



GROVELEY DETECTION

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High Sensitivity Extended Point IR Detector **GD10PE**

The Simtronics GD10PE is designed for critical applications involving large volumes of air with high velocity. Typical applications include the monitoring of air intakes for HVAC systems in living quarters or generators and monitoring for potential gas leakages in areas with high temperatures in gas turbine packages.

The GD10PE also aids compliance with PM84 because alarm levels as low as 3% LEL are achievable without spurious alarms. GD10PE is designed for installation in air ducts and for mounting through walls and bulkheads in places such as pump rooms. The GD10PE can also be used as a more traditional point detector in places where the properties of the GD10PE is required, such as low ppm level detection, e.g. Ethylene detection.

For retrofit applications, a bridge interface is available allowing the detector to be connected directly to catalytic systems, using the existing cabling and control modules.

GD10PE is an ideal replacement for existing catalytic devices that up to now have been the only alternative in areas with high temperatures; the unit is ATEX certified to 85°C.

Features

- 0-20% LEL detection range
- Alarm points as low as 3% LEL
- Easy installation – one unit, no alignment
- Suitable for high temperature duct areas up to +85°C
- Able to test from outside duct, measures 600mm into duct
- Fast response time and no false gas alarms
- Simple retrofit capability

Benefits

- 5 times more sensitive than standard point detectors
- Aids compliance to HSE Guidance Note PM84
- Specifically designed for gas turbine and air duct applications



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*No-one ever regretted
buying quality...*

High Sensitivity Extended Point IR Gas Detector **GD10PE**

TECHNICAL DETAILS

Models Available

- Methane 0 to 20% LEL
- Ethylene 0 to 5,000 ppm

Environmental

- Operating Temp. -20°C to +65°C
- Storage Temperature -40°C to +70°C
- Probe in Duct up to 85°C
- Humidity 0 to 100% RH (non condensing)

Electrical

- 24VDC Nominal range (18V to 32V DC)
- 3.5W typical power consumption

Response Time (0-20% LEL Methane Version)

Detector Reading	4% LEL	10% LEL	18% LEL
100% LEL test gas	0.6 sec.	0.9 sec.	1.3 sec.
20% LEL test gas	1 sec. (T20)	2.5 sec. (T50)	6 sec. (T90)

Outputs

- Current Source 4-20mA max 500 Ohm
- Current Sink option
- HART® for configuration and maintenance
- Warning Levels: Early clean optics
Configurable (HART) Dirty optics
Sensor failure

Cable Entries

- Conduit entry 2 x M20

Connections

- 3 Wire (0.5mm² - 1.5mm²)

Explosion Proof Housing

- Main compartment EExd IIC T6
- Terminal comp. EExe
- Protection category IP66/IP67 DIN 40050
- Overall dimensions 805L x 104W x 105D mm
- Weight Approx 6.5 KG
- Material stainless steel SIS2343 (ASTM 316)

Certification

- ATEX Directive 94/9/EC, EMC directive 89/336/EEC Article 4
- CSA Standard C22.2. No 152-M1984
- IECEx NEM 07.0006
- INMETRO AEX-11698
- GOST R
- SIL Qualified for SIL2 & SIL3 Systems

Accessories

- Weather protection
- Duct mounting bracket
- Catalytic bridge interface assemblies
- Digital gas concentration display

Warranty

- 5 year full warranty
- 15 year IR source warranty



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