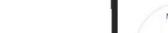
GP-NOVA







geopa

Geopal GP-NOVA Stand-alone detector

The GP-NOVA is designed, built, and manufactured to offer safe, easy, and intuitive operation.

It can be tailored to meet individual end-user needs.

Control and configuration of GP-NOVA is done by either touch buttons or Geopal mobile app, eliminating the need of additional accessories/ tools. Furthermore, the GP-NOVA is tested and calibrated before shipment, reducing the effort required during system installation and commissioning.

Features

Visual Indication Status LED bars visible from distance of \geq 10 m. Green: Active, Red: Alarm, Yellow: Fault/Service, Blue: Bluetooth connection

OLED Display Clear and bright independent of viewing angle

Optical Buttons No need for a magnetic wand

Analog Output Configurable galvanically isolated 4-20 mA loop

Digital Output RS-485 Modbus RTU

Relay Output Alarm1, 2 and Fault

Logger and Blackbox Function Logs up to 2000 events All events and logs are stored on a microSD card

Bluetooth Communication Quick and easy way of configuring, monitoring, and servicing via Geopal mobile app.

SP14ATEX7159







PENDING

DBI reging

Skelstedet 10B, DK 2950 Vedbæk, Danmark Tel: +45 4567 0600 • info@geopal.dk • www.geopal.dk EA 9210CE

GP-NOVA

Power consumption Target gas Measuring range Response time T90 Repeatability Long-term stability Self-diagnostics Sensor technology	 6.5 W max. Explosive and Toxic. For more details, contact Geopal 0-100 %LEL, 0-20000 ppm, 0-100 VOL% Sensor dependent, please contact Geopal +/- 5 %FS < 5 %FS / 12 months
Measuring range Response time T90 Repeatability Long-term stability Self-diagnostics	0-100 %LEL, 0-20000 ppm, 0-100 VOL% Sensor dependent, please contact Geopal +/- 5 %FS < 5 %FS / 12 months
Response time T90 Repeatability Long-term stability Self-diagnostics	Sensor dependent, please contact Geopal +/- 5 %FS < 5 %FS / 12 months
Repeatability Long-term stability Self-diagnostics	+/- 5 %FS < 5 %FS / 12 months
Long-term stability Self-diagnostics	< 5 %FS / 12 months
Self-diagnostics	
•	
Sensor technology	Continuous
	Catalytic, Electrochemical, and NDIR
Signal output	Galvanically isolated, source 4-20 mA with configurable warning and fault signals RS-485 Modbus RTU
Relays	Alarm 1, 2, and Fault Configurable alarm ON/OFF setpoints Energized or de-energized alarm relays Configurable delay time 1 A @ 30 V _{DC} ; 1 A @ 250 V _{AC}
Material housing	Transmitter: Aluminum Sensor: Stainless steel
IP rating	IP 65
Weight	
Dimensions	Transmitter: 142x167x116 (HxWxD in mm) For sensor dimensions, please contact Geopal
Operating conditions	Transmitter:Temperature-40 °C to +60 °CHumidity0 %RH to 95 %RH non-condensingPressure1013 mbar ±10 %
	For sensors operating conditions, please contact Geopal
Recommended storge temperature	0 °C to +25 °C
Approvals (Directives and Standards)	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU Radio Equipment Directive 2014/53/EU EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011 EN 301 489-1 V2 1 1 (2017:02) EN 301 489-17 V3 1 1: (2017:02)
	EN 301 489-1 V2.1.1 (2017:p02), EN 301 489-17 V3.1.1: (2017:02) EN 50270:2015 ATEX directive 2014/34/EU EN IEC 60079-0:2018, EN 60079-1:2014 IECEx compliance with IEC standards IEC 60079-0, Ed. 7 (2017), IEC 60079-1, Ed. 7 (2014-06)
Quality	Functional safety IEC 61508, EN50402 ISO 9001:2015



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DBI reg.no 233.301

DIC444QMS

GP-NOVA

geopal

GP-NOVA

NERM LAS. -

0.0 %LEL

Alarm 2

25.0

Methane

-

Alarm 1 10.0

Visual Indication

Status LED bars offer clear visibility from distance of \geq 10 m. Green: Active, Red: Alarm, Yellow: Fault/service, Blue: Wireless connection.

OLED Display

Clear and bright independent of viewing angle.

Optical Buttons

No need for a magnetic wand.

Analog output

Configurable galvanically isolated 4-20 mA loop.

Relay Output

Alarm 1, 2, and Fault

- Configurable alarm ON/OFF setpoints.
- Energized or de-energized Alarm relays.
- Configurable delay time.

- 1 A @ 30 V_{DC}; 1 A @ 250 V_{AC}.

Digital Output

RS-485 Modbus RTU.

Electrical Ratings

Input voltage: 18-36 V_{DC}. Input power*: < 6.5 W.

*: All relays are active, analog output is set to 23 mA, connected to a catalytic sensor.

Target Gas Types

11.114

Explosive and toxic

Quick and easy way of configuring, monitoring and servicing via Geopals mobile app.

Logger and BlackBox Function

Calibration History

Overview of sensor performance by storing previous calibration data for better planning of maintenance and service routines.

System.

Operating Humidity



Wireless Communication

- Logs up to 2000 events. - Time-stamped signal monitoring, can be viewed and forwarded via email any time via app. - All events and logs are stored on a microSD card. - Memory containing system settings is battery driven, for quick startup after power cycling.

Operating Temperature

Transmitter: - 40 to +60 °C For sensor operating temperature, please contact Geopal

Transmitter: 0 to 95 %RH non-condensing.

For sensor operating humidity, please contact Geopal System.