GD10P-C02

Fast reliable response No field recalibration Solid state IR-source

The GD10P-CO2 uses state of the art IR gas measurement, to give a fast, reliable response. The GD10P has set the standard for gas detection in the areas of safety, stability and low maintenance. The GD10P comes with 5 years warranty



The GD10P-C02 has been designed with features that provide an effective response to the detection of C02 in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations.

The GD10P-C02 differs from all other point infrared gas detectors, because they utilise silicon based solid-state sources.

The complete optomechanical design and construction is so stable that an ultra fast speed of response can be achieved whilst providing unparalleled service life and detector stability, thus saving on maintenance and service costs.

We offer the longest combined detector and IR source warranty on the market.

Supplied with worldwide hazardous area approvals. Suitable for use in SIL 2 systems.

An industry standard HART® interface is used for configuration of special fault levels as well as access to extended maintenance data.

Features

Solid state IR sources (SimSourceTM)

High IR source flash rate

True dual path, double compensation optical design

Selectable response rate

Dual layer weather protector

Early dirty optics warning

Integral termination compartment

Low power consumption

Independently heated mirror and lens

Benefits

Superior long term performance compared to filament lamps
Improved stability and speed of response
No recalibration, monitors and accounts for all changes in optical path
Fastest IR point detector on the market, ideal for speed critical applications
No mesh, gauze, hydrophobic filters or sinters = No delay, no failure on demand
Improved preventative maintenance
Reduced installation time, the unit is ready out of the box
Reduces load on UPS

High performance detection in rough environmental conditions



GD10P-C02

C02

Continuous

T20 = 1 sec.

T90 = 6 sec.

T50 = 2.5 sec.

Less than 60 sec.

IR-absorption, dual wavelength, dual path

Solid state IR source, 50Hz flash

Factory set, no field recalibration

HART (response time, fault levels)

±7% of full scale (FS) reading

±5% FS between 0-50 % reading ±7% FS between 50-80 % reading

(0.3 sec)

(0.7 sec)

(1.6 sec)

Technical Data

GENERAL

Detection method **IR-Source** Gases detected Self-test Calibration Configuration

PERFORMANCE

Lifetime stability Accuracy

Response time Configurable

Start-up time

OUTPUT SIGNAL Stan

Current source 4 – 20 mA, max. load
impedance 500 Ohm
Current sink 4 – 20 mA
Maintenance and configuration
Configurable (HART)
Pre warning (2 mA)
Dirt accumulation (1 mA)
Internal fault (0 mA)

Approx. 3.5 W

24 V DC, range18-32 V DC

3 wires (0.5mm² - 1.5mm²)

M20 EExe cable gland

ELECTRICAL

Power supply Power consumption Connection Cable entry

TEMPERATURE RANGE

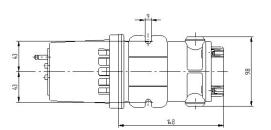
-40°C to + 70°C Storage -20°C to + 65°C Operating Humidity (operation) 100% RH

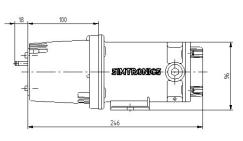
EXPLOSION PROOF HOUSING

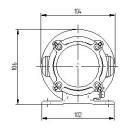
EExd IIC T6 Main compartment FExe Terminal comp. IP66/IP67 DIN 40050 Protection category Housing material Stainless steel SIS2343 (ASTM 316) Weight Approx. 2.9 kg Dimensions 264L x 104W x 106H (mm) 10.4 x 4.1 x 4.2 (inches)

WARRANTY

5 years full warranty on complete instrument 15 years warranty on the IR-sources







APPROVALS

ATEX CSA IECEx INMETRO ΔRS SIL

07ATEX 1438 1773527 NEM 07.006 AEX-11698 # 04-LD444057-PDA Qualified for SIL2 and SIL3 systems

VERSIONS

Standard ranges (Volume): 10000ppm (1%), 3%, 5% 10% and 100% The 0-100% volume is also compensated for Methane interference. Other versions are available, please contact your dealer.

FRONT COVER

Required, select one - Weather protection

For standard point detector

- Sample flow housing For sampling systems and testing For through wall installation
- Duct mount kit

ACCESSORIES

Mosquito net Sun shade

Extra insect protection Shielding for extreme radiation exposure



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