

Stratos Nano

Aspirating Smoke Detector

- Designed to bring the benefits of laser based Aspirating Smoke Detection to applications where cost would previously have limited installations to 'point detector in a fan box' type systems
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Laser smoke sensor chamber specially designed for aspirating detection avoids the airflow problems associated with 'point-in-a-box' type solutions
- Up to 50m of sampling pipe with 10 sampling holes
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D³ Laser Dust Discrimination and elimination system
- Easy commissioning without the need for a PC
- EN54 Part 20 approved

Stratos-Nano is designed to provide reliable aspirating smoke detection in a small, easy to install package.

The detector is supplied in a ABS enclosure. An internal DIL switch enables simple on-site programming without the need for a special programmer or laptop PC.

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 product will configure itself to provide high sensitivity in a small comms room or reduced sensitivity in a smoky area.

Volt free contacts ensure compatibility with any fire alarm system.

APPLICATIONS

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

Prison cells	Plant rooms
Wind generators	Equipment cabinets
Ceiling voids	Heritage property
Critical equipment	Anti-smoking enforcement
Motor rooms	Trains



OPTIONS

- Addressable Protocol Interface Cards APIC™ available for several industry standard signalling protocols
- Remote Display units available
- Communications card for networking and PC diagnostics

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SPECIFICATION

Supply voltage	21.6V – 26.4V DC
Current consumption	350mA @ 24V DC
Size	190W x 230H x 110 D
Weight	1.2 kg
Operating temperature range	-10 to +38°C (UL268) -10 to + 60°C (EN54 Part 20)
Operating humidity range	0 – 90% non-condensing
Sensitivity range	0.4% to 25% obs/m
Detection principle	Laser light scattering mass detection and particle evaluation
Particle size range	0.003µm to 10µm
Dust discrimination principle	3D ³ Laser Dust Discrimination (LDD)
Max. sampling pipe length	50m
Sampling pipe diameter	3/4" nominal bore (27mm O/D)
EN54 Part 20 certified	Class A – 2 holes
no. sampling holes	Class B – 4 holes Class C – 10 holes
Alarm levels	Fire, Pre-Alarm
Integral relays	Pre-Alarm, Fire, Fault
Display LEDs	Fire, Pre-Alarm, Fault, OK, Flow, Filter, Head
Laser chamber service intervals	Greater than 10 years (dependent on environment)
Programming	Via internal DIL switches
Up to 4 alarm levels available	via APIC, Cards, & SenseNet
Network data bus	RS485 (requires the additional 30720 communication card)
Input relay	To monitor power supply or engage ClassiFire Override
IP rating	IP50
Sampling pipe inlets	1
Exhaust air pipe outlets	1

ORDERING INFORMATION

Part No.	Description
30719	Stratos-Nano
30720	Communication Card
30721	Stratos-Nano Detector with Communication Card
30755	Replacement Filter
30240	Setup and Servicing Software
30419	Serial PC Lead
30826	PS25 Power Supply



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