35 × 66	1.0	G 103115	10-90-0200	CT2.1-12
7	151 × 65 × 99	2.4	G 103049	10-90-0300	CT7-12
12	155 × 100 × 100	3.8	G 103050	10-90-0450	CT12-12
17	181 × 77 × 167	5.7	G 103051	10-90-0500	CT17-12
18	181 × 167 × 77	5.3	G 114019	10-90-0510	CT18-12
24	180 × 130 × 175	8.3	G 103052	10-90-0600	CT24-12
26	175 × 166 × 125	8.2	G 109112	10-90-0610	CT26-12
38	200 × 175 × 165	13.0	G 103053	10-90-0700	CT38-12
44	198 × 157 × 167	13.3	G 111002	10-90-0710	CT44-12
65	348 × 178 × 167	21.0	G 104035	10-90-0800	CT65-12

Electrical accessories for installing power supplies

Electrical accessories

Electrical accessories for installing power supplies in subracks with 482.6 mm design (19")

Article no. **SV-10-0410**



Fuse module
Type FU-1

Extension module for individual fusing of the consumers connected to a power supply

Data sheet excerpt:

Micro-fuses	5 × 1 A / slow-blow
Dimensions (W × H × D)	90 × 100 × 35 mm
VPE	1 pc

Performance characteristics:

- Up to five consumers can be connected

Article no. **SV-10-0415**



Fuse module
Type FU-2

Extension module for individual fusing of the consumers connected to a power supply

Data sheet excerpt:

Micro-fuses	3 × 4 A / fast-blow
Dimensions (W × H × D)	43 × 78 × 25 mm
VPE	1 pc

Performance characteristics:

- Up to three consumers can be connected

Article no. **SV-10-0420**



**Fuse module
Type FU-3**

Extension module for individual fusing of the consumers connected to a power supply

Data sheet excerpt:

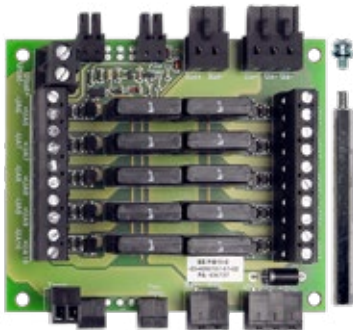
Micro-fuses	5 × 4 A / fast-blow
Dimensions (W × H × D)	59 × 99 × 25 mm

VPE	1 pc
-----	------

Performance characteristics:

- Up to five consumers can be connected

Article no. **SV-10-0430**



**Fuse module
Type FU-4**

Extension module for individual fusing of the consumers connected to a power supply

Data sheet excerpt:

Micro-fuses	10 × 1 A / slow-blow
Dimensions (W × H × D)	120 × 107 × 68 mm

VPE	1 pc
-----	------

Performance characteristics:

