



Micra 100



- § Small, low cost aspirating smoke detector for easy and discreet installation
- § High sensitivity provided by laser-based forward light scatter for reliable early warning
- § Two sampling pipes (100m aggregate) for flexibility
- § Unique ClassiFire™ Perceptive Artificial Intelligence system that dynamically adjusts the detector's operating parameters, allowing for day-to-day changes in the protected environment and system contamination
- § Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D³ Laser Dust Discrimination and elimination system
- § RS485 communications built-in as standard for networking and remote communications.

Stratos-Micra 100 is designed to provide very high sensitivity smoke detection in a small package.

ClassiFire Perceptive Artificial Intelligence ensures that the detector operates at optimum sensitivity for the protected environment, without the need for complex setup. This means the product will configure itself to provide high sensitivity in a computer room or reduced sensitivity in a smoky area.

The detector is designed to fit into a docking station. All sampling pipes and cables are connected to the docking station as a first fix operation, leaving the detector to be fitted during the final commissioning phase if required. This ensures that detectors are less likely to be damaged during the installation. Upgradable volt-free Fire and Fault relay outputs are available for remote monitoring by local fire detection or BMS systems.

Applications and Acceptance

Stratos detectors have been successfully applied in tens of thousands of applications worldwide, ranging from clean rooms to casinos.

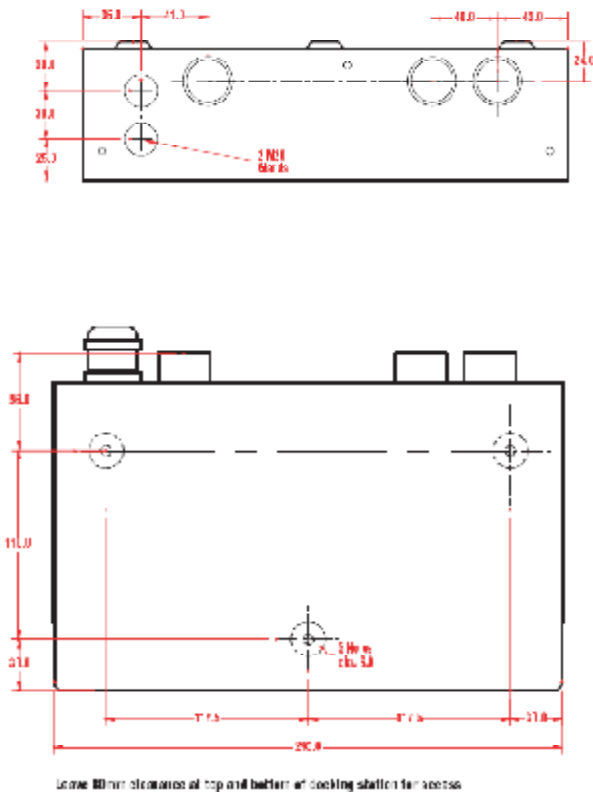
Options Available

- APIC™ Addressable Protocol Interface Cards available for most popular industry signalling protocols
- Command Module available for central monitoring and display
- SenseNet compatible - up to 127 detectors per loop
- Remote display units available
- Suitable for Stratos-MatrixScan, a patented software system which provides virtual addressable location detection, eg 10 physical detectors would provide up to 45 unique addressable locations.

High Sensitivity Aspirating Smoke Detector - Datasheet

Approved/listed by most major international fire protection certification agencies (contact us for latest details).

Dimensions of piped exhaust docking station



Specification Stratos-Micra 100

SUPPLY VOLTAGE:	21.6V - 26.4V DC
CURRENT CONSUMPTION:	400mA @ 24V DC
SIZE:	300W x 220H x 85D
WEIGHT:	3.8kg
OPERATING TEMPERATURE RANGE:	-10 to +38 C (UL268) -10 to +60 C (CEA4022)
OPERATING HUMIDITY RANGE:	0-90% non-condensing
MEASUREMENT RANGE (%Obs/m):	0.0015% to 25%
MAXIMUM DISPLAY RESOLUTION	0.0015% obscuration per metre
DETECTION PRINCIPLE:	Laser light scattering mass detection and particle evaluation
PARTICLE SENSITIVITY RANGE:	0.003µ to 10µ
DUST DISCRIMINATION PRINCIPLE:	3D ³ Laser Dust Discrimination (LDD)
RECOMMENDED MAX SAMPLING	100m total still air
PIPE LENGTH:	50m total moving air
SAMPLING PIPE DIAMETER:	¾" nominal bore (27mm O/D)
RECOMMENDED NO SAMPLING HOLES:	25 per pipe
ALARM LEVELS:	4 (Aux, Pre-alarm, Fire 1 and Fire 2)
LASER CHAMBER SERVICE INTERVALS:	Greater than 10 years (dependent on environment)
LASER LIFETIME (MTTF):	Greater than 1000 years
PROGRAMMING:	Command Module or PC via RS232/RS485
NETWORK DATA BUS:	RS485
MAXIMUM TOTAL DATA BUS LENGTH	1.2km
IP RATING:	IP50
SAMPLING PIPE INLETS:	2
EXHAUST AIR PIPE OUTLETS:	1 on optional Piped Exhaust docking station.

APPLICATIONS:

- 4 Data storage units
- 4 Prison cells
- 4 Plant rooms
- 4 Air conditioning units
- 4 Equipment racks
- 4 Computer rooms
- 4 Air duct protection
- 4 Heritage property protection
- 4 Critical equipment
- 4 Anti-smoking enforcement
- 4 Motor rooms

Order Details

09-AS-903-100	Stratos-Micra 100 Detector Module
09-AS-913	Docking Station (standard exhaust)
09-AS-914	Docking Station (piped exhaust)
09-AS-915	Relay input PCB
09-AS-912	Replacement filter
09-AS-909	Setup and Servicing software (free of charge)
09-AS-908	Serial PC Lead
09-AS-910	PS25 Power Supply

For the full range of products and part numbers please contact us

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