



# **GD10 P**

IR Point Gas Detector



### Presentation

The GD10P infrared gas detector is the market reference for combustible gas detection. It has set the standard for gas detectors in the areas of performance, response time, 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 GD 10P 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 < 1.0 s
- SIL 2 certified (SIL3 software)
- Early dirty optics warning for improved preventative maintenance



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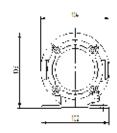
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## **Technical data**

#### 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	All gases T20 = 0,7 sec T50 = 1,7 sec T90 = 4 sec
Output signal	
Standard	Current source 4 – 20 mA, max. Load Impedance 500 ohm
Option	Current sink 4 – 20 mA
HART®	Maintenance and configurationHART 7
Detector Faults (HART configurable) - Early clean optics - Dirty optics - Detector failure	Pre warning 2 mA Dirt accumulation 1 mA Internal fault 0 mA
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 +60°C (-40°F to +140°F)
Humidity (Operation)	0- 100% RH



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### www.teledynegasandflamedetection.com

Explosion	proof housing	

Ingress Protection	IP66/IP67
Housing material	Stainless Steel SIS2343 (ASTM316)
Weight	Approx. 2.9 Kg
Dimensions (LxWxH)	264 X 104 x 106 mm
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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