

**GD10 P** IR Point Gas Detector



### Presentation

The GD10P infrared gas detector is the benchmark for combustible gas detection. It has set the standard for gas detectors in the areas of safety, stability and low maintenance. GD10P comes with a 5 year warranty.

The GD10P differs from all other infrared gas detectors because it uses a solid-state infrared source. The optical block is so robust that it comes with a 15 year warranty and provides an unparalleled detector stability and an unmatched service life.

The GD10P also features heated optics to prevent condensation, a HART interface, fail-safe operation and global approvals.

## **Features**

- 5 years warranty
- 15 years warranty semiconductor IR source (Simtronics patent)
- Zero maintenance
- Response Time T90<1.0s
- SIL 2 certified (SIL3 software)
- Early dirty optics warning for improved preventative maintenance

## **Technical data**

#### General

General		
Technology	IR-absorption, dual wavelength, dual path	
IR-source	Solid state IR source	
Gases detected	Hydrocarbons (for CO <sub>2</sub> see separate data sheet)	
Self-test	Continuous	
Calibration	Factory set, no field recalibration	
Configuration	HART protocol	
Performance		
Accuracy Refers to -20°c to +45°c	±3% FS between 0-50 % reading ±5% FS between 50-100 % reading	
Response time	Methane T20 = 0.2 Sec T50 = 0.4 Sec T90 = 1.0 Sec	Other gases T20 < 1.0 Sec T50 < 2.5 Sec T90 < 6.0 Sec
Output signal		
Standard	Current source 4 – 20 mA, max. Load Impedance 500 ohm	
Option	Current sink 4 – 20 mA	
HART®	Maintenance and configuration	
Detector Faults (HART configurable) - Early clean optics - Dirty optics - Detector failure <b>Electrical</b>	Pre warning (2 mA) Dirt accumulation (1 mA) Internal fault (0 mA)	
Power supply	24V DC (18 - 32V DC)	)
Power consumption	Approx. 3.5 W	
Connection	3-wire shielded cable (0.5-2.5mm <sup>2</sup> )	
Cable entry	M20 Ex e cable gland	

#### Temperature range

remperatorera	ngo	
Storage	-40°C to +70°C (-40°F to +158°F)	
Operating	-40°C to +60°C (-40°F to +140°F)	
Humidity	0.100% NU	

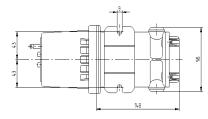
(Operation)

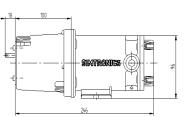
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0- 100% RH
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Ingress Protection	IP66/IP67	
Housing material	Stainless Steel SIS2343 (ASTM316)	
Weight	Approx. 2.9 Kg (6.4 Lbs)	
Dimensions (LxWxH)	264 X 104 x 106 (mm) 10.4 X 4.1 X 4.2 (Inches)	
Warranty		
5 years full warranty on a c 15 years warranty on the in	•	
Approvals		
ATEX / IECEX / INMETRO	II 2 G / Ex db eb IIC Tó Gb	
CSA	C22.2 No 152-M984 and ANSI 12.13.01-2000 Ex d e IIC T6 (for Canada only) Class I, Division 2, Groups A, B, C and D (USA and Canada)	
Various	SIL 2 certified (software is SIL 3), ABS, MED	
Versions		
Gas	Ranges	
Methane	0-100%LEL, 0-100%vol	
Propane	0-100%LEL, 0-100%Vol	
Other versions are available	e, please contact your dealer.	
Front cover		
Required, select one		
Weather protection	Supplied as standard	
Sample flow housing	For sampling systems and bump test	
Duct mount kit	For duct monitoring	
Accessories		
Mosquito net	Extra insect protection	
Sun shade	Shielding for extreme solar radiation exposure or snow deposit	









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