

Fire detection and evacuation solutions that save lives.

Titanus Micro•Sens®

- ✓ Compact and cost-effective air sampling smoke detection system.
- ✓ Robust and efficient high-powered light source (HPLS) detection technology.
- ✓ 'Logic•Sens' fire pattern recognition technology.
- ✓ Freezer version operates in -40°C to +60°C with no heater boxes required.
- ✓ Optional individual room detection of the source of the fire with 'Room Ident'.
- ✓ 1 to 2 alarm thresholds.
- ✓ Optional smoke level display in bar graph form.
- ✓ A BlowFree system for programmed or automated on-demand pipe cleaning.
- ✓ Optional with redundant fan.
- ✓ Available without a fan as a detector box.
- ✓ A powerful and efficient aspirator allowing up to 50m of pipework with up to 8 aspiration apertures.
- ✓ Time saving installation and commissioning via plug-and-play setup.
- ✓ Large capacity 3-stage filters with selectable 1-15 micron ratings.
- ✓ A large range of fittings, pipework and sampling points.
- ✓ Noise silencer available.

Product Overview

Titanus Micro•Sens® air sampling smoke detection system was developed as a cost-effective solution for monitoring small to medium-sized spaces and equipment.

With the optional 'Room Ident', this device makes use of patented technology that enables it to monitor up to 5 rooms or facilities and to identify the source of the alarm.

Titanus Micro•Sens® is available in a cold storage option, with a redundant fan, or as a detector box. The detector box option does not have its own fan and can be used in combination with Titanus® systems to localise the sampling hole where the smoke is entering.

Titanus Micro•Sens® air sampling smoke detection system can be used to replace up to 8 point-type smoke detectors. This requires up to 50m of pipe, regardless of whether Class A, B or C is required in accordance with AS 7240.20



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Applications

The compact Titanus Micro•Sens® is ideal for applications where large air sampling smoke detection systems would not be cost-effective or in situations that require individual room identification.

These include:

- Small to medium sized spaces up to 400m² (e.g. IT areas, server rooms)
- Equipment (E.g. switch cabinets, telecommunications equipment)
- Up to 5 adjacent rooms with localisation of the source of the fire (e.g. hotel rooms, prison cells)
- Standalone areas of application (e.g. wind farms, transformer stations)
- Cold Storage Facilities
- Archival Storage Areas
- Recycling areas
- Correctional Facilities

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Item Numbers

Units	
7010-6001/6002	Micro•Sens® 0.5%/0.1%
7010-6011/6012	Micro•Sens® 0.5%/0.1% Bar Graph
7010-6100/6101	Micro•Sens® 0.5%/0.1% Freezer
7010-6110/6111	Micro•Sens® 0.5%/0.1% Freezer & Bar Graph
7010-6301/6302	Micro•Sens® 0.5%/0.1% Room Ident
7010-6311/6312	Micro•Sens® 0.5%/0.1% Bar Graph & Room Ident
7010-6700	Micro•Sens® Backbox with I/O Device
7010-6701	Micro•Sens® Backbox
AD-05-1500	Detector Box 0.1%
AD-05-1510	Detector Box 0.1% Bar Graph
AD-05-1520	Detector Box 0.5%
AD-05-1530	Detector Box 0.5% Bar Graph
AD-05-4040/4340	Micro•Sens® 0.1%/0.5% Redundant Fan
AD-05-4050/4350	Micro•Sens® 0.1%/0.5% Bar Graph/Redund. Fan
AD-10-0005	ASD Sound Absorber

Large Capacity External Filters

7010-0131	Wagner Filter Box LF-AD	15 Micron
AD-10-0330	Wagner Filter Element LF-AD-E	15 Micron
7010-0132	Wagner Filter Box LF-AD-1	10 Micron
AD-10-0335	Wagner Filter Element LF-AD-ES	10 Micron
7010-0133	Wagner Filter Box LF-AD-2	5 Micron
AD-10-0332	Wagner Filter Element LF-AD-E2	5 Micron
AD-10-2010	*Wagner Filter Pipe SF-400 Short	1 Micron Short
AD-10-1930	*Wagner Filter Element SF-400	1 Micron Short
AD-10-2000	*Wagner Filter Pipe SF-650 Long	1 Micron Long
AD-10-1920	*Wagner Filter Element SF-650	1 Micron Long

*Allows full flow right up until 100% capacity. Special Order only.

Tools

AD-05-0563	Wagner USB Diagnostics Tool - Diag 3/A - via infrared connection
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PSU's

	4510-2110	4510-2210	4510-2310
	BX1 ABS	BX10 Metal	BX10 Metal Deep
1 x Micro•Sens® @ 6.9V	7A/H	7A/H	7A/H
1 x Micro•Sens® @ 9.0V	-	-	12A/H
2 x Micro•Sens® @ 6.9V	-	-	12A/H

Specifications

Detector Unit	Micro•Sens®
Number of Sensor Modules Fitted	1
Max. Number of Sampling Holes	8
Max. Total Pipe Length Capable	50 m
Weight	850 to 895 g – depends on configuration
Current – Start Up Maximum	150 mA
Current - Quiescent (at 24 V DC)	105 mA
Current - Alarm (at 24 V DC)	110-140 mA (9 V ventilator voltage)
Operating Voltage	24 V DC (14 - 30 V DC)
Tapered Pipe Connectors	2 x 25mm
Detector Dimensions	W 144 x H 222 x D 70 mm
Housing Colour	RAL 9018, Papyrus White
Cabinet Type, Rating	ABS Plastics, IP20 (IP54 with air return)
Temperature - Standard Version	-20 °C to + 60 °C
Temperature - Freezer Version	-40 °C to + 60 °C
Humidity (Permanent)	10-95% Rel. Non-Condensing
Cable Entries	8 x M20, 2 x M25
Sensor Head Sensitivities:	0.5% and 0.1%
Interface Types	Relays
Alarms	2 Adjustable Alarm Threshold
Fault Signals	Air Flow Low Air Flow High Processor/Hardware Fail Ventilator Fail/Air Stabilising
Clamped Connections	Max. 1.0 mm²
Front Panel Control & Indications	Operational: Green Fire alarm: Red Action alarm: Red (optional) Fault: Yellow Smoke Level: 10 x Yellow bar graph (optional) Alarm location: 5 x Red (optional)
Noise Level	Standard & Freezer - 40 dB(A). Reduction by 10dB(A) possible by using the noise suppressor (AD-10-0005)
Event Log	Inbuilt, access thru Diag Tool
Redundant Fan	Optional