

# GP-CO2

## Geopal GP-CO2 Stand-alone detector

Geopal GP-CO2 detector is a stand-alone detector for carbon dioxide.

It monitors the gas concentration, continuously at a specific precalibrated range. The range is 0-2000 ppm, 0-10000 ppm, 0-3 Vol.-%, 0-20 Vol.-% or 0-100 Vol.-%.

The signals of the Geopal GP-CO2 detector are converted to a linear output signal of 4-20 mA or 0-5 V/0-10 V.

The detector is equipped with alarm relays for low alarm, high alarm and system fault.

## Features

### Simple installation

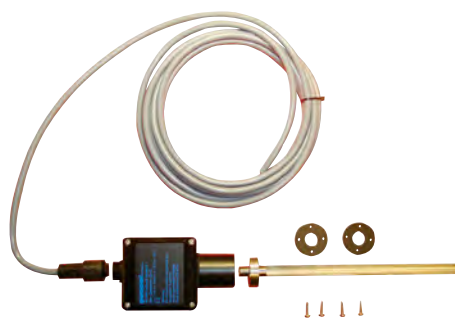
For external wiring of the detector a three-conductor cable is normally all you need. Depending on how many relay functions are required, the number of conductors would be increased accordingly.

### Duct mounting

As option the GP-CO2 detector is available for duct mounting and with a DIN plug for easy mounting/dismounting.



Example of duct mounting with GP-CO2 detectors



**geopal**<sup>®</sup>

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EA 12208IE



PENDING

ITS-1 23ATEXQ36745

DBI reg. no 233.301

DIC444QMS

# GP-CO2

Supply voltage	10 to 32 VDC
Power consumption	6 W max
Available gases	CO <sub>2</sub> Carbon dioxide
Detection range	0-2000 ppm / 0-10000 ppm 0-3 Vol.-% / 0-20 Vol.-% / 0-100 Vol.-%
Response time T90	< 30 sec.
Repeatability	+/- 2 %
Long-term stability	+/- 3% FS / 12 months
Self-diagnostics	Continuous
Sensor	NDIR infrared
Sensor lifetime (expected)	>15 years
Detector in relay version	4-20 mA / (2 mA fault), 1-5 V / (0,5 V fault), 2-10 V / (1 V fault), 0-5 V, 0-10 V 2 relay outputs for alarm 1 and alarm 2 1 relay output for fault Max load 30 V / 1 A
Material housing	Polycarbonate, POM, black
IP rating	IP 56 DIN 40050
Weight	0,4 kg
Mechanical dimensions	82x90x150 mm
Operating conditions	Temperature -20 °C to +50 °C Humidity 0 %RH to 95 %RH not condensing Pressure 1013 mbar ±10%
Operating conditions with build in heater	Temperature -40 °C to +50 °C Humidity 0 %RH to 95 %RH not condensing Pressure 1013 mbar ±10%
Storage	Temperature -25 °C to +55 °C Humidity 0 %RH to 95 %RH
Approvals	Electromagnetic Compatibility Directive (EMC) 2004/108/EEC EN 61 000-6-2; EN 61 000-6-3; EN 61 000-3-2; EN 61 000-3-3; EN 50 270; EN 61 326-1
Safety	IEC 60 204-1: Electrical equipment of machines. IEC 61010-1: Safety requirements for electrical equipment for mea- surement, control and laboratory use. Low Voltage Directive 2006/95/EC (LVD)
Quality	ISO 9001:2015

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