



Stratos[®] Aspirating High Sensitivity Smoke Detector



Features

- Technologically advanced Aspirating Smoke Detector provides coverage for up to 20,000 sq. ft.
- High sensitivity provided by laser based forward light scatter mass detection for reliable very early warning.
- Four sampling pipes, up to 820ft (250m) maximum total length (aggregate) and up to 100 sample ports.
- Unique ClassiFire[®] Perceptive Artificial Intelligence system that dynamically adjusts the detector's operating parameters, allowing for changes in the protected environment and filter loading.
- Unwanted alarms from dust are avoided using patented Dual Technology LDD-3D^{STM} Laser Dust Discrimination and elimination system.
- RS485 and RS232 communications built in as standard for networking, and remote communications.
- Available with rugged steel enclosure, suitable for industrial environments.

Description

Stratos has unmatched sensitivity potential, providing the very earliest warning of incipient fire with minimal rate of nuisance alarms.

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.

Equipped with four alarm relays (Auxiliary, Pre-Alarm, Fire 1 and Fire 2), fault relay and 3 pairs of remote control input terminals, the inputs may be configured for a number of functions. See technical documentation for full details. 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.

IP-50 rated enclosure provides superior protection of circuitry and provides easy access to internal termination points for wiring or servicing.

Options Available

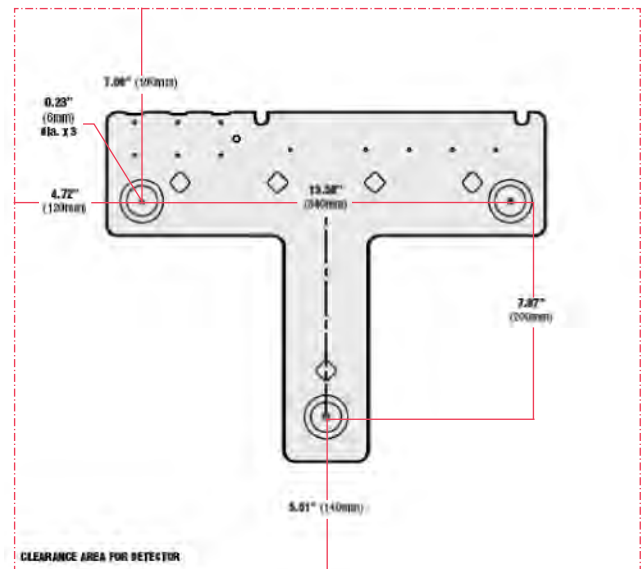
- Addressable Protocol Interface Cards APIC™ available for most popular industry signaling protocols.
- Command Module available for central monitoring and display (see Data Sheet DS9219).
- SenseNET™ compatible - up to 127 detectors per loop.
- Remote Display units available.
- A lower cost Minimum Display version is available which features a rugged steel enclosure (see Data Sheet DS9215).
- 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 including UL, cUL, FM, MEA, CSFM.

Specifications

Supply Voltage	21.6 - 26.4VDC
Current Consumption	450mA @ 24VDC
Size	16.81w x 14.65h x 3.74d (inch) 427w x 372h x 95d (mm)
Weight	11.5 lb. (5.2kg)
Operating Temperature Range	14° to 100°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 2.32% 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	330ft (100m) per inlet, 820ft (250m) aggregate (entire Detector)
Sampling Pipe Diameter	3/4" (19mm) Nominal bore, 1" (27mm) OD
Bargraph Segments	26
Recommended maximum number of sampling ports	25 per inlet, 100 total aggregate
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	4,000ft (1,200m)
Supported Languages on Internal Programmer	English, French, German, Spanish, Swedish
IP Rating	IP50 (similar to NEMA-12)
Sampling Pipe Inlets	4 on top, 4 at rear
Exhaust Air Pipe Outlets	1 on top, 1 at rear



Stratos Mounting Plate Dimensions

Ordering Information

Part No.	Description
30621	Stratos High Sensitivity Smoke Detector
30706	Rugged Steel Enclosure Version
30699	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
- Atriums
- Duct Applications
- Heritage Buildings
- Critical Equipment
- Elevator Shafts
- Motor Control Rooms
- MRI
- Tape Vaults
- Record Storage
- Cable Vaults