GJ-EX

Geopal GJ-EX
Detector for monitor

The GJ-EX gas detector is an explosion-proof detector certified for use in zone 1 (ATEX). Made of robust materials for use in aggressive environments.

The GJ-EX detector can be connected to our gas alarm monitors depending on specific applications and requirements.

For use at temperatures up to 80° C.

It can be fitted with different sensors according to the target gas.

Possible sensors:

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



GJ-EX is also available in a version 'GJ-EX-V' for pipe and duct mounting.



Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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

EA 11212AE

GJ-EX

GJ-EX 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	Semiconductor
Material housing	Aluminium chromating, chem. resistant paint/AISI 316L
IP rating	IP 65 DIN 60529
Weight	1,5 kg
Dimensions	LxWxD 162 x 125 x 95 mm (width without cable gland M20)
Max operating conditions	Temperature -20 °C to +80 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature -22 °C to +80 °C Humidity 0 %RH to 95 %RH
EX Approvals	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

geopal®
Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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

GJ-EX

GJ-EX 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), 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	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 -20 °C to +80 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature -22 °C to +80 °C Humidity 0 %RH to 95 %RH
EX Approvals	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

geopal®
Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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

EA 11212AE

GJ-EX

GJ-EX NDIR HC	
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), Hexane (C6H14), Benzene (C6H6), Ethane (C2H6), Ethylene (C2H4), Ethanol (C2H5OH), Isopropanol (C3H8O), etc.
Detection range	0-100 % LEL, 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	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 -20 °C to +60 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature -22 °C to +80 °C Humidity 0 %RH to 95 %RH
EX Approvals	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

geopal®
Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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

EA 11212AE

GJ-EX

GJ-EX Electrochemical	
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 -20 °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 Approvals	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

geopal®
Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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

GJ-EX

GJ-EX NDIR 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 Dioxided (CO2)
Detection range	0-1 Vol.-%, 0-3 Vol.-%, 0-20 Vol.-%, 0-100 Vol.-%
Response time T90	< 60 seconds
Repeatability	+/- 2 % of FS range
Accuracy	+/- 1 % of FS range
Long-term stability	< 3 % FS / 12 months
Sensor	NDIR
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 -20 °C to +60 °C Humidity 0 %RH to 100 %RH, noncondensing Pressure 1013 mbar ±10%
Storage	Temperature -22 °C to +80 °C Humidity 0 %RH to 95 %RH
EX Approvals	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

geopal®
Bygmarken 19 • DK-3520 Farum
+45 4567 0600 • info@geopal.dk • www.geopal.dk

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