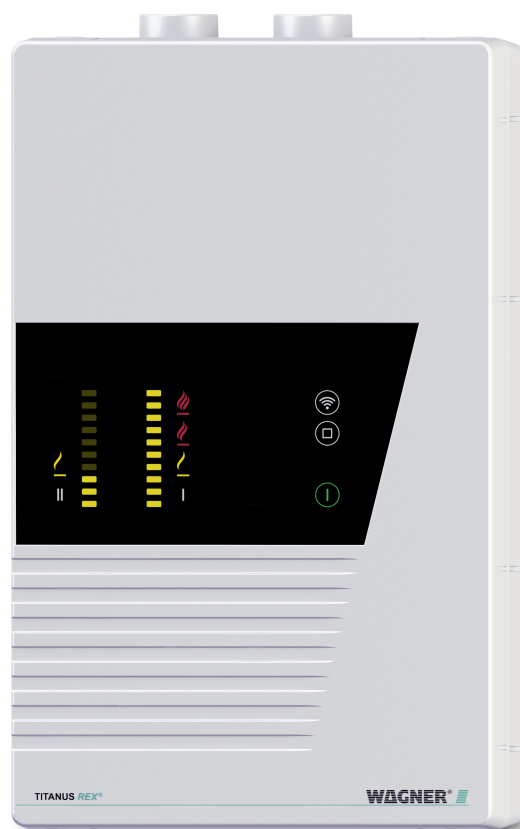




TITANUS REX® Aspirating Smoke Detector

More flexible, more responsive, simply smarter.
Next-generation fire detection.

Technology

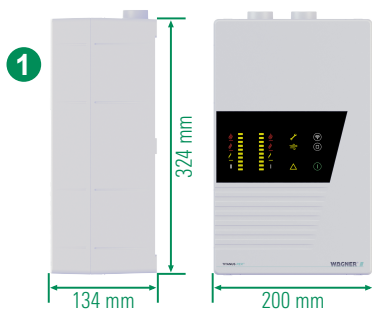
The innovative TITANUS REX® aspirating smoke detector can actively monitor up to two areas independently of one another and provides highly sensitive monitoring with a very high level of immunity to nuisance alarms.

Thanks to state-of-the-art digital tools, project planning, commissioning, and maintenance can be carried out intuitively and efficiently. The system is designed for high-level accuracy with either wireless or wired operation of the detector.

Thanks to its modular design, TITANUS REX® can be optimally adapted to the requirements of each specific application. The detector thus also offers a high level of investment safety for installation and retrofitting.

Features

- Very early fire detection
- High level of immunity to nuisance alarms thanks to predictive *LOGIC·SENS® PLUS* fire pattern recognition
- Energy efficiency thanks to low power consumption starting at 90 mA
- Quiet operation starting at 23 dB(A)
- Suitable for use in very dusty areas and at temperatures as low as -32 °C
- 3 alarm levels for a graduated alarm concept
- Can be connected to many fire alarm control panels via potential-free contacts
- Meets the functional cybersecurity requirements according to IEC 62443 3:3
- Wide range of accessories for optimal adaptation to the application area
- Very high quality standards, Made in Germany



The aspirating smoke detector consists of the basic device **1** and one or two detector modules (for separate channels) **2**. Its functionality can be expanded using optional add-on modules.

The different variants of the TX-50M-W differ in terms of the bar graph (smoke level display) and the WiFi functionality

Type F301: without bar graph and without WiFi

Type F302: without bar graph and with WiFi

Type F303: with bar graph and with WiFi

Basic device	TX-50M-W (type codes F301, F302, and F303)		
Max. no. of pipe connections	2 sampling pipes, D _A = 25 mm or 3/4 inch (plus 1 air return)		
Max. no. of detector modules/sampling points	2	2 x 60	
Max. area of coverage/Max. pipe length	2 x 3,000 m ²	2 x 300 m	
Alarm levels (per channel)	3 (info, pre-alarm, main alarm), freely programmable		
Supply voltage	24 V DC (14 to 30 V DC) acc. to EN 54-4		
Display (buttons, programmable)	fault, service, operation, purge; 3 alarms per channel (WiFi, reset optional)		
Bar graph (smoke level display)	1 per channel (type F303), none (type F301, type F302)		
Diagnostic port, wireless/wired	WiFi/USB-C (type F302, type F303), USB-C only (type F301)		
Interfaces	Ethernet (optional) ¹ , RS-485 (optional) ¹		
Event log	approx. 20,000 events + cybersecurity login history		
Current consumption at rest (24 V DC)	1 channel: from 90 mA	2 channels: from 115 mA	
Current consumption alarm (24 V DC)	1 channel: from 140 mA	2 channels: from 200 mA	
Sound pressure level at a distance of 1 m	from 23 dB(A)		
Operating temperature range	–32 ... +60 °C		
Weight (without detector modules)	1.50 kg		
Permissible relative humidity	10 ... 95% RH		
Housing material and color	plastics (ABS), papyrus white (RAL 9018)		
IP protection class	IP 54		
FACP connection, standard (max.)	4 potential-free contacts, programmable, expandable to up to 20		
Contact rating	1 A, 30 V, max. 24 W		
General inputs (GPI)	1 monitored (up to 5), 1 unmonitored		
No. of cable entries/terminal connections	6 x M20, 4 x M25	Relay contacts/GPI: max. 1.5 mm ²	
Pipe monitoring	monitoring for transmission paths with impaired performance acc. to VdS 2543		
Internal filter	2 per channel (15 ppi)		
Max. no. of slots for add-on modules	2 (expandable to 4)		
Detector modules (type)	TX-DM-30M	TX-DM-10M	TX-DM-01M
Weight	approx. 0.20 kg per detector module		
Sensitivity range	0.03 ... 20% obs/m	0.01 ... 20% obs/m	0.0015 ... 20% obs/m
Sensitivity range main alarm	0.3 ... 20% obs/m	0.1 ... 20% obs/m	0.015 ... 20% obs/m
Max. sampling points, EN 54-20, Class A/B/C	2/5/30	6/20/60	40/50/60
Max. area of coverage, EN-54-20, Class A/B/C	300/750/3,000 m ²	900/3,000/3,000 m ²	2,000/3,000/3,000 m ²

Approvals

VdS (G 225018), CE, EN 54-20, ISO 7240-20. Additional approvals and certifications available upon request or at www.wagnergroup.com

Add-on modules

Relay module, type TX-RLM

¹ in preparation