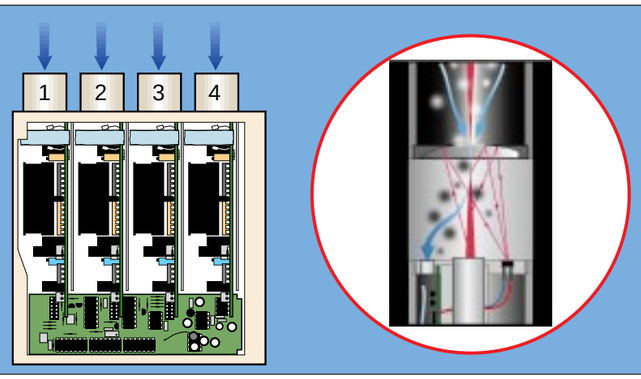
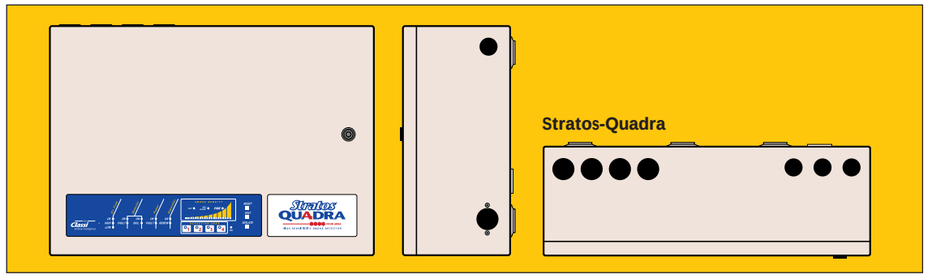
The detection sub-assembly in the Stratos-Quadra uses tried and proven technology. The laser system is miniaturised to fit into the sampling air path as shown in the illustration opposite.





SPECIFICATION

Mains supply voltage	190 - 265 V. AC. RMS.
Size (Stratos-Quadra)	418 x 297 x 155
Size (Reference)	418 x 297 x 150
Weight (Stratos-Quadra)	11.5 Kg.
Weight (Reference detector)	9.2 Kg.
Operating temperature range	-10 to +60° C
Operating humidity range	0 - 90% Non Condensing
Sensitivity range (Obsc./Metre)	Min. = 10% Max. = 0.25%
Sensitivity resolution (Obsc./Metre)	Max. = 0.025%
Detection Principle	Forward Laser Light Scattering Mass Detection
Particle sensitivity range	0.0003µ to 10µ
Dust Discrimination Principle	Paired Pulse Amplitude Type
Current Consumption	190mA. @ 230V. RMS. 850mA. @ 24V. DC. 1.3 A. @ 12V. DC.

Battery charge Voltage	13.6 V. @ 20° C.
Battery charge current	3.0 Amp. Maximum
Stand-by period	Min. = 0 Hrs. Max. = 72 Hrs.
Maximum sampling pipe length	200 Metres total.
Sampling pipe internal diameter	15 - 25 mm.
Chamber service intervals	> 3 Years
Dust separator service intervals	> 3 Years (depending on environment)
Theoretical laser life	> 1000 YEARS
Programming of unit	On-board programmer or PC.
Reference detector cable	4 core screened 1.5 mm^2
Reference cable Max. length	200 Metres
IP Ratings	Stratos-Quadra IP50 Reference Detector IP50

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Stratos QUADRA

Four Area Aspirating Smoke Detector

Applications Include:

Production areas

Control rooms

Warehouses

Historic buildings

Paper mills

Industrial areas

Dirty areas

Computer rooms

Telecom areas

Cold stores

Correctional institutions

Flight simulators

Power distribution areas

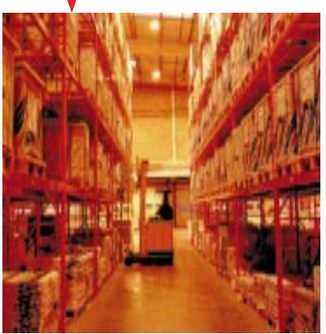
Archives

Atrium buildings

Museums

Places of worship

etc...



Stratos-Quadra® uses four high sensitivity micro laser detectors - one per pipe inlet - to provide the earliest possible identification of an incipient fire from four separate areas. It combines many features from the highly successful *Stratos*-HSSD® in a single detection package of unrivalled sophistication:-

Four individual high sensitivity detectors. No delay waiting for mechanical valves to scan inlet pipes and identify which area contains smoke.

Individual detectors give no pipe to pipe smoke dilution to give higher sensitivity.

The sensitivity range for each detector pipe can be individually adjusted.

Time delays for each detector pipe can be individually adjusted.

Full ClassiFire artificial intelligence will ensure all detectors operate at optimum sensitivity to eliminate unwanted alarms.

Full monitoring of dust separation system by 'ClassiFire' to maximise detector efficiency.

Incorporates Laser Dust Discrimination (LDD™) to eliminate potential problems caused by dust.

With the aid of a PC a full range of diagnostic and display menus are available. These include a historical event log and real-time displays.

Lowest whole-life costs. The system has a competitive initial price and a minimum maintenance requirement.

System design capability using PipeCAD™ computer modelling package.

Proven technology.

Stratos-Quadra detectors are provided with a serial port which allows connection to a PC which, among other facilities, may be used to display ClassiFire™ operating in 'real time' as shown.

Detection Address Loop

Break Glass

Analogue Addressable Panel

Detector