GP-SB





Example of installation with GP-SB detectors in a parking garage

Geopal GP-SB
Stand-alone detector

Geopal GP-SB stand-alone detector is used for detection of respectively carbon monoxide, hydro carbons and nitrogen oxides.

The detector is designed and developed for use in the industry and for car parks.

CO and NOx are toxic gases that can accumulate in underground parking areas, tunnels, car repair shops, go-kart centers and other places where combustion engines are used.

The detector can be used to activate the ventilation when the concentration of the toxic or explosive gases exceeds the threshold values. Using the detector for controlling the ventilation power is only used when necessary and significant energy savings can be achieved.

The detector for CO & NOx is equipped with electrochemical sensors that exhibit low cross-sensitivity to other gases and high precision even in the very low measuring ranges. The detector for HC is equipped with catalytic sensors.

Features

Easy to calibrate
The servicing of Geopal GP-SB requires no special tools or equipment, only a test gas with the given gas concentration. The actual calibration can be carried out by one person in less than 10 minutes, using a simple push-button system with associated light indicators.

Linear output
The analog signal from the detector is linear throughout the complete measuring range.

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

EA 3510DE

GP-SB

Supply voltage	12 til 32 V DC	
Power consumption	6 W max.	
Avilable gases	CO NO_2 HC	Carbon Monoxide Nitrogen Dioxide Methane, Hexane, Propane, etc.
Detection range	CO NO2 HC	0-300 ppm 0-10 ppm 0-100 % LEL
Response time T90	< 40 sec.	
Repeatability	+/- 5 %	
Long-term stability	< 5 % FS/12 months	
Self-diagnostic	Continuous	
Electrical output	4–20mA / (2mA fault), 1–5V / (0,5V fault), 2–10V / (1V fault), 0-5V, 0-10V	
Relay outputs	2 relay outputs for alarm 1 and alarm 2 1 relay output for fault Signal contact 30V/1A	
Material housing	Polycarbonate, POM, black	
IP rating	IP 65 DIN 60529	
Weight	0,3 kg	
Mechanical dimensions	140 x 80 x 60 mm	
Max. operating conditions	Temperature Humidity Pressure	-20 °C to +50 °C 0 %RH to 100 %RH not condensing 1013 mbar ±10%
Storage	Temperature Humidity	-25 °C to +55 °C 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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