POWERED BY G-POD

B-GUARD²



Modular Fixed Gas Detection

With Interactive LED Communication

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B-GUARD²

Fixed Single Gas Detector



The B-Guard² is Gastech's robust and highly visible fixed gas detector powered by G-Pod. Designed for compliance without complexity, it delivers low cost of ownership through fast servicing and modular design. Built tough for industrial environments, it features IP66 and IP68 protection, a choice of aluminium or stainless-steel housings, and IECEx 'd' flameproof certification for the stainless-steel housing. Built-in relays simplify integration with existing safety systems, while the quadrant LED ring provides clear, high-visibility indication of detector status.

Visual safety at a glance

The high visibility quadrant LED system makes hazards, warnings and faults instantly clear, delivering visual safety at a glance. Designed for high visibility from various angles and in a wide range of conditions, it uses colour and quadrant indication to show system status. The LEDs also respond to interaction with colour changes, providing immediate visual feedback.



KEY FEATURES

- 4–20mA source or sink output with HART v7 and Modbus RTU communication
- Non-intrusive setup and calibration
- High-visibility quadrant LED ring
- Certified: stainless steel housing, IECEx and ATEX certified. General purpose: stainless steel or aluminium housing, for areas without a flammable atmosphere
- IP66 and IP68 (1.2m for 30mins) certified

G-Pod Features

- Supports a wide range of sensor technologies, including Electrochemical (EC), Galvanic, Non-Dispersive Infrared (NDIR) and Catalytic Bead.
- Detects combustible, toxic and asphyxiant gases
- Field-replaceable with onboard configuration and calibration data

Low cost of ownership

Designed for fast servicing and minimal downtime. Modular components allow quick G-Pod and face-plate replacements, keeping maintenance simple and helping reduce ongoing operating costs.



Built tough for hazardous areas

Rugged IECEx ‘d’ flameproof protection, IP66 and IP68 ratings, and a stainless-steel housing ensure dependable operation in demanding hazardous area environments. Ideal for energy, oil and gas, mining, utilities, manufacturing and industrial sites where reliable gas detection is critical.



- Built-in relay outputs
- Standard 4–20 mA, HART and Modbus communication
- Aluminium or stainless steel housing options
- IP66 & IP68 rating



Easy integration with existing safety systems

Built-in relay outputs, standard 4–20 mA, HART and Modbus communication make integration straightforward with existing panels, PLCs and control systems. This provides a simple and cost-effective way to replace outdated or unsupported detectors while maintaining compliance-level gas monitoring.

Powered by G-POD



The B-Guard^2 features the modular G-Pod system, with G-Pods available to detect a wide range of toxic, combustible, flammable and asphyxiant gases. As the B-Guard^2 automatically detects the installed G-Pod, you can standardise one platform across site for multiple applications.



