



## Geopal GP-SA-2

### Geopal GP-SA-2 Stand-alone detector for 230VAC



The Geopal GP-SA-2 is a 230VAC version of our well-known GP-SA stand-alone detector. The GP-SA-2 detector uses an integrated microprocessor for continuously monitoring the gas concentration, whether it is in the 0-100% LEL range (lower explosion level) or the 0-40,000 ppm range, in connection with e.g. refrigerants.

A new feature is the "service switch". Using the service switch the alarm relays are deactivated and the fault relay is activated. This makes service much easier and no false alarms will be sent to the external system. The fault relay is active during service as an indicator for the technician to activate the gas detector before leaving site.

The signals of the Geopal GP-SA-2 detector are converted to a linear output signal of 4-20mA or 0-5/10V and the detector is equipped with alarm relays for low alarm, high alarm and system fault.

### Easy to calibrate

The servicing of Geopal GP-SA-2 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 normally all you need. Depending on how many relay functions are required, the number of conductors would be increased accordingly. The detector can be connected to the Power Supply from 85VAC to 264VAC.

### 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.



ITS11.ATEX072188

DBI reg.Nr. 239.301

34498

# Technical Data

## Description:

## Specifications:

### GP-SA-2

Type:	Stand-alone detector
Available gases:	Methane, Propane, Butane, Hydrogen, Hexane, Benzene, Pentane, Ethylene, R404A, R407C, R22, NH <sub>3</sub> ammonia, etc.
Range:	0-40.000ppm, 0-100% LEL (0-5% Vol)
Repeatability:	< 2 % over 12 months
Accuracy:	< 5 % of measured
Response time:	< 3 seconds
Warm-up time after installation:	30 minutes
Supply voltage:	85-264VAC (120-370VDC)
Input Frequency:	47 - 63Hz
Input Current:	0,1A rms at 230VAC
Input Protection:	Fuses max 13Amp.
Internal Protection:	1,25AT / 250VAC (F1)
Electrical output:	4 - 20mA / (2mA fault) or 1 - 5Volt / (0,5V fault) or 2 - 10Volt / (1V fault)
Relay outputs:	2 x alarm relays, AC1 230V/8A, AC15 230V/1,7A 1 x fault relay, AC1 230V/8A, AC15 230V/1,7A [C, NO, NC]
Indicators:	Green LED OK operation, Red LED for alarm 1 and alarm 2 Yellow LED for fault / Standby Internal sound indicators
Service:	Service feature with a new service switch
Pressure Range:	1 atm. ±10%
Operating temperature:	-25°C to +50°C
Operating humidity:	15 to 90 %RH, non-condensing
Material housing:	Polycarbonate, black
Dimensions:	(LWH) 200 x 120 x 57mm
Weight:	0,75 Kg
Protection:	IP65 DIN 40050
EMC Emission:	EN 61 000-6-4: Generic emission standard Part 6-3: EN 55 022, level B conducted & radiated:
EMC Immunity:	EN 61 000-6-2: Generic Immunity standard Part 6-2:
General Safety:	EN 61010-1 & IEC 1010-1: Safety requirements for electrical equipment for measurement, control and laboratory use