- Up to 10 consumers can be connected

Mechanical accessories for installing power supplies

Mechanical accessories

Article no. **08-20-1100**



**Battery holder
Type AF-1**

Battery holder for cabinet system TS 8806

VPE 1 pc

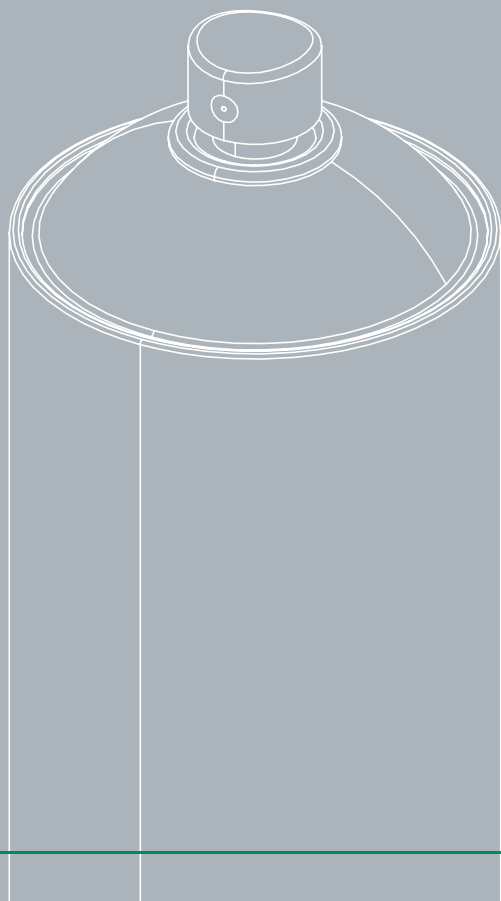
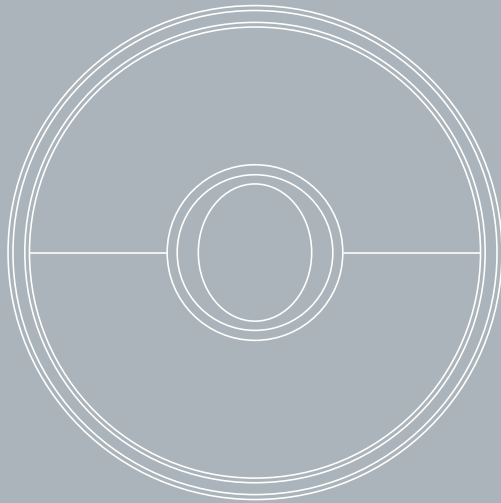
Article no. **08-20-1110**



**Profile rail for battery holder
Type PB-AF-1**

Profile rail for attaching batteries to the battery holder type AF-1

VPE 1 pc



Smoke and aerosol generation

Pyrolysis system	142
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Response test for highly sensitive aspirating smoke detectors

Pyrolysis/fire tests

Pyrolysis system and accessories for performing reproducible response tests for testing highly sensitive aspirating smoke detectors. The pyrolysis tests are carried out on site and are used for checking the project planning as well as for regular function checks within the scope of an inspection.

Article no. **95-10-0500**



Pyrolysis system Type PYS 100

For performing reproducible response tests on early fire detection systems; set consists of: pyrolysis unit, pyrolysis box, transport case, accessories

Data sheet excerpt:

Transport case dimensions (W × H × D)	600 × 500 × 300 mm
Weight	19 kg

VPE 1 pc

Article no. **95-10-0230**



Test coils for pyrolysis system PYS 100 Type TW-VE-E90

Standardized test coils for simulating the pyrolysis of electrical cables and components

Data sheet excerpt:

Length	2 m
--------	-----

VPE 10 pcs

Performance characteristics:

- Ready-cut 0.8 mm single wire with halogen-free insulation
- For response tests in rooms and electrical devices/cabinets

Smoke cartridges



Smoke cartridges

NEW

Smoke cartridges for testing smoke detectors and checking air flow conditions, e.g. in IT areas. Generate chlorine-free smoke

Smoke cartridges							
Smoke volume [m³]	Smoke duration [secs.]	Smoke color	Dimensions [mm]	Cartridge weight [g]	Article number	Type	Content [pcs/box]
2.5	40	White	32 × Ø 14	3	BM-50-0005	Pure-AX 3	10
8.5	90	White	32 × Ø 18	9	BM-50-0010	Pure-AX 9	10
17	180	White	63 × Ø 18	18	BM-50-0015	Pure-AX 18	5
55	180	White	63 × Ø 32	60	BM-50-0020	Pure-AX 60	5

Smoke matches

Smoke matches

Tools for performing response tests with TITANUS® aspirating smoke detectors; also suitable for use in oxygen-reduced environments (OxyReduct®)

Article no. **BM-50-1000**



Smoke matches
Type SPLINTAX 25

NEW

Smoke matches for testing the fire detection of aspirating smoke detectors

Data sheet excerpt:

