Stratos Micra 100
Aspirating Smoke Detector

- 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

- EN54 Part 20 approved

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.

Volt-free contacts ensure compatibility with any fire alarm system.

TYPICAL APPLICATIONS

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

OPTIONS

- 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
- Relay Input Card – provides additional volt-free contacts plus 3 monitored inputs

APPROVALS

Approved/listed by most major international fire protection certification agencies.

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SPECIFICATION

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
Sensitivity range	0.03% to 25% obs/m
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003µm to 10µm
Dust discrimination principle	3D³ Laser Dust Discrimination (LDD)
Recommended max. sampling pipe length	100m total still air 50m total moving air
Sampling pipe diameter	3/4" nominal bore (27mm O/D)
EN54 Part 20 Certified number of sampling holes	Class A – 20 holes Class B – 20 holes Class C – 20 holes
Alarm levels	4 (Aux, Pre-alarm, Fire 1 and Fire 2)
Display LEDs	Fire, Fault, OK
Integral relays	Fire, Fault For additional relays use 30436 Relay Input PCB
Laser chamber service intervals	Greater than 10 years (dependent on environment)
Programming	Command Module or PC via RS232/RS485
Network data bus	RS485
Maximum total data bus length	1.2 km
IP rating	IP50
Sampling pipe inlets	2
Exhaust air pipe outlets	1

ORDERING INFORMATION

Part No.	Description
30672	Stratos Micra 100
30764	Stratos Micra 100 c/w Relay Input Card
30740	Stratos Micra 100 Replacement Detector Module
30742	Stratos Micra 100 Replacement Docking Station
30436	Relay Input PCB
30755	Replacement Filter
30419	Serial PC Lead
30826	PS25 Power Supply

United Technologies

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Kidde AirSense