



Geopal GP-BUS

Addressable gas detectors for car park and applications where more detection points are needed.

Detector GP-BUS can handle up to 4 detection points, either as build in sensors or remote detectors. The standard is prepared for 2 build-in sensors and 2 remote detectors.

For car park, the standard has a build in CO sensor and NOx sensor as option.

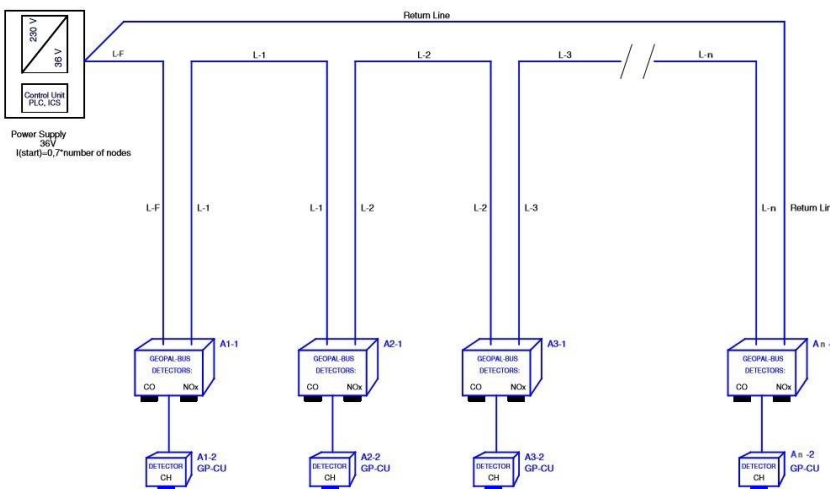
For detection of hydro carbons detector GP-CU is used, that is fitted with a sensor for flammable gasses. Vehicle exhaust fumes present a health hazard because they contain significant levels of toxic gasses such as CO (*carbon monoxide*) and oxides of nitrogen NO/NO2. Hydro carbons can occur if gasoline or LPG tanks are leaking.

The detectors can be used to activate the ventilation when the concentration of the toxic / explosive gases exceeds the threshold limit values.

Using the detectors for controlling the ventilation power is only used when necessary and significant energy savings can be achieved.



GP-BUS with external detector GP-CU for detection of petrol / LPG



geopal SYSTEM A/S®

Skelstedet 10B - DK-2950 Vedbæk, Danmark
 Tel. +45 45 67 06 00
 www.geopal.dk · info@geopal.dk
 EA 19110EE



DIC444QMS



DBI reg.no. 233.301



SP14ATEX7159

Technical Data

GP-BUS

Supply voltage	18 to 36 V DC	
Power consumption	10 W (CO +NOx + GP-CU)	
Network type	MODBUS RTU	
Available gases	CO, NOx, NH ₃ , H ₂ S, Benzin, Methane (CH ₄), Propane (C ₃ H ₈), Hydrogen (H ₂), etc.	
Detecting range	CO (0-300ppm), NO ₂ (0-10ppm), H ₂ S (0-20ppm), CH (0-100%LEL) etc.	
Response time T90	<10 seconds, depending on gas type	
Repeatability	+/- 5%	
Long-term stability	<5% FS/12 months	
Max. numbers of detectors/sensors	4	
Detector input signal	4-20mA	
Max. numbers of build-in sensors	2	
Self-diagnostics	Continuous	
Maksimum number of units	247	
Network speeds	1200, 4800, 9600, 19200, 38400, 56000 or 115200 bit/s Selected with switch	
Material housing	Polycarbonat, POM, sort	
IP rating	IP 63 DIN 60529	
Weight	0,5 kg	
Mechanical dimensions	150 x 170 x 57 mm	
Max. operating conditions	Temperature	-25 °C to +50 °C
	Humidity	0 %RH to 100 %RH not condensing
	Pressure	1013 mbar ±10%
Storage	Temperature	-25 °C to +55 °C
	Humidity	0 %RH to 90 %RH
Approvals (<i>Directives and Standards</i>)	Electromagnetic Compatibility Directive (EMC) 2014/30/EU Low Voltage Directive 2014/35/EC EN 60 204-1; EN 61 010-1; EN 61 326-1 (2013); EN 61 000-6-2 (2005); EN 61 000-6-3 (2012); EN 50 270 (2015)	
MODbus standards	MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b3	
Quality	ISO 9001:2015	