

Stratos[®] Micra[®] 100

LOCALIZED ASPIRATING SMOKE DETECTOR



Key Features

- Aspirating Smoke Detector in a small package provides an affordable solution to small to mid-size applications.
- High sensitivity provided by laser based forward light scatter mass detection with particle evaluation for reliable very early warning.
- Two sampling pipes, 164ft in length each, up to 328ft (50m) (aggregate) total detector.
- 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 filter loading.
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D³ Laser Dust Discrimination and elimination system.
- RS485 and RS232 communications built in as standard for networking, and remote communications.
- Rugged steel enclosure, suitable for industrial environments.

Description

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

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 areas with a high ambient background.

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.

Equipped with 'Fault' and 'Fire' relays on-board. Can be ordered with optional Input Relay Card which provides four levels of alarm, fault and three programmable inputs. Relay outputs provide a convenient method for remote monitoring by local fire alarm panels or Building Management Systems. Open Protocol available for 3rd party integration.

Applications & Acceptance

Stratos detectors have been successfully applied in tens of thousands of applications worldwide, ranging from Clean Rooms to Casinos.

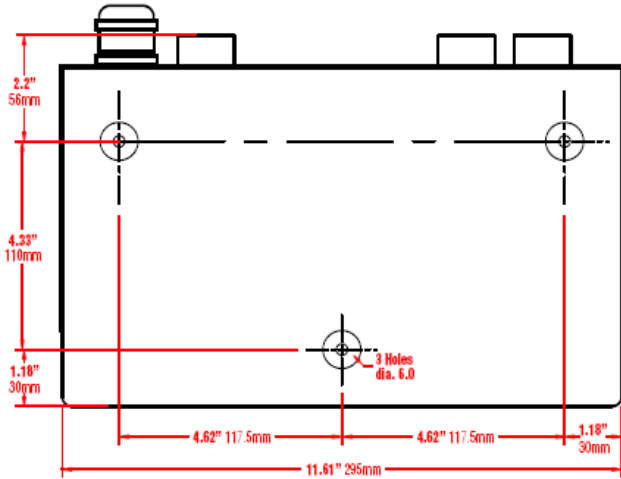
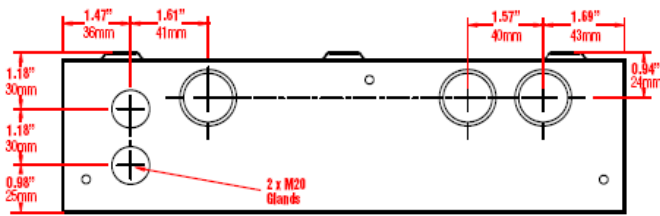
Options Available

- Addressable Protocol Interface Cards APIC[™] available for most popular industry signaling 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 - e.g. 10 physical detectors would provide up to 45 unique addressable locations.

Approvals

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

Docking Station Dimensions



Leave 3.14" (80mm) clearance at top and bottom of docking station for access

SPECIFICATIONS Stratos-Micra 100

Supply Voltage	21.6 – 26.4V DC
Current Consumption	400mA @ 24V DC
Size	11.81w x 8.66h x 3.35d (inch) 330w x 220h x 85d (mm)
Weight	8.38b (3.8kg)
Operating Temperature Range	14 to 100.4° F (-10 to 38 ° C) (UL268)
Operating Humidity Range	0 - 90% non-condensing
Measurement Range	0.00046% to 7.62% obs/ft (0.0015% to 25% obs/m)
Maximum Display Resolution	0.00046% obs/ft (0.0015% obs/m)
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. Pipe Length	164ft per inlet, 328ft aggregate
Sampling Pipe Diameter	¾" (19mm) Nominal bore, 1" (27mm) OD
Recommended maximum number of sampling ports	25 per inlet, 50 total aggregate entire detector
Alarm Levels	4 (Aux, Pre-Alarm, Fire 1 and Fire 2)
Laser Lifetime (MTTF)	Greater than 1000 years
Programming	Command Module or PC via RS232/RS485
Network Data Bus	RS-485
Maximum total Data Bus Length	4000ft (1200m)
IP Rating	IP50
Sampling Pipe Inlets	2 (Docking Station)
Exhaust Air Pipe Outlets	1 (Docking Station)

ORDERING INFORMATION

Part No.	Description
30740	Stratos-Micra 100 Detector Module
30672	Stratos-Micra 100 with Docking Station
30764	Stratos-Micra 100 with Docking Station and Relay Input Card
30436	Relay Input Card
30755	Replacement Filter Cartridge
30420	Setup and Servicing Software (free of charge)
30419	Null Model RS232 Serial Cable (pc interface)
30902US	24VDC 2.5 amp Regulated Power Supply

APPLICATIONS

- **Data Storage Cabinets**
- **Semiconductor Tools**
- **Prison Cells**
- **Mechanical Rooms**
- **Air Conditioning Units**
- **Equipment Racks**
- **Computer Rooms**
- **Flight Simulators**
- **Atria**
- **Duct Applications**
- **Heritage Buildings**
- **Critical Equipment**
- **Elevator Shafts**
- **Motor Control Rooms**
- **MRI**
- **Tape Vaults**
- **Record Storage**
- **Cable Vaults**