Smoke time	20 secs.
Smoke volume	approx. 0.7 m³
Weight per smoke match	1 g
Diameter	4 mm
Length	45 mm

Tools for response tests

Tools

Tools for performing response tests with TITANUS® aspirating smoke detectors

Article no. **AD-05-0590**



**Smoke pen
Type CT-1**

Smoke pen for testing the fire detection of aspirating smoke detectors and commissioning the ROOM-IDENT seat of fire localization

VPE 1 pc

Performance characteristics:

- Incl. six smoke wicks (sufficient for approx. two hours of smoke generation each)

Article no. **AD-05-0595**



**Holder for smoke pen
Type AK-CT-1**

Holder for attaching the smoke pen type CT-1 to telescoping rods or extension pipes

VPE 1 pc

Article no. **AD-05-0597**



**Smoke wicks
Type SP-CT-1**

Smoke wicks for smoke pen type CT-1

VPE 6 pcs

Spray aerosol

Spray aerosol

Tool for performing a response test with TITANUS® aspirating smoke detectors and test adapters

Article no. **BM-10-1000**



Smoke aerosol
Type ORM und DO11

NEW

Spray can with 250 ml test aerosol for optical smoke detectors

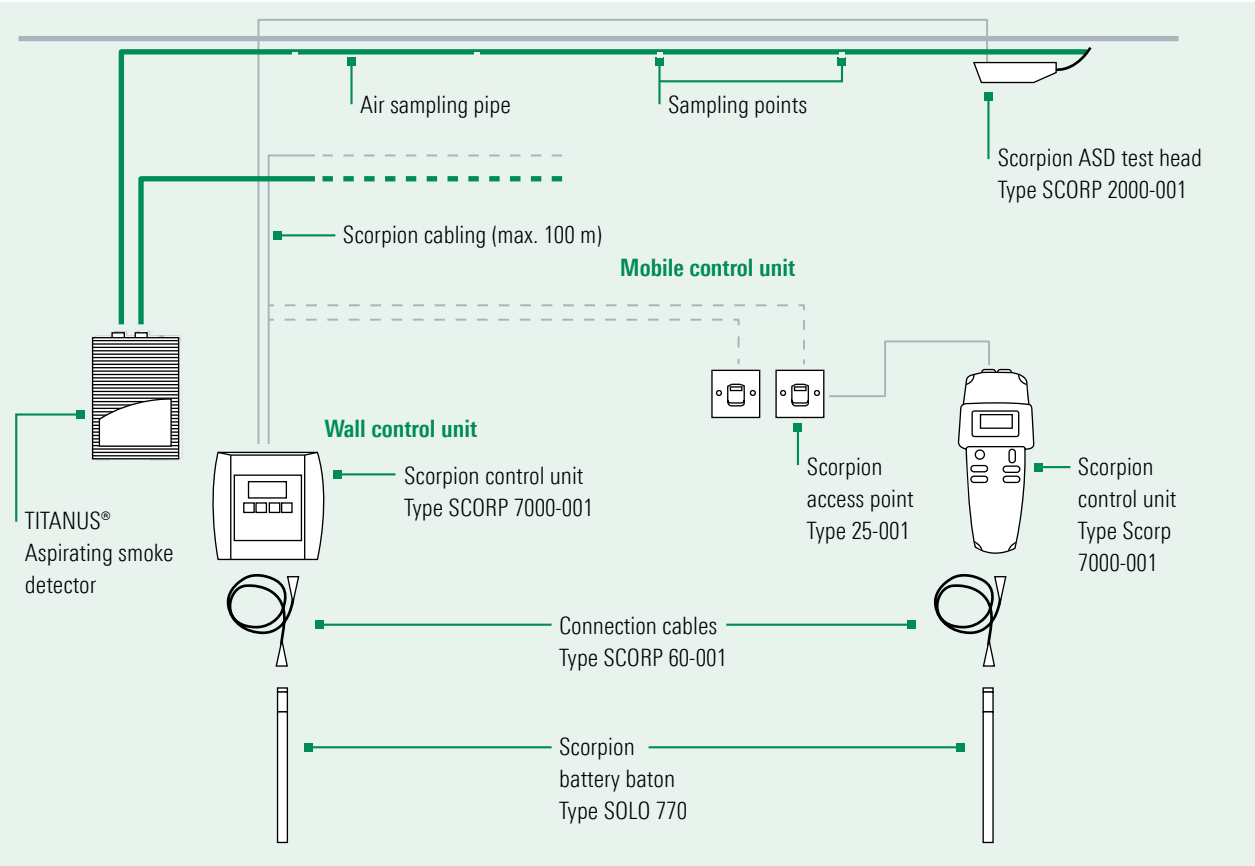
VPE 12 pcs

Remote testing system

Scorpion remote testing system

Test system for performing the response tests of aspirating smoke detectors with difficult-to-access sampling points

Sample installation with wall control unit or mobile control unit



Article no. 95-10-0600



Performance characteristics:

- Permanent installation at the end of a piping branch
- Up to 240 triggers possible
- Connection to Scorpion control unit Type 7000-001 or 8000-001

Scorpion ASD test head
Type SCORP 2001-001

NEW

Test head for remote smoke generation

Data sheet excerpt:

Operating temperature range	0 °C to +60 °C
Max. connection length	100 m
Dimensions (L × W × H)	155 × 54 × 34 mm
IP protection category	IP20
Color	Red

VPE 1 pc

Article no. 95-10-0625



Scorpion control unit
Type Scorp 7000-001

NEW

Mobile control unit for Scorpion remote testing system

Data sheet excerpt:

Operating temperature range	+5 °C to +45 °C
-----------------------------	-----------------

VPE

1 pc

i

