GP-NOVA

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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 ≥ 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®
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PENDING
SP14ATEX7159
DBI reg.no 233.301
Intertek DIC444QMS

GP-NOVA

Supply voltage	18-36 V_{DC}, Nominal 24 V_{DC}
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_{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 °C Humidity 0 %RH to 95 %RH non-condensing Pressure 1013 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: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) **Functional safety** IEC 61508, EN50402
Quality	ISO 9001:2015

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GP-NOVA

Visual Indication
Status LED bars offer clear visibility from distance of ≥ 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
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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