



## Geopal GJD-L1C



**Geopal GJD-L1C**  
Oxygen monitor  
for connection  
of one detector.

**Geopal GJ-OX**  
Gas detector for  
installation in  
zones 1 and 2.  
ATEX certified.

**Geopal GJ-O<sub>2</sub>**  
Gas detector for  
installation in  
non-classified  
areas.



The oxygen monitor type GJD-L1C is used where only one detection point is needed, which requires just one detector. The present oxygen concentration is shown on a display on the monitor. The oxygen monitor is designed to receive and process the signal from the connected detector. It will carry out necessary follow-up signal processing and set off an oxygen warning and oxygen alarm. The relay circuits in the GJD-L1C system have relay contacts for low alarm level, high alarm level and system fault. The relay circuits facilitate the control of external functions like ventilation systems, magnet valves, alarm bells, etc. The system can be calibrated so that the alarm is activated in the event of increasing or decreasing oxygen concentration.

The GJD-L1C has a fault-finding circuit, which also monitors the detector cable.

The central alarm unit is encased in a sturdy, granite-grey plastic cabinet with a transparent lid.



03 ATEX Q133996



DBI reg. Nr. 233.301

A12060  
REGISTERED FIRM  
ISO9001:2000

# Technical Data

## Description:

## Specifications:

### GJD-L1C Central Unit

Supply voltage:	230V AC, 110V AC, 12V DC, 24V DC
Power consumption:	10 W
Sensor:	Electrochemical
Detection range:	0-100% oxygen
Life expectancy:	Min. 5 years
Response time:	< 15 seconds. T:90%
Relay contacts:	Low and high alarm level, and system fault Max. load 230V AC, 10 A
Analogue output:	4-20 mA. Optional.
Cable between detector and Central Unit :	3-conductor min. 0.5 mm <sup>2</sup> shielded
Cabinet:	ABS/Polycarbonate
Front panel:	Dull green, lacquered aluminium with lithographic print
Indicators:	Green, red and yellow LED plus internal sound indicator
IP rating:	IP 65 DIN 40050
Weight:	1.4 kg
Mechanical dimensions:	(LWD) 185 x 213 x 104.5 mm
Operating temperature:	-10 to +50 °C
Certification:	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-OX

The GJ-OX is an explosion-proof detector certified for application in zone 1. It is made of robust materials designed for use in hazardous environments.

Operating temperature:	-10°C to +50°C
Humidity:	0-100 % relative humidity, non-condensing
Certification/tests:	UL DEMKO 03 ATEX 130471X Ⓔ II 2G EEx DE IIC T6
IP rating:	IP65
Materials:	Polyamide/AISI 316L
Mechanical dimensions:	(LWD) 215 x 85 x 80 mm. Length incl. cable gland
Weight:	1.0 kg

### Detector GJ-O2

The GJ-O2 is used in non-classified areas. It is made of robust materials for application in aggressive environments.

Operating temperature:	-20°C to +50°C
Humidity:	0-100 % relative humidity, non-condensing
IP rating:	IP65
Materials:	Polycarbonate/POM
Mechanical dimensions:	(LWD) 150 x 80 x 58 mm. Length incl. cable gland
Weight:	0.4 kg