



## Geopal GJ-03R



### **Geopal GJ-03R**

*Multi-line alarm monitor for connection of as many as 99 detectors.*

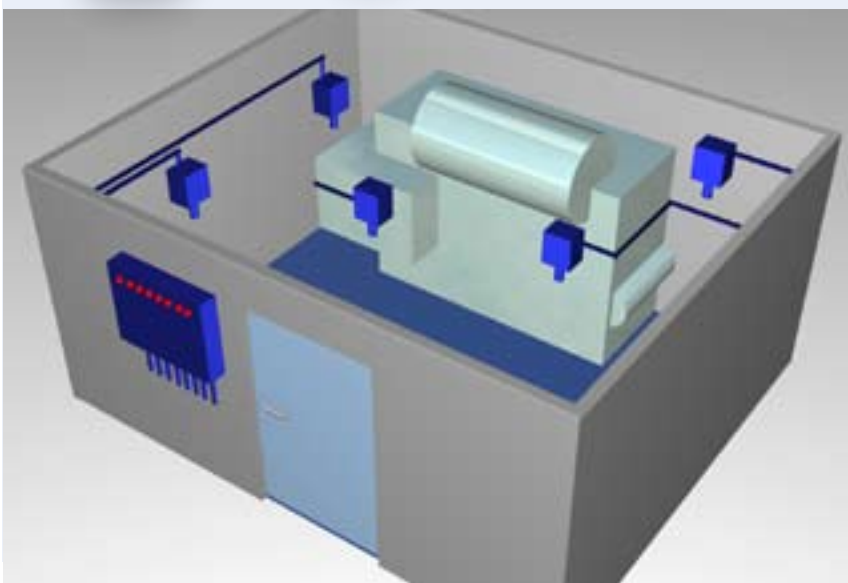


### **Geopal GJ-EX**

*Gas detector for installation in zones 1 and 2. ATEX certified.*

### **Geopal GJ-C**

*Gas detector for installation in non-classified areas*



The gas alarm system type GJ-03R is used where multiple detection points are needed, requiring three or more gas detectors. The modular construction is placed in a 19" rack for mounting in a steel cabinet. It includes control units (watchdog and common unit), line units, relay circuits, power supply and detectors. As an option, we can offer separate relays for the individual lines/detectors. The alarm system is available in four standard sizes: 1-9, 1-16, 1-19 and 1-29 line units/detectors, and it is designed to receive and process the signal from the connected detectors, carry out the necessary signal processing, and set off the gas warning and gas alarm. The relay circuits facilitate the operation of external functions like ventilation systems, magnet valves, cutting off the power supply, etc. The power supply is available with or without UPS.

As an option, the line units are available with a display. The alarm system is fitted with a comprehensive fault-finding circuit with associated light and sound indicators. The GJ-03R system is DIFT certified.



03 ATEX Q133996



DBI reg. Nr. 233.301

A12060  
REGISTERED FIRM  
ISO9001:2000

# Technical Data

## Description:

## Specifications:

### GJ-03R Central Unit

Supply voltage:	230V AC, 110V AC, 12V DC, 24V DC
Power consumption:	According to number of detectors (60W for 9 lines)
Available gases:	Methane, Propane, Butane, Hydrogen, Hexane, Benzene, Ethane, Ethylene, R404A, Carbon Monoxide, R407C, R22, R134A, Ammonia, etc.
Detection range:	0-100 % LEL, 0-40,000 ppm
Response time, to gases:	< 3 seconds
Calibration:	Calibrated to specified type of gas/refrigerant
Relay contacts:	Low and high alarm level, and system fault Max. load 230V AC, 10 A
Analogue output:	4-20 mA / 0 mA = fault, or 0-5V or 0-10V
Cable between detector and Central Unit :	3-conductor 1 or 1.5 mm <sup>2</sup> shielded
Cabinet:	Steel (standard)
Front panels:	Dull green, lacquered aluminium with lithographic print
Indicators:	Green, red and yellow LED plus internal sound indicator
IP rating:	IP 55 DIN 40050 depending on choice of cabinet
Mechanical dimensions:	Rack 1-9 or 1-16: (LWD) 399 x 483 x 211 mm Rack 1-19: (LWD) 532 x 483 x 211 mm Rack 1-29: (LWD) 655 x 483 x 211 mm
Operating temperature:	-10 to +50 °C
Certification:	DIFT no. 233.506 EC project no. 3349D20 EMC Emission: EN 50081-1: Generic Emission Standard part 1 EMC Immunity: EN 50082-2: Generic Immunity Standard part 2
Safety:	EN 61010-1 & IEC 1010-1 Safety requirements for electrical equipment for measurement, control and laboratory use.

### Detector GJ-EX

The GJ-EX is an explosion-proof detector certified for application in zone 1, made of robust materials, designed for use in hazardous environments. Can be fitted with different sensors according to whatever specific gases/vapours need to be detected.

Operating temperature:	-20°C to +80°C
Humidity:	0-100 % relative humidity, non-condensing
Certification/tests:	UL DEMKO 03 ATEX 130471X Ⓔ II 2G EEx DE IIC T5 DIFT no. 233.506 EC project no. 3349D20
IP rating:	IP65
Materials:	Polyamide/AISI 316L
Mechanical dimensions:	(LWD) 180 x 85 x 80 mm. Length incl. cable gland M25
Weight:	1.0 kg

### Detector GJ-C

The GJ-C is used in non-classified areas. It is made of robust materials for application in aggressive environments and can be fitted with different sensors according to whatever specific gases/vapours need to be detected.

Operating temperature:	-25°C to +80°C
Humidity:	0-100 % relative humidity, non-condensing
Certification/tests:	DIFT no. 233.506 EC project no. 3349D20
IP rating:	IP65
Materials:	Polycarbonate/POM
Mechanical dimensions:	(LWD)150 x 80 x 58 mm. Length incl. cable gland M20
Weight:	0.25 kg

Skelstedet 10 B - DK-2950 Vedbæk, Denmark  
Phone: (+45) 45 67 06 00 · Fax: (+45) 45 66 12 05  
www.geopal.dk · info@geopal.dk  
EA 5506AE

**geopal** SYSTEM A/S