



GROVELEY DETECTION

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Point Infrared Detector GD10P

The Simtronics GD10P has been designed with features that provide an effective response to the detection of gas hazards in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations.

These infrared gas detectors differ from all other models, because they utilise patented silicon based solid-state infrared sources. These sources are so stable that once a detector is factory calibrated it needs no adjustment on site throughout its' working life, thus saving on maintenance and service costs.

Features

- No field calibration - The GD10P does not require re-calibration during its service life
- Solid State IR Source, the SimSource technology carries 15 years warranty
- The dual wavelength, dual path concept has been applied, with great success, since 1985 in all types of operating conditions ranging from arctic to subtropical
- Simple retrofit capability / Enhanced fault diagnostics

Benefits

- Unique advantage of using two solid-state, silicon based IR sources and two Lead Selenide detectors
- The IR source is 100% stable and has an expected life of about 60 years. Competing products use technology based on filament lamps, which only have an expected life of about 3 to 5 years
- Interchangeable with catalytic detectors via the use of a separate custom bridge interface.
- Offers two dirty optic signals, as standard. The ability to detect gas is not immediately lost when the optical assembly becomes dirty
- The detector comes with five year full warranty



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

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TECHNICAL DETAILS

Models Available

■ Methane	0 to 100% LEL
■ Propane	0 to 100% LEL
■ Butane	0 to 100% LEL
■ Ethylene	0 to 100% LEL
■ Methanol	0 to 100% LEL
■ Methane	0 to 100% Volume
■ Carbon Dioxide	0 to 100% Volume
■ Carbon Dioxide	10,000 ppm
■ Biogas	0 to 100% Methane

Other concentrations and gases on request

Response Time

■ Standard 5 second:	T50 = 2.5 seconds T90 = 6.0 seconds
■ Option 1 second:	T50 = 0.7 seconds T90 = 1.6 seconds

Output(s)

■ Current source:	4-20 mA max load 500 ohms
■ Option	Current sink
■ HART®	Maintenance & configuration
■ Warning levels	Early clean optics
■ Configurable (HART)	Dirty optics Sensor failure

Temperature

■ Operating	-40°C to +65°C
■ Storage	-40°C to +70°C
■ Humidity	0 to 100% RH (non condensing)

Electrical

■ Voltage	24V DC Nominal (18V to 32V DC)
■ Typical power consumption:	3.5W



Wiring

- 3 Wire

Explosion Proof Housing

■ Main compartment	EExd IIC T6
■ Terminal comp.	EExe
■ Ingress Protection	IP66/67 DIN 40050
■ Shipping weight	2.9KG
■ Material	316 stainless steel
■ Entries	2 x M20
■ 264L x 106H x 104W overall (mm)	

Hazardous Area Certification

■ ATEX	07ATEX1438
■ CSA	1773527
■ IECEx	NEM 07.006
■ INMETRO	AEX-11698
■ UL	See alternate data sheet
■ Gost R	
■ ABS	# 04-LD444057-PDA
■ SIL	Qualified for SIL2 & SIL3 systems
■ EMC Directive	EN50081-1 / EN50082-2

Accessories

- Weather protector
- Sample flow housing
- Duct mounting bracket
- Catalytic bridge interface assemblies
- Digital gas concentration display
- Test gas kit
- Sunshades
- Insect Guard

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