



Geopal GP-O2

Geopal GP-O2 Stand-alone detector



The Geopal GP-O2 stand-alone detector is designed for industry and marine.

The GP-O2 detector uses an integrated microprocessor for continuously monitoring oxygen concentration, within 0-100 Vol.-%.

The signals of Geopal GP-O2 detector are converted to a linear output signal of 4-20 mA or 0-5/10 V.

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

As an option the detector is available for pipe mounting, duct mounting and with a DIN plug for easy mounting / dismantling.

Sensor Life time

The expected sensor life time is
> 5 years (standard)
3 years (option low temperature)

Pipe mounted

Duct mounted



Easy to calibrate

The servicing of Geopal GP-O2 requires no special tools or equipment, only a test gas with the given gas concentration. The actual calibration can be carried out by one person in less than 10 minutes, using a simple push-button system with associated light indicators.

Simple installation

For the 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.

geopal SYSTEM A/S®

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EA 3626BE - Subject to change without notice



DIC444QMS



DBI reg.no. 233.301



SP14ATEX7159

Technical Data

GP-02

Supply voltage	10 to 32 V AC/DC
Power consumption	6 W max
Available gases	Oxygen (O ₂)
Detection range	0-100 Vol.-%, 0-30 Vol.-%, 0-10 Vol.-%
Response time T90	≅ 15 seconds
Repeatability	+/- 5 %
Long-term stability	< 5 % FS / 12 months
Self-diagnostics	Continuous
Expected sensor life time	> 5 years (<i>standard</i>) 3 years (<i>option low temperature</i>)
Electrical output	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
Relay outputs	2 relay outputs for alarm 1 and alarm 2 1 relay output for fault Signal contact 30 V/1 A
Material housing	Polycarbonate, black
IP rating	IP 65 DIN 60529
Weight	0,3 kg
Mechanical dimensions	150 x 80 x 60 mm
Max. operating conditions (<i>standard</i>)	Temperature -10 °C to +40 °C Humidity 5 %RH to 100 %RH not condensing Pressure 1013 mbar ±10%
Detector for low temperature (<i>option</i>)	Temperature -40 °C to +50 °C
Storage	Temperature -15 °C to +50 °C Humidity 0 %RH to 95 %RH
Approvals (<i>Directives and Standards</i>)	Electromagnetic Compatibility Directive (EMC) 2014/30/EU Low Voltage Directive 2014/35/EC EN 60 204-1; EN 61 010-1; EN 61 326-1 (2013); EN 61 000-6-2 (2005); EN 61 000-6-3 (2012); EN 50 270 (2015)
Quality	ISO 9001:2015

Note:

We recommend that onsite calibration is done at operating temperature and humidity. Factory calibration is carried out at 20 °C/65%RH. Accuracy is based on factory calibration conditions.

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