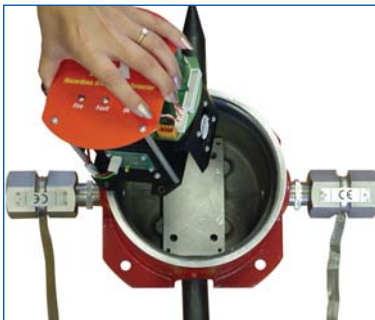
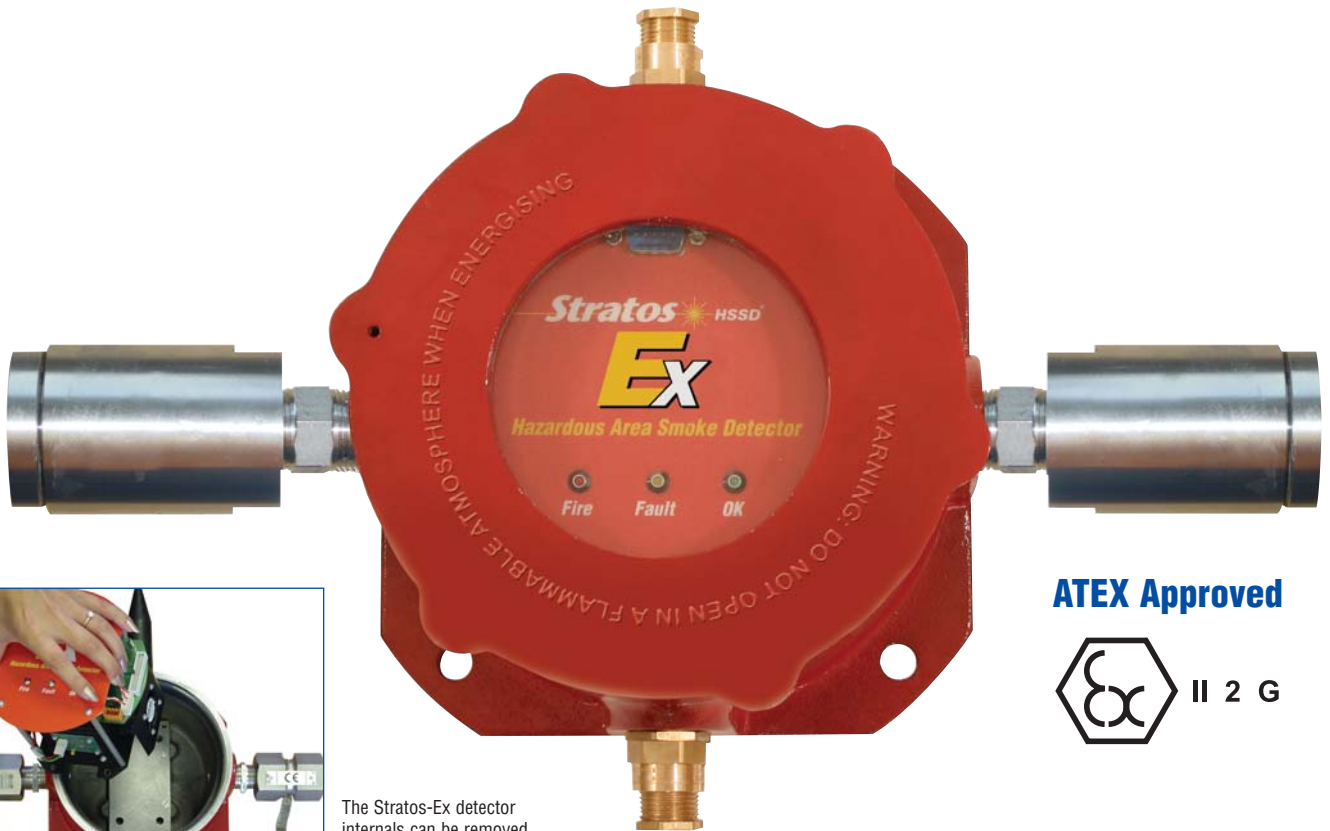


Stratos[®] Ex

HAZARDOUS AREA ASPIRATING SMOKE DETECTOR



The Stratos-Ex detector internals can be removed from its enclosure for ease of installation (while area is de-classified).

ATEX Approved



Key Features

- Lightweight design for easy one-man installation.
- Very high sensitivity provided by laser based forward light scatter for reliable incipient fire detection.
- External particles filter for ease of maintenance... no need to declassify area for routine maintenance.
- Unique ClassiFire[®] Perceptive Artificial Intelligence system dynamically adjusts the detector's operating parameters to allow for day-to-day changes in protected environment and dust filtration contamination. Consistent protection guaranteed.
- Unwanted alarms from dust are avoided using patented dual technology 3D[®] Laser Dust Discrimination and filtration system.
- RS485 communications built in as standard for networking and remote communications.

Description

Stratos-Ex is designed to provide reliable very high sensitivity smoke detection for hazardous areas in a small lightweight package.

ClassiFire Perceptive Artificial Intelligence ensures that the detector operates at optimum sensitivity for the protected environment without the need for complicated setup. This means the detector will configure itself to provide and maintain high sensitivity in a clean room or reduced sensitivity in a more smoky environment.

The detector is supplied in a cast aluminium enclosure. All sampling pipes and cables can be connected to the enclosure as a first fix operation, leaving the internals to be fitted during the final commissioning phase.

Upgradeable volt-free Fire and Fault relay outputs are available for remote monitoring by local fire detection or BMS systems.

