

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<1.5s
- SIL 2 certified (SIL3 software)
- Early dirty optics warning for improved preventative maintenance

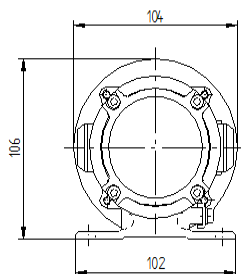


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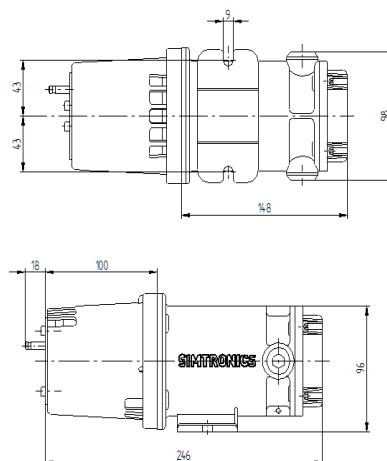
IR Point Gas Detector

Technical data

General		
Technology	IR-absorption, dual wavelength, dual path	
IR-source	Solid state IR source	
Gases detected	Hydrocarbons (for CO2 see separate data sheet)	
Self-test	Continuous	
Calibration	Factory set, no field recalibration	
Configuration	HART protocol (response time, fault settings)	
Performance		
Accuracy	±3% FS between 0-50 % reading	
Refers to -20°C to +45°C	±5% FS between 50-100 % reading	
Response time	Methane T20 = 0.3 Sec T50 = 0.7 Sec T90 = 1.4 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)	Pre warning (2 mA)	
- Early clean optics	Dirt accumulation (1 mA)	
- Dirty optics	Internal fault (0 mA)	
- Detector failure		
Electrical		
Power supply	24V DC (18 - 32V DC)	
Power consumption	Approx. 3.5 W	
Connection	3-wire shielded cable (0.5-2.5mm²)	
Cable entry	M20 Ex e cable gland	
Temperature range		
Storage	-40°C to +70°C (-40°F to +158°F)	
Operating	-40°C to +65°C (-40°F to +149°F)	
Humidity (Operation)	0- 100% RH	



Explosion proof housing	
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 complete instrument 15 years warranty on the infrared sources	
Approvals	
ATEX	II 2 G / Ex d e IIC T5/T6 Gb
CSA	C22.2 No 152-M984 and ANSI/TSA 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)
IECEX	Ex d e IIC T5/T6 Gb
Various	SIL 2 certified (software is SIL 3), ABS, MED
Versions	
Gas	Ranges
Methane	0-100%LEL, 0-100%vol
Propane	0-100%LEL
Other versions are available, 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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