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
Alarm 1, 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

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PENDING ITS-I 23ATEXQ36745 DBI reg. no 233.301 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 System A/S
Measuring range	0-100 %LEL, 0-20000 ppm, 0-100 VOL%
Response time T90	Sensor dependent, please contact Geopal System A/S
Repeatability	+/- 5 %FS
Long-term stability	< 5 %FS / 12 months
Self-diagnostics	Continuous
Sensor technology	Application dependent, please contact Geopal System A/S
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}
Housing material	Transmitter: Aluminum Sensor: Stainless steel
IP rating	IP 65
Weight	--
Dimensions	Transmitter: 142x167x116 (HxWxD in mm) For sensor dimensions, please contact Geopal System A/S
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 System A/S
Recommended storge temperature	0 °C to +25 °C

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Approvals	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU Radio Equipment Directive 2014/53/EU EN 61000-6-2:2005+AC:2005 EN 61000-6-4:2007+A1:2011 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1: EN 50270:2015 ATEX Directive 2014/34/EU EN IEC 60079-0:2018 EN 60079-1:2014
EU-Type certificate no.	TPS 20 ATEX 108952 0001 X TÜV 16 ATEX 176482 X IECEx compliance with IEC standards IEC 60079-0, Ed. 7 (2017) IEC 60079-1, Ed. 7 (2014-06)
IECEx-certificate no.	TPS 20.0031X TUN 11.0006X
Notified body No.	0123, 0044
Functional safety	IEC 61508, EN50402
Performance	EN60079-29-1:2016
Quality	ISO 9001:2015

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