Scorpion battery baton type SOLO 770 required

i

Scorpion access point type 25-001 required

Performance characteristics:

- Battery-powered
- Evaluation of transport time
- Mobile handheld device

Article no. 95-10-0620



Scorpion control unit
Type SCORP 8000-001

NEW

Control unit for Scorpion remote testing system for controlling up to 8 Scorpion test heads type SCORP 2001-001

Data sheet excerpt:

Operating temperature range	+5 °C to +45 °C
-----------------------------	-----------------

Dimensions (L × W × H)	150 × 155 × 37 mm
------------------------	-------------------

IP protection category	IP40
------------------------	------

VPE

1 pc

i

Scorpion battery baton type SOLO 770 required

Performance characteristics:

- Battery-powered
- Evaluation of transport time
- Intended for wall mounting

Article no. **BM-25-6271**
Scorpion battery baton
Type SOLO 770
NEW

Battery baton for power supply of Scorpion control units

Data sheet excerpt:

Operating temperature range	+5 °C to +45 °C
Battery capacity	3.000 mAh
Dimensions (L × W × H)	81 × 139 × 48 mm

VPE 1 pc

i Connection cable type SCORP 60-001 required

i Charger type SOLO 727-001 required

Performance characteristics:

- Charging time with charger type SOLO 727-001 max. 90 min.

Article no. **95-10-0655**
Connection cables
Type SCORP 60-001
NEW

Cable for connecting the type SOLO 770 battery baton to a Scorpion control unit

VPE 1 pc

Article no. **95-10-0651**
Charger
Type SOLO 727-001
NEW

Quick charger for charging the Scorpion battery baton via socket or car cigarette lighter

VPE 1 pc

Article no. **95-10-0630**
Scorpion Access Point
Type 25-001
NEW

Remote access point for mobile connection of the Scorpion control unit type SCORP 7000-001 to an ASD test head type SCORP 2001-001

VPE 1 pc



Software

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Project planning software



Project planning software

Software for project planning of TITANUS® aspirating smoke detectors

TITANUS PipeXpress®
Type TF-SC-1

Intuitive PC software for fast project planning of TITANUS® aspirating smoke detectors

