Detectors

GJ-C



GJ-ELK



GJ-IR / GJ-CO2



GJSL-CO2



GJ-C, GJ-ELK, GJ-IR / GJ-CO2 and GJSL-CO2

Detectors for monitors

Many different types of Geopal detectors can be connected to our gas alarm monitors depending on specific applications and requirements.

Detectors:

- GJ-C
- GJ-ELK
- GJ-IR / GJ-CO2
- GJSL-CO2

All Geopal detectors specified in this data sheet must be connected to alarm monitors in *non-classified areas*, and all detectors are made of robust materials and tested in Denmark.

All detectors are also available in a version for pipe and duct mounting.

Can be fitted with different sensors according to the target gas.

Possible sensors:

- Semiconductor
- Catalytic
- NDIR HC
- Electrochemical
- NDIR CO2
- MPS
- PID

Please refer to other data sheet and www.geopal.dk for specification of Standard Alone detectors and GJ-EX detector for classified area.

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EA 11210JE

Detectors

GJ-C
Detectors for monitors

GJ-C Semiconductor	
Monitors the detectors can be connected to	GJD-02C, GJD-04C, GJ-03R, GP-SA-2, GP-AMP, GPU-45A
Available gases	Methane (CH4), Propane (C3H8), Butane (C4H10), Hydrogen (H2), Hexane (C6H14), Benzene (C6H6), Ethane (C2H6), Ethylene (C2H4), R404A, R407C, R417A, R134A, Ammonia (NH3), etc.
Detection range	0-40,000 ppm, 0-100 % LEL
Response time T90	< 5 seconds depending on gas type
Repeatability	+/- 5 % of FS range
Accuracy	+/- 5 % of FS range
Long-term stability	< 5 % FS / 12 months
Sensor	Semiconducter
Material housing	Polycabonate/POM
IP rating	IP 65 DIN 60529
Weight	0,3 kg
Dimensions	LxWxD 150 x 80 x 58 mm
Max operating conditions	Temperature -30 °C to +80 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature 0 °C to +80 °C Humidity 0 %RH to 95 %RH
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)
Quality	ISO 9001:2015

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Detectors

GJ-C
Detectors for monitors

GJ-C Catalytic	
Monitors the detectors can be connected to	GJD-02C, GJD-04C, GJ-03R, GP-SA-2, GJD-L3C, GP-AMP, GPU-45A
Available gases	Methane (CH4), Propane (C3H8), Butane (C4H10), Hydrogen (H2), Hexane (C6H14), Benzene (C6H6), Ethane (C2H6), Ethylene (C2H4), Ethanol (C2H5OH), Ammonia (NH3), etc.
Detection range	0-40,000 ppm, 0-100 % LEL
Response time T90	< 20 seconds depending on gas type
Repeatability	+/- 2 % of FS range
Accuracy	+/- 1 % of FS range
Long-term stability	< 3 % FS / 12 months
Sensor	Catalytic
Material housing	Polycabonate/POM
IP rating	IP 65 DIN 60529
Weight	0,3 kg
Dimensions	LxWxD 160 x 80 x 58 mm
Max operating conditions	Temperature -40 °C to +80 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature 0 °C to +80 °C Humidity 0 %RH to 95 %RH
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)
Quality	ISO 9001:2015

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Detectors

GJ-ELK
Detectors for monitors

GJ-ELK	
Monitors the detectors can be connected to	GJD-02C, GJD-04C, GJ-03R, GP-SA-2, GJD-L3C, GP-AMP, GPU-45A
Available gases	Carbon Monoxide (CO), Oxygen (O2), Hydrogen Sulfide (H2S), Nitrogen Dioxide (NO2), Hydrogen (H2), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Ammonia (NH3), Sulfur Dioxide (SO2), Phosphine (PH3), Methanol (CH3OH), etc.
Detection range	0-10.000 ppm / 0-25 Vol.-% O2
Response time T90	< 60 seconds depending on gas type
Repeatability	+/- 2 % of FS range
Accuracy	+/- 3 % of FS range
Long-term stability	< 2 % FS / 12 months
Sensor	Electrochemical
Material housing	Aluminium chromating, chem. resistant paint/AISI 316L
IP rating	IP 65 DIN 60529
Weight	1,5 kg
Dimensions	LxWxD 172 x 125 x 95 mm (width without cable gland M20)
Max operating conditions	Temperature -30 °C to +50 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature 0 °C to +30 °C Humidity 0 %RH to 95 %RH
EX godkendelser	II 2G Ex d IIC T5 Gb The ATEX directive 2014/34/EU and later amendments Ex certificate: TÜV 16 ATEX 176482 X Notified body for CENELEC/ATEX: TÜV 0044 IECEx Certificate No.: TUN 11.0006X
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)
Quality	ISO 9001:2015

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Detectors

GJ-IR / GJ-CO2
Detectors for monitors

GJ-IR / GJ-CO2	
Monitors the detectors can be connected to	GJD-02C, GJD-04C, GJ-03R, GP-SA-2, GJD-L3C, GP-AMP, GPU-45A
Available gases	Carbon Dioxide (CO2)
Detection range	0-1 Vol.-%, 0-3 Vol.-%, 0-20 Vol.-%, 0-100 Vol.-%
Response time T90	< 30 seconds
Repeatability	+/- 2 % of FS range
Accuracy	+/- 1 % of FS range
Long-term stability	< 3 % FS / 12 months
Sensor	NDIR
Material housing	Polycabonate/POM
IP rating	IP 56 DIN 60529
Weight	0,4 kg
Dimensions	LxWxD 82 x 90 x 150 mm
Max operating conditions	Temperature -30 °C to +50 °C Humidity 0 %RH to 90 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature 0 °C to +50 °C Humidity 0 %RH to 95 %RH
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)
Quality	ISO 9001:2015

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Detectors

GJSL-CO2
Detectors for monitors

GJSL-CO2	
Monitors the detectors can be connected to	GJD-MM1
Available gases	Carbon Dioxide (CO2)
Detection range	0-2.000 ppm, 0-10.000 ppm, 0-30.000 ppm
Response time T90	< 30 seconds
Repeatability	+/- 2 % of FS range
Long-term stability	< 3 % FS / 12 months
Sensor lifetime (estimated)	>15 years
Sensor	NDIR
Material housing	POM, black
IP rating	IP 65 (IEC 6052)
Weight	0,4 kg
Dimensions	LxWxD 155 x 80 x 23 mm
Max operating conditions	Temperature -30 °C to +50 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature 0 °C to +50 °C Humidity 0 %RH to 95 %RH
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)
Quality	ISO 9001:2015

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