



GROVELEY DETECTION

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EEx d High Sensitivity Smoke Aspirator **GD-HSSA**

The Groveley GD-HSSA High Sensitivity Smoke Aspirator system is designed to provide reliable high sensitivity smoke detection, from 0.0015% to 25% obs/m, in hazardous areas. The system is ATEX certified for use in Zone 1 and 2.

The detection of low levels of smoke is possible as the HSSA adjusts the alarm levels to take in to account the background environmental condition. This feature reduces false alarms whilst enhancing the ability of the detector to identify real fires.

The GD-HSSA operates at the optimum sensitivity for the environment it is monitoring, without the need for complicated set up. The detector configures itself to provide and maintain high sensitivity in a clean room or reduced sensitivity in a more dirty location.

The HSSA operates with sampling tube runs of up to 50m, with at least 10 sample point holes.

The HSSA incorporates an APIC card on the control board which allows a simple interface to most commonly available fire detection control panels, or alternatively it can act as a stand-alone EEx d smoke detector.

Features

- External particulate filter
- Patented dual technology laser dust discrimination and filtration system
- Connection interfaces exist for most commercially available Fire Detection Control Panels

Benefits

- Ease of maintenance without the need to gain entry to EEx d enclosure for routine maintenance
- Unwanted alarms from dust and dirt are eliminated
- Easily interfaced with fire control panels, or configured as a standalone system



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buying quality...*

EEx d High Sensitivity Smoke Aspirator GD-HSSA

TECHNICAL DETAILS

Operating Voltage

- 22V to 26V dc
- 1.1A @ 24V dc current consumption

Output Available

- RS485
- Addressable Protocol Interface Card (APIC)
- Fire and fault relays
- 4-20mA (optional)

Display LED's

- Fire, fault, normal operation

Sensitivity Range

- (%obs/m) 0.0015% to 25%
(automatically adjusts to background environment)

Detection Principle

- Laser light scattering mass detection and particle evaluation

Particle Sensitivity Range

- 0.0003 μ to 10 μ

Dust Discrimination Principle

- Laser Dust Discrimination (LDD)

Housing Material Alloy

- Epoxy coated aluminium; option 316 stainless steel
(Excluding breathing device) 200 x 200 x 195mm high
- 8.5 Kg

Recommended Max

- 25m moving air

Sampling Pipe Length and Diameter

- 50m static air
- 25mm OD, 19mm ID (Max)

Sampling Pipe

- Recommended no. sampling holes: 10
- Inlets: 1
- Sampling pipe connections
M25 or ¾" NPT inlet and exhaust
- Draw method eductor - either by instrument air eductor or eex d vacuum pump

Alarm Levels

- 4 (Aux, Pre-Alarm, Fire 1 and Fire 2)

Certification

- Hazardous area: ATEX II 2 G EEx d IIB + H2 T3
- ATEX: EPSILON 06 ATEX 2074

Temperature

- Operating temperature: -10°C to +60°C
- Operating humidity: 0-90% non condensing

Programming

- Command module or PC via RS232/RS485

Cable Entries

- 4 x M20 or M25 option

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