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
### Technical data

#### General

**Technology**<br>IR-absorption, dual wavelength, dual path<br><br>**IR-source**<br>Solid state IR source<br><br>**Gases detected**<br>Hydrocarbons (for CO2 see separate data sheet)<br><br>**Self-test**<br>Continuous<br><br>**Calibration**<br>Factory set, no field recalibration<br><br>**Configuration**<br>HART protocol (response time, fault settings)<br><br><br>#### Performance

| Accuracy | ±3% FS between 0-50 % reading<br>Refers to -20 °C to +45 °C<br>±5% FS between 50-100 % reading<br> |<br>---|---<br|Methane | Other gases<br>T20 = 0.3 Sec | T20 < 1.0 Sec<br>T50 = 0.7 Sec | T50 < 2.5 Sec<br>T90 = 1.4 Sec<br> | T90 < 6.0 Sec<br> |<br><br>#### Output signal

| Standard | Current source 4 – 20 mA, max. Load 500 ohm<br> |<br>---|---<br>Option | Current sink 4 – 20 mA<br> |<br><br>**HART® Maintenance and configuration**<br>Detector Faults (HART configurable)<br>- Pre warning (2 mA)<br>- Early clean optics (1 mA)<br>- Dirty optics (0 mA)<br>- Detector failure<br><br>#### Electrical

| Power supply | 24V DC (18 - 32V DC)<br> |<br>---|---<br>Power consumption | Approx. 3.5 W<br> |<br>Connection | 3-wire shielded cable (0.5-2.5mm²)<br> |<br>Cable entry | M20 Ex e cable gland<br> |<br>Temperature range<br>Storage | -40°C to +70°C (-40°F to +158°F)<br>Operating | -40°C to +65°C (-40°F to +149°F)<br> |<br>Humidity (Operation) | 0-100% RH<br> |<br>Explosion proof housing<br>Ingress Protection | IP66/IP67<br>Housing material | Stainless Steel SIS2343 (ASTM316)<br>Weight | Approx. 2.9 Kg (6.4 Lbs)<br>Dimensions (LxWxH) | 264 X 104 x 106 (mm)<br> | 10.4 X 4.1 X 4.2 (Inches)<br>Warranty<br>5 years full warranty on a complete instrument<br>15 years warranty on the infrared sources<br>Approvals<br>ATEX | II 2 G / Ex de IIC T5/T6 Gb<br>CSA | C22.2 No 152-M984 and ANSI/TSA 12.13.01-2000<br>Ex d e IIC 16 (for Canada only)<br>Class I, Division 2, Groups A, B, C and D (USA and Canada)<br>IICEx | Ex de IIC T5/T6 Gb<br>INMETRO | Ex de IIC T6 Gb<br>Various | SIL 2 certified (software is SIL 3), ABS, MED<br>Versions<br>Gas Ranges<br>Methane | 0-100%LEL, 0-100% vol<br>Propane | 0-100%LEL<br>Other versions are available, please contact your dealer.<br>Front cover<br>Required, select one<br>Weather protection | Supplied as standard<br>Sample flow housing | For sampling systems and bump test<br>Duct mount kit | For duct monitoring<br>Accessories<br>Mosquito net | Extra insect protection<br>Sun shade | Shielding for extreme solar radiation exposure or snow deposit