



# Geopal GJ-03R



**Geopal GJ-03R**  
*Multi-line gas 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 monitor 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 monitor is available in four standard sizes: 1-9, 1-19 and 1-29 line units/detectors.

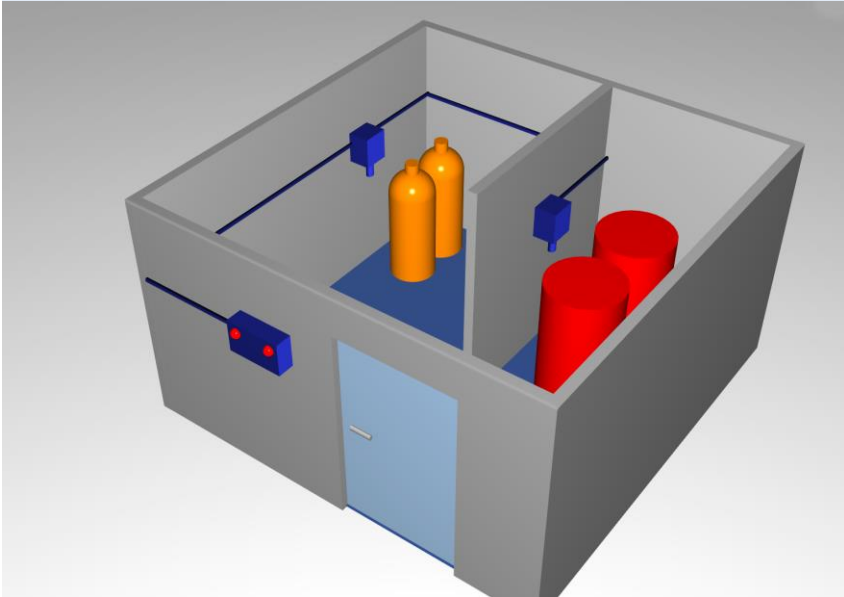
The monitor is designed to receive and process the signal from the connected detectors, carry out the necessary signal processing, and set off the gas warning and gas alarm. The relay circuits facilitate the operation of external functions like ventilation systems, magnet valves, cutting off the power supply, etc.

The power supply is available with or without UPS.

As an option, the line units are available with a display.

The alarm monitor is fitted with a comprehensive fault-finding circuit with associated light and sound indicators.

The GJ-03R system is DIFT certified.



# Technical Data

## GJ-03R Central

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, 0-40000 ppm		
Response time T90	< 5 seconds, depending on gas type		
Repeatability	+/- 5 %		
Long-term stability	< 5 % FAS / 12 months		
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	Steell (standard)		
Front panels	Dull green, lacquered aluminium with lithographic print		
Indicators	Green, red and yellow LED. Sounder (option)		
IP rating	IP 55 DIN 40050 depending on choice of cabinet		
Mechanical dimensions	Rack 1-9	Rack 1-19	Rack 1-29
	LxWxD mm: 345 x 600 x 373	478 x 600 x 373	612 x 600 x 373
Operating temperature	-10 °C to +50 °C		
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) MED directive 961981 IACS E10: 2006; IEC 60 945:2002 and Corrigendum 1: 2008 IEC 60 092-504:2001-03; IEC 60 533:1999-11		
Quality	ISO 9001:2015		



## 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 til +80 °C
Humidity	0-100 % relative humidity, non-condensing
Certification/tests	TÜV 16 ATEX 176482X II 2G Ex D IIC T5 Gb DIFT no. 233.506
IP rating	IP65
Materials	Aluminium/AISI 316L
Mechanical dimensions	LxWxD: 162 x 108 x 95 mm (width without cable gland M25)
Weight	1.5 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 Project no. 3349D20
IP rating	IP65
Materials	Polycarbonate/POM
Mechanical dimensions	LxWxD: 150 x 80 x 58 mm (length incl. cable gland M20)
Weight:	0.25 kg



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