Data sheet excerpt:

Operating system	Windows XP and later
Min. PC requirements	1 GHz, CD drive
Hard disk capacity, RAM	100 MB, 512 MB
VPE	1 pc

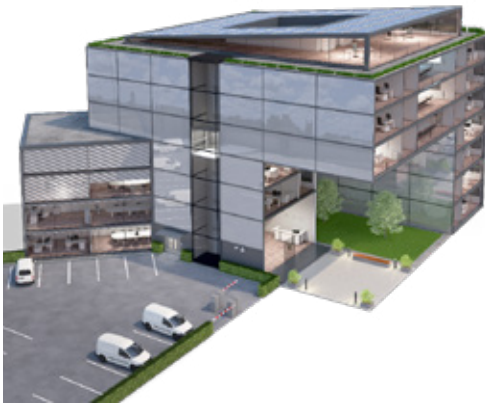
Performance characteristics:

- Pipe project planning and determining the required sensitivity within seconds
- For project planning in accordance with EN 54-20 / ISO 7240-20 and UL / NFPA
- Available in 15 languages
- With certificate of conformity
- Unique assurance in project planning in case of deviations between planning and implementation
- Approved in accordance with VdS and UL/ULC
- No software training required

Visualization and hazard management**Visualization and hazard management**

Scalable software for centralized collection of relevant data from TITANUS® aspirating smoke detectors for visualization or for setting up a hazard management system.

Article no. **on request**

**Software WinGuard****Type WinGuard**

WinGuard is a flexible, scalable solution for visualizing TITANUS® aspirating smoke detectors or setting up hazard management systems. The solution is available both as a stand-alone system and as a distributed system for a virtually unlimited number of sites, and can be optimally tailored to customer needs via the number of control stations and data point units.

WinGuard facilitates, among other things, the import of CAD files, the printing of fire department run maps and, depending on the equipment, e.g. notification by voice message, text message or email as well as remote access via an app (iOS, Android).

For more detailed information on how to structure your visualization or hazard management system, please get in touch with your WAGNER contact person.

VPE 1 pc

Performance characteristics:

- Central monitoring, control and linking of subsystems
- Predefined procedures for correct action in case of emergency
- Central operating unit for linking different subsystems
- More than 400 interfaces to systems from the sectors of building services and security technology, fire protection, IT and communications
- Modular scalability – from stand-alone systems to global networks with unlimited number of sites
- Correct user response thanks to workflow events and intuitive visualization
- Seamless documentation of all events

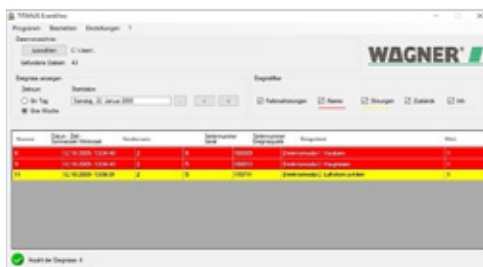
Tools for networking and data analysis

Tools for networking and data analysis

Software for centralized collection of relevant data from TITANUS® aspirating smoke detectors for visualization or for setting up a hazard management system.

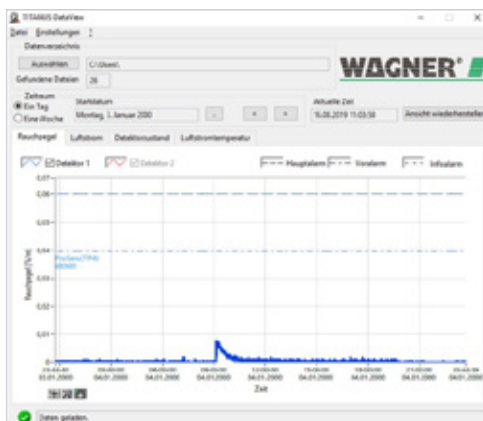
Data sheet excerpt:

