



Stratos-HSSD



- High Sensitivity provided by laser based forward light scatter for reliable early warning
- 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
- LPCB approved for up to 100 sampling holes

Stratos-HSSD has unmatched sensitivity potential, providing the very earliest warning of incipient fire with minimum 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 detector will configure itself to provide high sensitivity in a computer room or reduced sensitivity in a smoky area.

Volt-free Fire and Fault relay outputs are available for remote monitoring by local fire detection or BMS systems. Each detector is provided with 3 pairs of remote control input terminals. The inputs may be configured for number of functions, see technical documentation for full details.

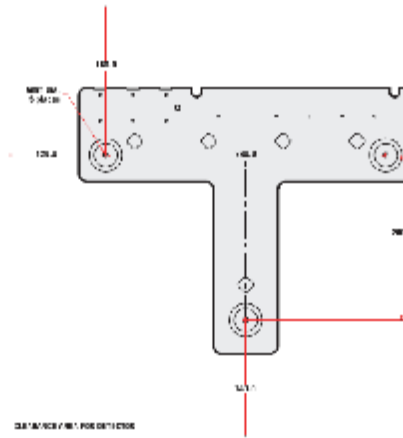
Stratos detectors have been successfully applied in tens of thousands of applications worldwide, ranging from clean rooms to casinos.

Options Available

- 4 APIC™ Addressable Protocol Interface Cards available for most industry signalling protocols.
- 4 Command Module available for central monitoring and display.
- 4 SenseNet computerised remote monitoring compatible - up to 127 detectors per loop.
- 4 Remote Display units available
- 4 A lower cost Minimum Display option is available
- 4 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

Dimensions Stratos-HSSD
Mounting plate



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

Specification Stratos-HSSD

SUPPLY VOLTAGE:	21.6V - 26.4V DC
CURRENT CONSUMPTION:	450Ma @ 24V DC at fan speed 8
SIZE:	427W x 372H x 95D
WEIGHT:	5.2kg
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:	3D3 Laser Dust Discrimination (LDD)
RECOMMENDED MAX SINGLE SAMPLING PIPE LENGTH:	100M
SAMPLING PIPE DIAMETER:	¾" nominal bore (27mm O/D)
TOTAL SAMPLING PIPE MAXIMUM:	250m @ 80 sampling holes -200m @ 100 sampling holes
ALARM LEVELS:	4 (Aux, Pre-alarm, Fire 1 and Fire 2)
BARGRAPH SEGMENTS:	26
LASER CHAMBER SERVICE INTERVALS:	Greater than 10 years (dependent on environment)
LASER LIFETIME (MTTF):	Greater than 100 years
PROGRAMMING:	Front panel, Command Module or PC via RS232/RS485
NETWORK DATA BUS:	RS485
MAXIMUM DATA BUS LENGTH BETWEEN DETECTORS:	1.2 km
IP RATING:	IP50
SUPPORTED LANGUAGES ON INTEGRAL PROGRAMMER:	English, French, German, Spanish, Swedish
SAMPLING PIPE INLETS:	4 on top, 4 at rear
EXHAUST AIR PIPE OUTLETS:	1 on top, 1 at rear

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-901HS	Stratos HSSD
09-AS-905	Rugged Steel Case option
09-AS-906	Replacement Dust Separator
09-AS-907	Setup and Servicing Software (free of charge)
09-AS-908	Serial PC Lead
09-AS-904MN	Minimum Display Detector
09-AS-910	PS25 Power Supply

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

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