

...the ultimate in high sensitivity aspirating smoke detection

AirSense crosses a new horizon with its award winning Stratos-HSSD° Series-2 High Sensitivity **Smoke Detection** system.

duce the Stratos-HSSD series 2 a high rate of nuisance alarms. highest levels of sensitivity in system. Stratos-HSSD® embod- Stratos-HSSD is the only optical environments such as computer ies many unique features to high sensitivity system which areas and clean rooms. In these maximise performance and is routinely applied to the applications it is able to give increase reliability compared protection of very dirty and warning to the very slightest The team behind the Stratos- to other aspirating detection dusty environments. This is trace of smoke. Stratos-HSSD is HSSD system has almost 200 systems. Stratos-HSSD is recog- achieved by combining Laser fully capable of reacting to man-years experience in the field nised as being the easily the Dust Discrimination (LDD™) true INCIPIENT fire situations, of air sampling High Sensitivity most sensitive system available, with a patented dust manage- thereby preventing damage. Smoke Detection systems. This but coupled to the unique ment and separation system. At Stratos-HSSD provides the

| has been drawn upon to pro- | (AI) process, this need not mean | is capable of providing the very unparalleled depth of experience | Classifire * Artificial Intelligence | the other extreme, Stratos-HSSD | EARLIEST warning.



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Stratos-HSSD-2 has been designed to compliment architecture of the new millennium with low-profile and uncluttered lines

Classifire° - Artificial Intelligence

Real time viewing



Monitor your protected environment from anywhere in the world

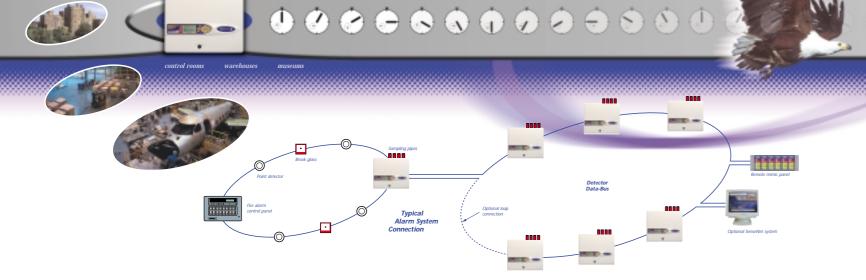
Classifire* - Keeping you up to-date

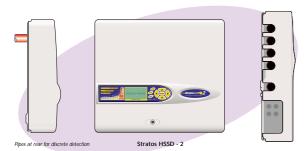
ClassiFire® is a unique patented 'Artificial Intelligence' (AI) system which enables Stratos detectors to condition themselves to suit the environment in which they are installed. Until the advent of ClassiFire, the setting of high sensitivity smoke detection systems was at best a hit or miss procedure, based largely upon the installers estimation of 'normal' smoke density. Classifire has revolutionised the setting of High Sensitivity Systems, taking guesswork out of the equation and simplifying system set-up. Classifire uses a dedicated microprocessor to continually manipulate data and adjust the sensitivity of the system for a simply defined level of performance. Classifire discriminates between 'dirty' and 'clean' operating periods such as day and night, automatically substituting appropriate system sensitivity without the need for external input or adjustment. The system literally 'thinks' for itself, even to the degree that the system will not be fooled by clock changes or prolonged holiday shut-down periods. Classifire ensures that Stratos-HSSD operates at maximum safe sensitivity to give warning of problems earlier than previously considered possible. Classifire is the most comprehensive intelligence found in any smoke detection system to-date... so sophisticated, that its invention was considered significant enough to allow

AirSense Technology to be the first and only fire detection company to win the coveted Queen's Award for Technological Achievement.



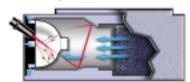
'A first for the Fire Detection Industry.'The Queen's Award is the highest accolade that can be bestowed on a UK business for technological achievement.





SPECIFICATION 21.6V - 26.4V DC Supply Voltage 427W x 372H x 95D Weight 5.2ka Operating temperature range -10 to +60oC Operating humidity range 0 - 90% Non Condensing Sensitivity range (%Obs/m) Min = 25% Max = 0.03% FSD Maximum sensitivity resolution 0.015 %Obs/m Detection principle Laser light scattering mass detection and particle counting Particle sensitivity range 0.0003u to 10u Laser Dust Discrimination (LDD) Dust discrimination principle Current consumption 400mA @ 24V DC 200 metres total Maximum sampling pipe length Sampling pipe inlets 4 on top and 4 at rear Sampling pipe internal diameter 15-25mm 4 (Fire 2. Fire 1. PreAlarm and Aux) Alarm levels Bargraph sensitivity range 0.0015 - 25% obs/m Bargraph segments Chamber service intervals greater than 8 years (depending on environment) Dust separator replacement intervals greater than 5 years (depending on environment) Laser lifetime (MTTF) greater than 1000 years Programming Front panel or PC via RS232/RS485 RS485 data cable Data bus cable 1,200m IN 1,200m OUT Data bus length IP rating Supported languages on internal programmer Czech, Dutch, English, Estonian, Finnish, French,

Unique Laser Detection



air sample will scatter a cone of humidity. The signal from the environments.

the Stratos-HSSD-2 system is a there it is focussed onto a single by the unique ClassiFire® Artificial patented 'laser forward scatter' photo-receiver. This system has Intelligence system. The system system. A powerful semiconductor several advantages, including; uses a patented 'wastegate' laser is directed through an inherent immunity to dust/dirt system which bypasses the aperture in a specially designed build-up, high signal to noise level majority of sampled air, reflector. Any combustion and resistance to problems maximising service life and products present in the moving caused by vibration and high permitting operation in diverse

The detection principle used in light onto the reflector and from detection transducer is processed

German, Hungarian, Italian, Norwegian, Spanish, Swedish



Sucios-lisso

The Queen's Awards are the highest accolades that can be bestowed on a UK business. Recognised as the gold standard of corporate achievement, and awarded only to those with a proven record of excellence. It is the award that every business wants to win.

1999 saw the first ever Queen's Award for Technological Achievement with a fire detection product. That product was the Stratos-HSSD® aspirating smoke detection system.

Over 12,000 applications worldwide...

Canada USA Russia China Malaysia Netherlands Norway Iceland **Finland** South Africa Australia

New Zealand Argentina Chile Mexico Namibia India Spain France Portugal Italy Greece

UAE German Austria Dubai Hungary Jordan Switzerland Papua New Guinea Romania Vietnam Denmark Thailand Turkey Laos Egypt Korea Pakistan Myanmar







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In line with continuous product we reserve the right to modify or update specifications without notice. Stratos-HSSD-2, SenseNet, AirSense, ClassiFire and FastLearn are trade marks. HSSD is a Registered trademark.