Applications & Acceptance

Stratos detectors have been successfully applied in many different types of application in tens of thousands of sites worldwide.

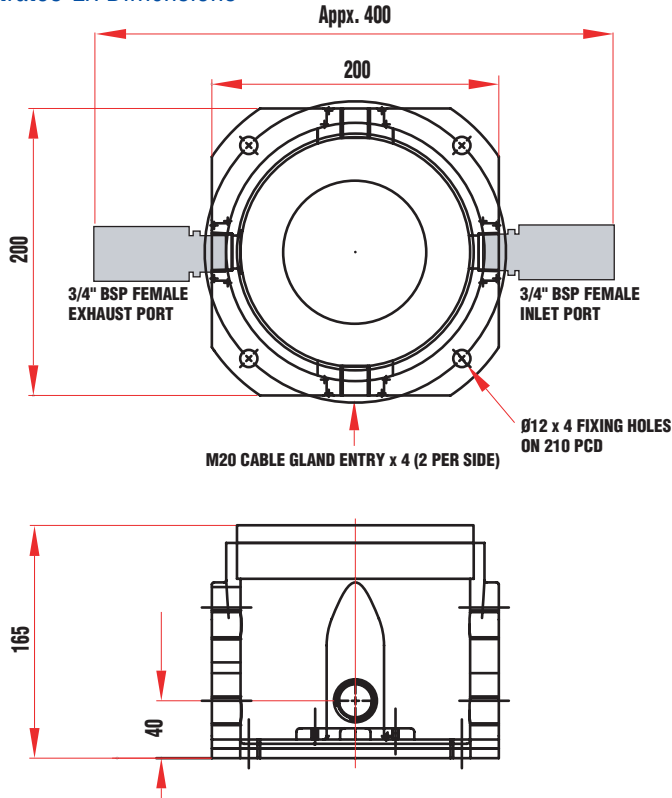
Options Available

- Addressable Protocol Interface Cards APIC[™] available for several industry standard signaling protocols.
- Command Module used for remote monitoring display and set-up.
- SenseNET compatible - up to 127 Stratos-Ex detectors per network loop.
- Remote Display units available (not suitable for installation inside hazardous environment).

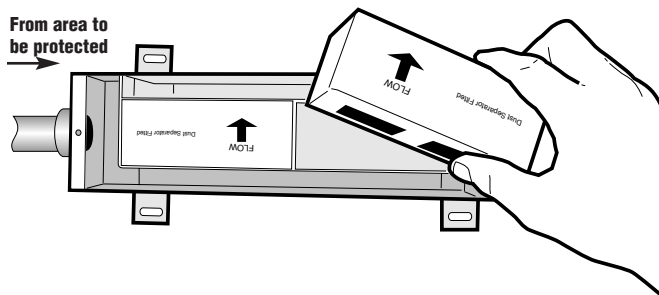
Approvals

- ATEX rated EEx d IIB + H² T3. Equipment group 2 (zones 1, 2 and 3). Group gases A and B + Hydrogen.

Stratos-Ex Dimensions



Filter Replacement



ORDERING INFORMATION

| Part No. | Description |
|----------|---|
| 30731 | Stratos-Ex Detector |
| 30732 | Stratos-Ex Detector (stainless steel version) |
| 30072 | Replacement External Filter Cartridge |
| 30730 | External Filter Assembly |
| 30240 | Setup and servicing Software (free of charge) |
| 30419 | Serial PC Lead |
| 30804 | SenseNET 485/232 PC Interface |
| 30821 | PS25 Power Supply |
| 30436 | Relay Input PCB |

Specification Stratos-Ex

| | |
|---------------------------------------|---|
| Supply Voltage | 21.6V - 26.4V DC PSU Type: conforming to EN 54-4 Electrical safety complies with BS EN 610190-1 |
| Current consumption | 1.1A @ 24V DC |
| Size(mm) exc. cable glands | 400W x 200H x 165D inc. flame arrestors |
| Weight | 8.5kg |
| Enclosure material | Aluminium alloy |
| Operating temperature range | -10 to + 60°C |
| Operating humidity range | 0 - 90% non-condensing |
| Measurement range (%Obs/m) | 0.0015% to 25% |
| Display LEDs | Fire, Fault, OK |
| Detection principle | Laser light scattering mass detection and particle evaluation |
| Particle sensitivity range | 0.0003µm to 10µm |
| Dust discrimination principle | 3D ³ Laser Dust Discrimination (LDD) |
| Recommended max. sampling pipe length | 25m moving air 50m still air |
| Sampling pipe diameter | 3/4" nominal bore (27mm O/D) |
| Recommended no. sampling holes | 10 |
| Alarm levels | 4 (Aux, Pre-alarm, Fire 1 and Fire 2) |
| Laser chamber service intervals | Greater than 10 years (dependent on environment) |
| Laser lifetime (MTTF) | Greater than 1000 years |
| Programming | Command Module or PC via RS232/RS485 |
| Network data bus | RS485 |
| Maximum total data bus length | 1.2 km |
| IP rating | IP65 |
| Sampling pipe inlets | 1 |
| Exhaust air pipe outlets | 1 |
| Cable entries | 4 x M20 |
| Details (Threads) | 3/4" NPT female inlet and exhaust |

APPLICATIONS

- Oil platforms
- Critical equipment
- Pharmaceutical areas
- Marine environments
- Plant rooms
- Motor rooms
- Equipment racks
- LNG plants
- Production areas
- Battery rooms
- Hazardous areas
- Petrochemical



A UTC Fire & Security Company



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

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