

TITANUS MICRO•SENS

Features

- Compact and cost-effective air sampling smoke detection system
- Robust & Efficient High Powered Light Source (HPLS) Detection Technology
- LOGIC•SENS Fire Pattern Recognition Technology
- Freezer Version Operates in -40Deg to +60DegC 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 & Efficient Aspirator Allowing up to 50m of Pipework with up to 8 aspiration apertures
- Time Saving Installation & Commissioning Via Plug & 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

Description

- 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 AS7240.20



Figure 1: TITANUS MICRO•SENS®

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

TITANUS MICRO·SENS

Item Numbers

Units			
7010-6001/6002	MicroSens 0.5% / 0.1%		
7010-6011/6012	MicroSens 0.5% / 0.1% Bar Graph		
7010-6100/6101	MicroSens 0.5% / 0.1% Freezer		
7010-6110/6111	MicroSens 0.5% / 0.1% Freezer and Bar Graph		
7010-6301/6302	MicroSens 0.5% / 0.1% Room Ident		
7010-6311/6312	MicroSens 0.5% / 0.1% Bar Graph and Room Ident		
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	MicroSens 0.1% / 0.5% Redundant Fan		
AD-05-4050/4350	MicroSens 0.1% / 0.5% Bar Graph / Redundant 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		
PSU's			
	4510-2110 BX1 ABS	4510-2210 BX10 Metal	4510-2310 BX10 Metal Deep
1 x MicroSens @ 6.9V	7A/H	7A/H	7A/H
1 x MicroSens @ 9.0V	-	-	12A/H
2 x MicroSens @ 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	50m
Weight	850 to 895g – depends on configuration
Current – Start Up Maximum:	150mA
Current - Quiescent (at 24 VDC)	105mA
Current - Alarm (at 24 VDC)	110-140mA (9V ventilator voltage)
Operating Voltage:	24 VDC (14 - 30 VDC)
Tapered Pipe Connectors:	2 x 25mm
Detector Dimensions (W x H x D)	144 x 222 x 70mm
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 mm ²
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