GP-ELK



Geopal GP-ELK
Stand-alone detector

Geopal GP-ELK is a stand-alone detector, a new generation of gas detectors with electrochemical sensors.

The detector continuously monitors the specific level of toxic and harmful gases.

In the GP-ELK the sensor signal is converted to a 4-20 mA output signal adjusted to the current measurement range and compatible with external control equipment, DDC/PLC control systems, automation systems, etc.

The analog signal from the detector is linear over the range.

Optionally, the Geopal GP-ELK is available in a version equipped with relays for low alarm, high alarm and fault.

On delivery the detector will be calibrated as agreed upon and no further service is required except for regular test with a test gas.

Examples of gasses and proposal of detection ranges

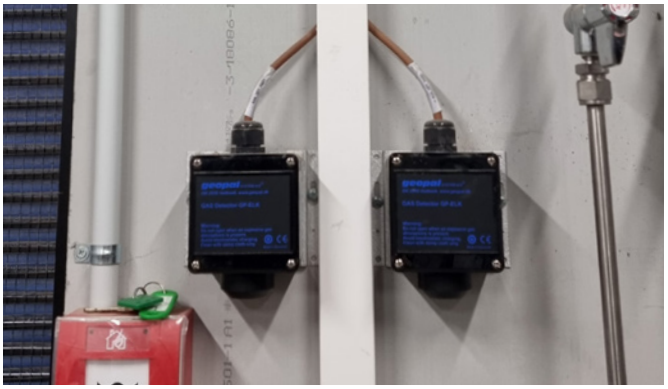
H_2O_2	Hydrogen peroxide	0-5 ppm
H_2S	Hydrogen suophide	0-20 ppm
HCL	Hydrochloric acid	0-20 ppm
C_2H_4	Ethylene	0-10 ppm
CH_2O	Formaldehyde	0-10 ppm
C_2H_4O	Ethylene oxide	0-5 ppm
Cl_2	Chlorine	0-5 ppm
CO	Carbon Monoxide	0-300 ppm
NH_3	Ammonia	0-200 ppm
NO_x	Nitrogen oxides	0-20 ppm
O_3	Ozone	0-5 ppm
PH_3	Phosphine	0-5 ppm
O_2	Oxygen	0-25 Vol.-%

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PENDING ITS-I 23ATEXQ36745 DBI reg. no 233.301 DIC444QMS

GP-ELK

Supply voltage	12 to 32 V DC
Power consumption	6 W max.
Response time T90	< 40 seconds
Repeatability	< 5%
Long-term stability	< 5 % FS/12 months
Self-diagnostics	Continuous
Detector with analog signal	2 wire 4-20 mA, max. load 600 Ω
Detector with analog output and relay outputs	4–20mA / (2mA fault), 1–5V / (0,5V fault), 2–10V / (1V fault), 0-5V, 0-10V
Fault relays	2 relays outputs for alarm 1 and alarm 2 1 relays output for fault Signal contact 30V/1A
Material housing	Polycarbonate, black
IP rating	IP 65 DIN 60529
Weight	0,3 kg
Dimensions	140 x 80 x 60 mm
Max. operating conditions Detector with built in heater (option)	Temperature -20 °C to +50 °C Humidity 0 %RH to 100 %RH non-condensing Pressure 1013 mbar ±10% Temperature -40 °C to + 55 °C
Storage	Temperature -25 °C to +50 °C Humidity 0 %RH to 95 %RH
Approvals (Directives and Standards)	Electromagnetic Compatibility Directive (EMC) 2014/30/EU Low Voltage Directive 2014/35/EC EN 61 000-6-2 (2019); EN 61 000-6-4 (2019); EN 50 270 (2015)
Quality	ISO 9001:2015





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