# GP-BUS

## Geopal GP-BUS
## Stand-alone detector

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.

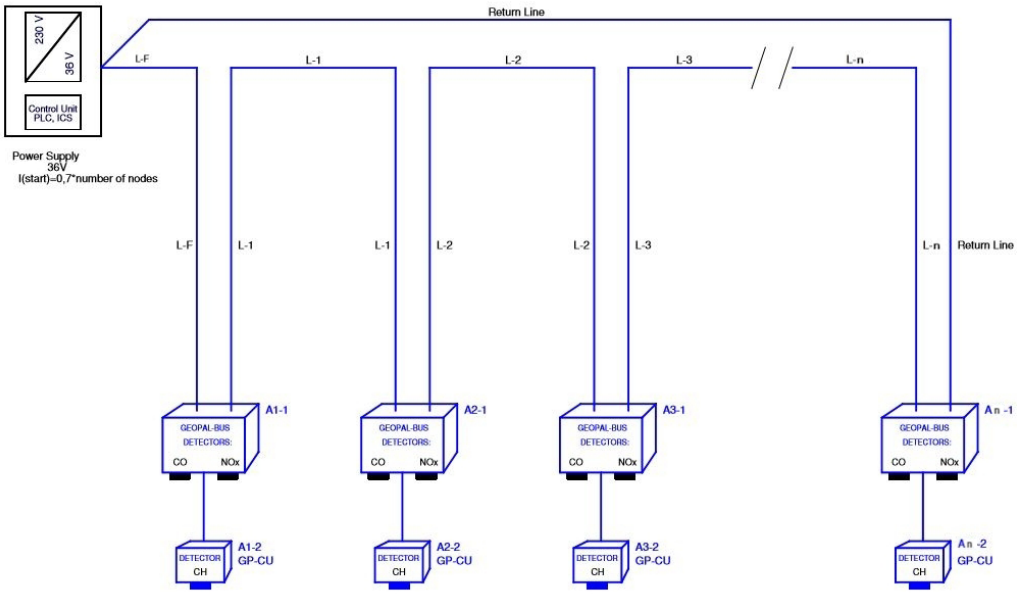
The detectors can be used to activate the ventilation when the concentration of the toxic / explosive gases exceeds the threshold limit values.

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®

Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk


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


EA 19110EE

# 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, NH3, H2S, Benzin, Methane (CH4), Propane (C3H8), Hydrogen (H2), etc. |
| Detecting range | CO (0-300ppm), NO2 (0-10ppm), H2S (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 detetectors/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<br>Selected with switch |
| Material housing | Polycarbonat, POM, black |
| 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<br>Humidity 0 %RH to 100 %RH not condensing<br>Pressure 1013 mbar ±10% |
| Storage | Temperature -25 °C to +55 °C<br>Humidity 0 %RH to 90 %RH |
| Approvals (Directives and Standards) | Electromagnetic Compatibility Directive (EMC) 2014/30/EU<br>Low Voltage Directive 2014/35/EC<br>EN 61 000-6-2 (2019); EN 61 000-6-4 (2019);<br>EN 50 270 (2015) |
| MODbus standards | MODBUS APPLICATION PROTOCOL SPECIFICATION<br>V1.1b3 |
| Quality | ISO 9001:2015 |

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