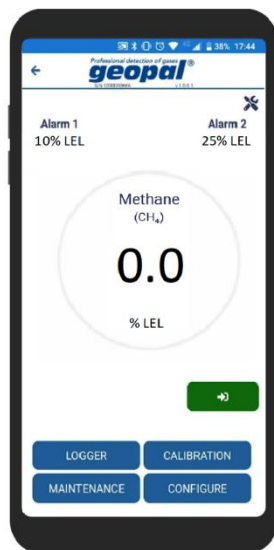


# GP-NOVA



## 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.

**geopal®**

Skelstedet 10B, DK 2950 Vedbæk, Danmark

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EA 9210CE



PENDING



SP14ATEX7159



DBI reg.no  
233.301



Intertek  
DIC444QMS

# GP-NOVA

Supply voltage	18-36 V <sub>DC</sub> , Nominal 24 V <sub>DC</sub>
Power consumption	6.5 W max.
Target gas	Explosive and Toxic. For more details, contact Geopal
Measuring range	0-100 %LEL, 0-20000 ppm, 0-100 VOL%
Response time T90	Sensor dependent, please contact Geopal
Repeatability	+/- 5 %FS
Long-term stability	< 5 %FS / 12 months
Self-diagnostics	Continuous
Sensor technology	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 <sub>DC</sub> ; 1 A @ 250 V <sub>AC</sub>
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 °C Humidity 0 %RH to 95 %RH non-condensing Pressure 1013 mbar ±10 %  For sensors operating conditions, please contact Geopal
Recommended storage temperature	0 °C to +25 °C
Approvals (Directives and Standards)	<b>Low Voltage Directive</b> 2014/35/EU <b>EMC Directive</b> 2014/30/EU <b>Radio Equipment Directive</b> 2014/53/EU EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011 EN 301 489-1 V2.1.1 (2017:p02), EN 301 489-17 V3.1.1: (2017:02) EN 50270:2015 <b>ATEX directive</b> 2014/34/EU EN IEC 60079-0:2018, EN 60079-1:2014 <b>IECEx compliance with IEC standards</b> IEC 60079-0, Ed. 7 (2017), IEC 60079-1, Ed. 7 (2014-06) <b>Functional safety</b> IEC 61508, EN50402
Quality	ISO 9001:2015

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DIC444QMS



# GP-NOVA

## 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<sub>DC</sub>; 1 A @ 250 V<sub>AC</sub>.

## Digital Output

RS-485 Modbus RTU.

## Electrical Ratings

Input voltage: 18-36 V<sub>DC</sub>.  
Input power\*: < 6.5 W.

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

## Target Gas Types

Explosive and toxic



## Wireless Communication

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

## Logger and BlackBox Function

- 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.

## Calibration History

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

## Operating Temperature

Transmitter: - 40 to +60 °C

For sensor operating temperature, please contact Geopal System.

## Operating Humidity

Transmitter: 0 to 95 %RH non-condensing.

For sensor operating humidity, please contact Geopal System.

## Approvals

- ATEX/IECEX.
- Suitable for SIL 2.



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