GJ-03R

Geopal GJ-03R
Control and Power Unit

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: 1-10, 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.



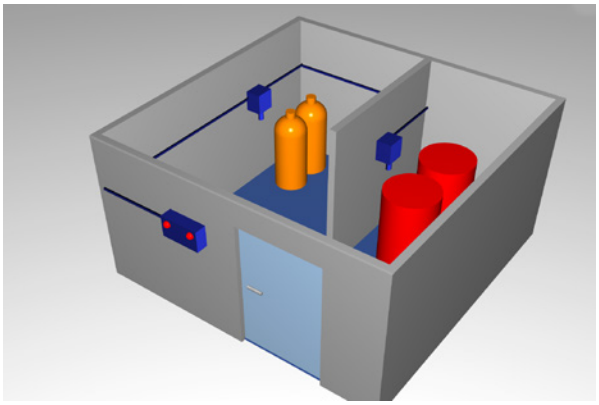
Geopal GJ-03R
Multi-line gas alarm monitor for connection of as many as 99 detectors



Geopal GJ-EX
Gas detector for installation in zones 1 & 2. ATEX certified



Geopal GJ-C
Gas detector for Installation in non-classified areas



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

GJ-03R

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 T90	< 5 seconds, depending on gas type
Calibration	Calibrated to specified type of gas/refrigerant
Repeatability	+/- 5 %
Long-term stability	< 5 % FAS / 12 months
Relay contacts	Low and high alarm level, and system fault Max. load 230 V A.C., 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^2 shielded
Cabinet	Steel (standard)
Front panel	Dull green, lacquered aluminum with lithographic print
Indicators	Green, red, and yellow LED. Sounder (option)
IP rating	IP 55 DIN 40050 depending on choice of cabinet
Mechanical dimensions	LxBxD mm: Rack 1- 10 212 x 600 x 373 Rack 1-9 345 x 600 x 373 Rack 1-19 478 x 600 x 373 Rack 1-29 612 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 61 000-6-2 (2019); EN 61 000-6-4 (2019); 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

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GJ-03R

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 % RH, non-condensing
Certification/tests	TÜV 16 ATEX 176482X Ⓔx II 2G Ex db IIC T5 Gb DBI no. 233.506
IP rating	IP65
Materials	Aluminum/AISI 316L
Mechanical dimensions	LxWxD: 162 x 108 x 95 mm (width without cable gland M20)
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 % RH, non-condensing
Certification/tests	DBI no. 233.506 EC 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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