Geopal GP-CU

Geopal GP-CU
Stand-alone detektor

The Geopal GP-CU stand-alone detector is developed for use together with detector GP-BUS.

Despite this, the detector can be used together with other systems and monitors and like detector GP-SA it is designed for industry and marine.

The detector is continuously monitoring the gas concentration, whether it is in the 0-100% LEL range (lower explosion level) or the 0-40,000 ppm range, for e.g. refrigerants.

The signals of the Geopal GP-CU detector are converted to a linear output signal of 4-20mA or 0-5/10V.

Easy to calibrate

The servicing of Geopal GP-CU 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.

Simple installation

For the external wiring of the detector a three-conductor cable is all you need.

Linear output

Based on a mathematic analysis of the characteristic formed by the semiconductor sensor, the detector generates a model, which results in an analogue output that will be linear in the entire detection range.

Long sensor life time

The semiconductor sensor has the advantages of longer lifetime compared to both the catalytic and electrochemical sensor. Also, the replacement cast is lower.

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DIC444QMS DBI reg.no. 233.301 SP14ATEX7159

Technical Data

GP-CU

Supply voltage	12 V DC
Power consumption	4 W max.
Available gases	Methane (CH_4), Propane (C_3H_8), Butane (C_4H_{10}), Hydrogen (H_2), Hexane (C_6H_{14}), Benzene (C_6H_6), Ethane (C_2H_6), Carbon Monoxide (CO), Pentane (C_5H_{12}), Ethylene (C_2H_4), Ammonia (NH_3), R404A, R407C, R417A, R245fa, R134a, etc.
Detection range	0-40,000 ppm, 0-100 % LEL
Response time T90	< 5 seconds, depending on gas type
Repeatability	+/- 5 %
Long-term stability	< 5 % FS / 12 months
Self-diagnostics	Continuous
Electrical output	4–20mA / (2mA fault), 1–5V / (0,5V fault), 2–10V / (1V fault), 0-5V, 0-10V
Material housing	Polycarbonate, POM, black
IP rating	IP 65 DIN 60529
Weight	0,3 kg
Mechanical dimensions	150 x 80 x 60 mm
Max operating conditions	Temperature -25 °C to +55 °C Humidity 0 %RH to 100 %RH Pressure 1013 mbar ±10
Storage	Temperature -25 °C to +55 °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 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)
Quality	ISO 9001:2015

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