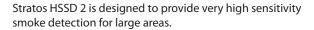
## Stratos HSSD 2

## Aspirating Smoke Detector

- Large area aspirating smoke detector, up to 2000m<sup>2</sup> coverage
- High sensitivity provided by laser based forward light scatter for reliable early warning
- EN54 Part 20 approved
- 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 3D<sup>3</sup> Laser Dust Discrimination and elimination system
- 4 sampling pipes, up to 200m maximum total length
- RS485 communications built in as standard for networking and remote communications



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 contacts ensure compatibility with any fire alarm system. Each detector is provided with 3 monitored inputs. The inputs may be configured for a number of functions, see technical documentation for full details.

## **APPLICATIONS**

Stratos detectors have been successfully applied in tens of thousands of applications worldwide, including:

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<sup>™</sup> Addressable Protocol Interface Cards available for most industry signalling protocols
- Command Module available for central monitoring and display
- SenseNet computerised remote monitoring compatible up to 127 detectors per loop
- Remote Display units available
- A lower cost Minimum Display option is 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
- Steel enclosure variant for more industrial applications

## APPROVALS

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



# Stratos HSSD 2

# Aspirating Smoke Detector

### **SPECIFICATION**

Supply Voltage	21.6V – 26.4V DC
Current consumption	450mA @ 24V DC at fan speed 8
Size	427W x 372H x 115D
Weight	
	5.2kg -10 to +38°C (UL268)
Operating temperature range	-10 to + 60°C (CEA4022)
Operating humidity range	0 – 90% non-condensing
Sensitivity range	0.03% to 25% obs/m
Maximum display resolution	0.0015% obscuration per metre
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	200m
Sampling pipe diameter	3/4" nominal bore (27mm O/D)
EN54 Part 20 Certified number of sampling holes	Class A – 20 holes Class B – 40 holes Class C – 100 holes
Alarm levels	4 (Aux, Pre-alarm, Fire 1 and Fire 2)
Integral relays	Aux, Pre-Alarm, Fire 1 and Fire 2
Bargraph segments	26
Laser chamber service intervals	Greater than 10 years (dependent on environment)
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	English, French, German, Spanish
integral programmer	Swedish
Sampling pipe inlets	4 on top, 4 at rear, max 4 used at any time
Exhaust air pipe outlets	1 on top, 1 at rear, , max 1 used at
	any time

#### ORDERING INFORMATION

Part No.	Description
30621	Stratos HSSD 2
30620	Stratos HSSD 2 with Command Module
30706	Stratos HSSD 2 – Steel Enclosure
30707	Stratos HSSD 2 with Command Module – Steel Enclosure
30710	Stratos HSSD 2 Minimum Display
30699	Replacement Dust Separator
30419	Serial PC Lead
30826	PS25 Power Supply



