

Stratos-Micra heralds a new era in incipient fire detection...

Since the late 1970s it has been ClassiFire®

possible to provide incipient fire detection in an ever-more diverse Technology detection products, range of applications. Generally Stratos-Micra employs our sophisspeaking, this has provided a ticated and Queen's Award winvalue equipment.

high degree of protection for the entire area, but with very little ClassiFire. This system controls all ability to pinpoint incident aspects of the detector sensitivity location. For the first time it now setting and automatic day/night becomes a realistic proposition to switching. ClassiFire not only apply dedicated detection for makes commissioning supremely areas which may have been simple and effective, it also allows borderline decisions for Incipient the system to 'condition' itself to Detection technology in the past, suit the environment in which it is or for small rooms and critical applied on a day-by-day basis, providing unwavering protection.

In common with all AirSense

Stratos-Micra compliments both conventional detectors and other At a diminutive 135 x 175 x aspirating detectors such as the

80mm @ 1Kg, Stratos-Micra is by Stratos-HSSD system. far the smallest dedicated aspirating detector yet produced.

Stratos-Micra (and Stratos-HSSD) Dust discrimination are easily the most sensitive smoke Stratos-Micra employs dust detectors available. Furthermore, filtration and Laser Dust when such a detector is applied to Discrimination LDD™ as a stansmall volume enclosures or areas, dard feature. This makes the systhe effective sensitivity of the tem suitable for a wide range of system becomes proportionately environments, including; paper/ greater. The benefit is the very flour mills, generator areas, teleearliest warning possible in the coms areas, furnace rooms, comdetection area. puter environments etc.



Stratos-Micra & Stratos-HSSD 2 (Command Module)



Artificial Intelligence software as the acclaimed Stratos-HSSD 2 detector. When such a device is used for the protection of a relatively small volume, the reduction in smoke dilution results in previously undreamed of performance levels. Further more, because the Stratos-Micra is typically used to protect small volumes, the effect of external smoke sources is relatively low. Nuisance alarms are virtually eliminated, while performance is enhanced. True incipient fire detection is guaranteed. The Stratos-Micra provides in many instances a true fire PREVENTION system.

The smallest most discrete

aspirating system

The Stratos-Micra is equipped with a 'docking station' to facilitate simple installation. An optional 'piped exhaust' docking station is available where needed.

Docking station

Stratos-Micra (and Stratos-HSSD 2) provide for simple connection to a range of proprietary Alarm Panels by direct communication using the panel manufacturers protocol. The APIC (Addressable Protocol Interface Card) may be mounted directly in the detector for monitoring of individual detectors.

Using a Command Module equipped with the APIC uniquely allows up to 127 detectors to be connected directly to the host addressable panel with a single interface.

torage units	Air duct protection
cells	Heritage property protection
ooms	Critical equipment
nditioning units	Anti-smoking enforcement
nent racks	Motor rooms

Prison

Plant

Air co

Equit



ClassiFire-3D[°] - Artificial Intelligence

II ClassiFire effectively subtracts background smoke, making high sensitivity more usable than 'absolute scaled' detectors.

'smoky' and 'clean' operating periods such as day and coveted Queen's Award for Technological Achievement.

ClassiFire-3D* is a unique patented 'Artificial Intelligence' night, automatically substituting appropriate system (AI) system which enables Stratos detectors to condition sensitivity without the need for external input or themselves to suit the environment in which they are adjustment. The system literally 'thinks' for itself, even to installed. Unlit the advent of Classifier, the setting of high the department. The system metany times on even, even of installed. Unlit the advent of Classifier, the setting of high the depare that the system will not be fooled by clock sensitivity smoke detection systems was at best a hit or miss changes or prolonged hollday shut-down periods. procedure, based largely upon the installers estimation of Classifier ensures that Stratos-HSSD operates at maximum 'normal' smoke density. ClassiFire has revolutionised the safe sensitivity to give warning of problems earlier than normal smoke density classifier has revolutionised the sale sensitivity to give Warning of problems earlier than setting of High Sensitivity Systems, taking guesswork out of previously considered possible. Classifire is the most the equation and simplifying system set-up. Classifire uses comprehensive intelligence found in any smoke detection a dedicated microprocessor to continually manipulate data system to-date... so sophisticated, that its invention was and adjust the sensitivity of the system for a simply defined considered significant enough to allow MiSense Technology level of performance. ClassiFire discriminates between to be the first and only fire detection company to win the



Smoky environment





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.

1999 saw the first ever Queen's Award for Technological Achievement with a fire detection company. That company was AirSense Technology, whose ClassiFire system has changed the face of fire detection.

3 I K A I U 3 - WI	CRA SFECTICATION
Supply Voltage	21.6V - 26.4V DC
Size	135W x 175H x 80D
Weight	1.01kg
Operating temperature range	-10 to +60°C
Operating humidity range	0 - 96% non-condensing
Sensitivity range (%Obs/m)	Min = 25% Max = 0.03% FSD
Maximum sensitivity resolution	0.003% obscuration per metre
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003µ to 10µ
Dust discrimination principle	Paired pulse amplitude
Current consumption	250mA @ 24V DC
Maximum sampling pipe length	50m
Sampling pipe internal diameter	7.5-22mm
Chamber service intervals	Greater than 8 years (dependant on environment)
Dust separator replacement intervals	Dependant on environment (typically 3 years)
Laser lifetime (MTTF)	greater than 1000 years
Programming	PC
Data bus cable	RS485 data cable
Maximum data bus length between isolators	1.2 Km



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