Operating system	Windows XP and later
Min. PC requirements	1 GHz processor
Hard disk capacity	650 MB
Main memory	512 MB RAM

TITANUS® EventView
Type EventView

PC software for visualizing the alarms and faults from TITANUS® aspirating smoke detectors with timestamp and fault information

VPE 1 pc

TITANUS® DataView
Type DataView

PC software for time-related visualization of the history data from TITANUS® aspirating smoke detectors (air flow, smoke level, detector status); provides zoom, scaling and print function and a display of alarm levels

VPE 1 pc

TITANUS® LanXpress
Type LanXpress

PC software for integrating the network cards of TITANUS® aspirating smoke detectors and for assigning IP addresses

VPE 1 pc

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01-10-8110	89	01-10-9065	126	01-10-9590	101
01-10-8120	91	01-10-9070	90	01-10-9600	101
01-10-8130	91	01-10-9207	92	01-10-9610	101
01-10-8140	91	01-10-9215	89	01-10-9620	101
01-10-8150	91	01-10-9216	89	01-10-9630	101
01-10-8160	91	01-10-9225	91	01-10-9640	101
01-10-8170	91	01-10-9235	91	01-10-9650	101
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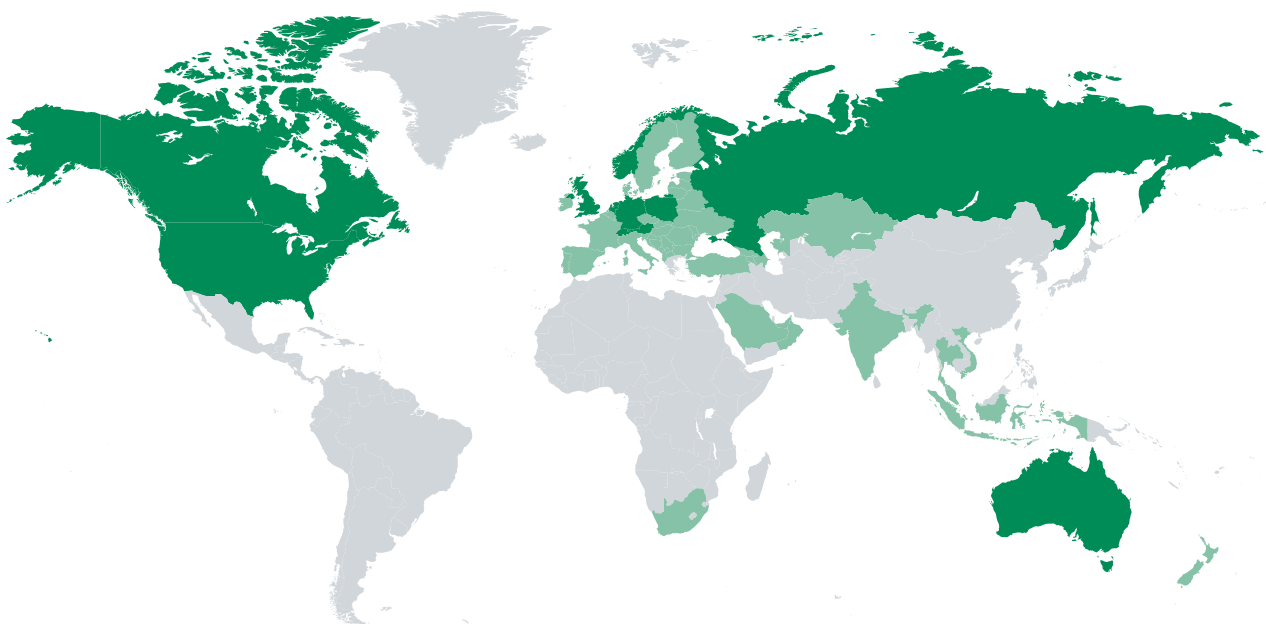
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