

# Stratos<sup>®</sup> HSSD<sup>®</sup>

HIGH SENSITIVITY ASPIRATING SMOKE DETECTOR

Minimum Display



## Key Features

- Affordably priced minimum display version of our standard Stratos-HSSD. Feature rich Aspirating Smoke Detector provides coverage for up to 20,000 sq. ft.
- On-board LED display provides indication of alarm, fault and normal operation.
- High sensitivity provided by laser based forward light scatter mass detection with particle evaluation for reliable very early warning.
- Four sampling pipes, up to 820ft (250m) maximum total length (aggregate) and up to 100 sample ports.
- Unique ClassiFire<sup>®</sup> 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 3D<sup>3</sup> 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.
- Full display version with integrated LCD programmer available.

## Description

Stratos-HSSD 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 3<sup>rd</sup> party integration.

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

## Applications & Acceptance

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

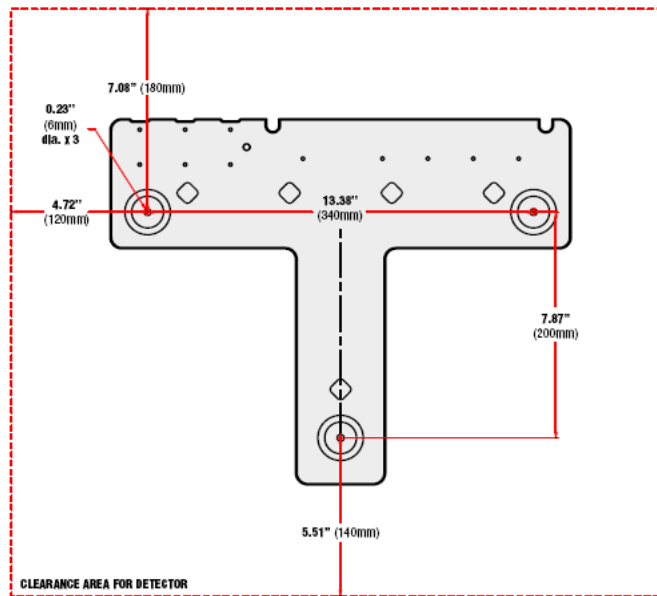
## Options Available

- Addressable Protocol Interface Cards APIC<sup>™</sup> 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.
- A lower cost Minimum Display version is available which features a robust rugged steel enclosure.
- 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. Contact AirSense Technology for other international listings.

## Stratos-HSSD Mounting Plate Dimensions



## SPECIFICATIONS Stratos-HSSD Minimum Display

Supply Voltage	21.6 – 26.4V DC	Recommended max. Pipe Length	330ft (100m) per inlet, 820ft (250m) aggregate (entire Detector)
Current Consumption	450mA @ 24V DC @ fan speed 8	Sampling Pipe Diameter	¾" (19mm) Nominal bore, 1" (27mm) OD
Size	16.81w x 14.65h x 3.74d (inch) 427w x 372h x 95d (mm)	Bargraph Segments	26
Weight	11.50b (5.2kg)	Recommended maximum number of sampling ports	25 per inlet, 100 total aggregate for entire detector
Operating Temperature Range	14 to 100.4°F (-10 to 38°C) (UL268)	Laser Lifetime (MTTF)	Greater than 1000 years
Operating Humidity Range	0 - 90% non-condensing	Programming	Command Module or PC via RS232/RS485
Measurement Range	0.00046% to 7.62% obs/ft (0.0015% to 25% obs/m)	Network Data Bus	RS485
Maximum Display Resolution	0.00046% obs/ft (0.0015% obs/m)	Maximum total Data Bus Length	4000ft (1200m)
Detection Principle	Laser light scattering mass detection and particle evaluation	Supported Languages on Internal Programmer	English, French, German, Spanish, Swedish
Particle Sensitivity Range	0.003μ to 10μ	IP Rating	IP50
Dust Discrimination Principle	3D <sup>3</sup> ™ Laser Dust Discrimination (LDD)	Sampling Pipe Inlets	4 on top, 4 at rear
Alarm Levels	4 (Aux, Pre-Alarm, Fire 1 and Fire 2)	Exhaust Air Pipe Outlets	1 on top, 1 at rear

## ORDERING INFORMATION

Part No.	Description
30710	Minimum Display Version
30706	Rugged Steel Enclosure Version
30621	Stratos-HSSD
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**
  - **Atria**
- **Duct Applications**
  - **Heritage Buildings**
  - **Critical Equipment**
  - **Elevator Shafts**
  - **Motor Control Rooms**
  - **MRI**
  - **Tape Vaults**
  - **Record Storage**
  - **Cable Vaults**



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