



TITANUS REX® Aspirating Smoke Detector

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

Technology

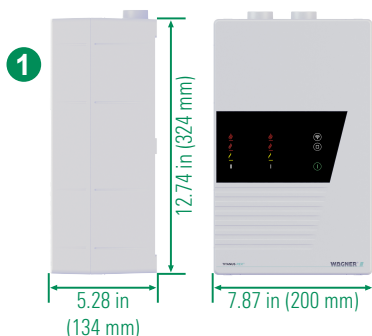
The innovative TITANUS REX® aspirating smoke detector can actively monitor up to two areas independently of one another and provides highly sensitive monitoring with a very high level of immunity to nuisance alarms.

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 -25.6 °F (-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 WiFi functionality.

Type F341: without bar graph and without WiFi

Type F342: without bar graph and with WiFi

Basic device	TX-50M-W (type codes F301, F302, and F303)	
No. of pipe connections	2 sampling pipes; 4 sampling pipes with adapter (plus 1 air return)	
Diameter of pipe connections	0.75 in 25 mm	
Max. no. of detector modules/sampling points	2	108 (2 x 54)
Max. area of coverage	53.800 ft ² (2 x 26.900 ft ²) 5.000 m ² (2 x 2.500 m ²)	
Max. pipe length	1,640 ft (2 x 820 ft) 500 m (2 x 250 m)	
Alarm levels (per channel)	3 (info, pre-alarm, main alarm), freely programmable	
Supply voltage	24 V DC (14 to 30 V DC)	
Display (buttons, programmable)	fault, service, operation, purge; 3 alarms per channel (WiFi, reset optional)	
Bar graph (smoke level display)	-	
Diagnostic port, wireless/wired	WiFi/USB-C (Typ F342), USB-C only (Typ F341)	
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 3.28 ft (1 m)	from 23 dB(A)	
Operating temperature range	-25.6 ... +140 °F -32 ... +60 °C	
Weight (without detector modules)	3.31 lbs 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. AWG 16 1.5 mm ²
Pipe monitoring	monitoring for transmission paths with impaired performance	
Internal filter	2 per channel (15 ppi)	
Max. no. of slots for add-on modules	2 (expandable to 4)	
Detector module	TX-DM-01M	
Weight	approx. 7.05 oz (0.20 kg) per detector module	
Sensitivity range	0.0005 ... 6.575% obs/ft 0.0015 ... 20% obs/m	
Sensitivity range main alarm	0.005 ... 6.575% obs/ft 0.015 ... 20% obs/m	

Approvals

UL 268, 8th edition. Additional approvals and certifications available upon request or at www.wagnergroup.com

Add-on modules

Relay module, type TX-RLM

¹ in preparation