G-Pod	Gas	Range	Operating Temp Range		Humidity Range		Pressure Range		Warranty Period
			Min	Max	Min	Max	Min	Max	Months
Electrochemical Sensors									
65-2020-CO-01-PPM-500	CO	0-500 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-CO-01-PPM-5000	CO	0-5000 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-H2-02-PPM-4000	H_2	0-4000 ppm	-20°C	50°C	15%rh	90%rh	90 kPa	110 kPa	12
65-2020-H2S-01-PPM-100	H_2S	0-100 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-H2S-02-PPM-2000	H_2S	0-2000 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-HCN-01-PPM-30	HCN	0-30 ppm	-40°C	40°C	15%rh	90%rh	No data	No data	12
65-2020-NH3-01-PPM-100	NH_3	0-100 ppm	-20°C	40°C	15%rh	90%rh	No data	No data	12
65-2020-NH3-02-PPM-1000	NH_3	0-1000 ppm	-20°C	40°C	15%rh	90%rh	No data	No data	12
65-2020-NH3-03-PPM-5000	NH_3	0-5000 ppm	-20°C	40°C	15%rh	90%rh	No data	No data	12
65-2020-NO-01-PPM-100	NO	0-100 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-NO-01-PPM-250	NO	0-250 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
65-2020-NO2-01-PPM-100	NO_2	0-100 ppm	-20°C	50°C	15%rh	90%rh	90 kPa	110 kPa	12
65-2020-O2-01-VOL-25	O_2	0 -25 %vol	-30°C	55°C	5%rh	95%rh	80 kPa	120 kPa	12
65-2020-O2-02-VOL-25	O_2	0 -25 %vol	-30°C	50°C	5%rh	95%rh	80 kPa	120 kPa	12
65-2020-SO2-01-PPM-50	SO_2	0-50 ppm	-30°C	50°C	15%rh	90%rh	80 kPa	120 kPa	24
Catalytic Sensors									
65-2020-CH4-01-LEL-100	CH_4	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C2H4-01-LEL-100	C_2H_4	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C3H8-01-LEL-100	C_3H_8	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C4H10-01-LEL-100	C_4H_{10}	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C5H12-01-LEL-100	C_5H_{12}	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C6H14-01-LEL-100	C_6H_{14}	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-H2-01-LEL-100	H_2	0-100 %LEL	-40°C	55°C	0%rh	95%rh	80 kPa	120 kPa	12
NDIR Sensors									
65-2020-CH4-02-VOL-5	CH_4	0-5 %vol	-40°C	60°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-CH4-04-VOL-100	CH_4	0-100 %vol	-40°C	60°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-C3H8-02-VOL-2.1	C_3H_8	0-2.1 %vol	-40°C	60°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-CO2-01-VOL-5	CO_2	0-5 %vol	-40°C	60°C	0%rh	95%rh	80 kPa	120 kPa	12
65-2020-CO2-02-VOL-100	CO_2	0-100 %vol	-40°C	60°C	0%rh	95%rh	80 kPa	120 kPa	12
MPS™ Flammables Sensor									
65-2020-CH4-03-LEL-100	CH4	0-100 %LEL	-40°C	70°C	0%rh	100%rh	80 kPa	120 kPa	24

Technical Specifications

Specifications subject to change without notice

Product Description	
B-Guard²	A fixed gas transmitter fitted with a user replaceable single gas G-Pod. Available as a flameproof certified version or a general purpose version.
Physical Specifications	
Size (H x W x D)	199 x 118 x 120 mm
Housing: Certified	316L stainless steel
Housing: General purpose	316L stainless steel or aluminium
Weight: Certified	3.4 kg including fitted G-Pod
Weight: General purpose	3.4 kg including fitted G-Pod (stainless steel housing) 2.8 kg including fitted G-Pod (aluminium housing)
G-Pod Splash Guard Material	Polyoxymethylene
Installation options	Wall mountable using two 9 mm diameter through holes Pipe mountable using pipe mounting kit accessory
Environmental	
Ingress Protection	IP66/IP68 (1.2 m for 30 minutes)
Temperature Range	-40 °C to +70 °C. **Note:** Refer to the available G-Pods list for specific operating temperature ranges
Humidity Range	5 %rh to 95 %rh **Note:** Refer to the available G-Pods list for specific operating humidity ranges
Calibration	
Automatic Calibration	Automatic calibration adjustments for zero and span
Power Requirements	
Power Source	14-32 VDC (if 4-20 mA load < 560 Ω)
Power Consumption	Max 6.7 W
Certification	
IECEx (certified only)	Ex db IIC T4 Gb -40°C ≤ Ta ≤ +70°C (EC & MPS version) Ex db IIC T4 Gb -40°C ≤ Ta ≤ +55°C (CAT version) Ex db IIC T4 Gb -40°C ≤ Ta ≤ +60°C (NDIR version)
ATEX (certified only)	Ex II 2 G Ex db IIC T4
EMC (applies to both versions)	BS EN 50270:2015
User Interface	
Display Type	Three LED indicators and an LED ring for instrument status indication
Operation	Magnetic switch interface using the service tool
Communication Standards	
Analog	4-20 mA current loop (sink or source)
Digital	Highway Addressable Remote Transducer version 7 (HART 7), Modbus RTU (RS-485)
Warranty	
B-Guard²	5 years excluding G-Pods
G-Pods	1 to 2 years depending upon the G-Pod (see sensor specifications for sensor warranties).

Designed and built in Australia, backed by Gastech's local service and support



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