



## Description

Stratos-Quadra is designed to provide cost effective aspirating smoke detection with local area identification of individual sampling pipes in a robust 'one box' solution.

Each sampling pipe is provided with its own laser smoke detection chamber. The detector has a maximum of four sampling pipes but it is not necessary to populate all pipe channels with laser modules if they are not needed. This reduces costs on smaller projects.

ClassiFire® Perceptive Artificial Intelligence (PAI) ensures that the system operates on each sampling pipe/channel 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 small computer room or reduced sensitivity in a smoky area.

Volt-free relay outputs are provided for multiple alarm stages and fault for each sampling pipe.

## Key Features

- Identification of individual sampling pipes to provide localised area identification.
- Individual laser detectors for each sampling pipe eliminates sensitivity dilution associated with sequential scanning aspirating systems. A further advantage is no need for time delays associated with scanning aspirating systems.

- Maintenance intensive scanning valves eliminated for optimum reliability. All pipes are sampled at all times irrespective of alarm condition.
- Four sampling pipes/detectors (200m aggregate length) for design flexibility.
- Internal power supply and battery space.
- Integral display and programmer as standard.
- Optional 'PowerSave' mode automatically reduces the aspirator speed to minimum. This conserves power in the event of a mains/AC failure.

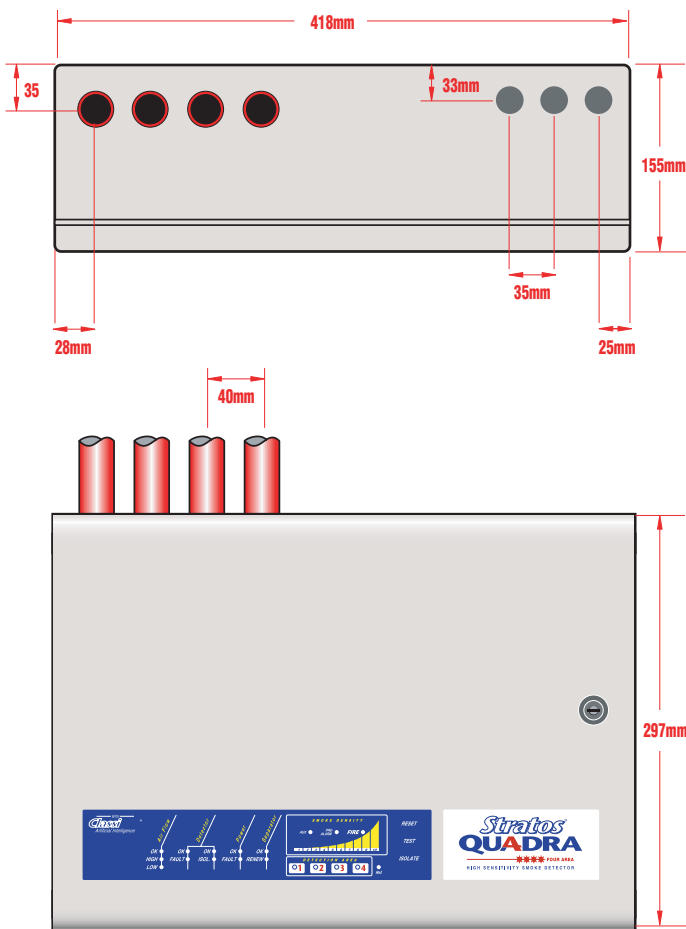
## Applications

Stratos-Quadra detectors have been applied for the protection of a wide range of industrial environments. This product is not recommended for use in dusty environments.

## Options Available

- Command Module available for central monitoring and display
- SenseNET compatible - up to 127 detector channels per loop (using digital output module)
- Remote Display units available

## Stratos-Quadra, pipe/cable dimensions



## SPECIFICATIONS Stratos-Quadra

Supply Voltage	190V - 265V AC
Current consumption	780mA @ 12V DC power save mode 1600mA @ 12V DC fan speed 10
Size	418W x 297H x 155D
Weight	11.5kg
Operating temperature range	-10 to + 60°C (CEA4022)
Operating humidity range	0 - 90% non-condensing
Measurement range (%Obs/m)	0.25% to 10%
Maximum display resolution	0.025% 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
Recommended max. sampling pipe length	200m total still air 100m max. single pipe
Sampling pipe diameter	3/4" nominal bore (27mm O/D)
Recommended max. no. sampling holes	25 per pipe
Alarm levels per pipe	3 (Aux, Pre-alarm)
Laser chamber service intervals	Greater than 5 years (dependent on environment)
Laser lifetime (MTTF)	Greater than 1000 years
Programming	Internal programmer or PC
Network data bus	RS485 (requires digital output module)
Maximum total data bus length	1.2 km
IP rating	IP50
Sampling pipe inlets	4
Exhaust air pipe outlets	1 (optional piped exhaust socket)

## ORDERING INFORMATION

Part No.	Description
30120	Stratos-Quadra 1 Single Detector Unit
30121	Stratos-Quadra 2 Two Detector Unit
30122	Stratos-Quadra 3 Three Detector Unit
30110	Stratos-Quadra 4 Four Detector Unit
30095	Replacement Filter
30220	Setup and Servicing Software (free of charge)
30419	Serial PC Lead
30819	NP12-12 (two required)
30801	Digital Output Module
30418	Exhaust Pipe Connector Socket

## APPLICATIONS

- Data storage units
- Museums
- Prison cells
- Heritage property protection
- Plant rooms
- Critical equipment
- Concealed void spaces
- Anti-smoking enforcement
- Equipment racks
- Motor rooms
- Computer equipment



**AirSense Technology Limited**  
 1 Caxton Place • Caxton Way • Stevenage • Herts • SG1 2UG • UK  
 Tel: +44(0)1438 751296 • Fax: +44(0)1438 729137  
 e-mail: sales@airsense.co.uk • www.airsensetechnology.com

**AirSense Technology Limited (Hong Kong)**  
 1801 Wing On Central Building • 26 Des Voeux Road Central • Central Hong Kong  
 Tel: (852) 2961 4206 • Fax: (852) 3007 4737  
 e-mail: kevin.hui@airsense.co.uk



Quality system cert. no. 404  
 Assessed to ISO 9001:2000