

B-Guard Ir CO₂

Infrared CO₂ Gas Detector



GasTech Australia Blind Guard series B-Guard™ Series GHD CO₂ detector is a single source dual wavelength instrument. The sensing and reference elements are self-compensating for optical integrity and other signal inhibitors. The industry standard 4 -20 mA analog output provides remote alarm, fault and calibration signals.

Features

- Continuous detection of CO₂ gas in explosion hazardous area with flame proof structure
- State of art Infra red detection principle
- Long service life (more than 5 years)
- Low operation cost due to maintenance free
- Operation at no oxygen environment
- Self diagnosis function with built-in Microprocessor
- Rapid response time (with 10 secs)
- 4-20mA DC output signal
- Easy configuration of monitoring system with RS-485 Modbus(isolated) Serial communication function

Applications

- Refineries
- Gas turbines
- Drilling and production platforms
 - Chemical plants
 - Fuel loading facilities
 - Compressor stations
 - Oil well logging
- Wastewater treatment facilities
 - LNG/LPG processing and storage facilities
 - Transportation facilities

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Model	B-Guard GHD(Hydrocarbon)
Measuring gas	CO ₂ gas (Carbon Dioxide)
Measuring type	Diffusion type
Sensor type	Infrared type
Measuring range	0-5% Vol 0-2% Vol
Sensor life time	More than 5 years
Response time	<10 sec / 90% scale
Accuracy	±3% / Full scale
Parameter controls	Non intrusive control with Magnet bar (calibration, maintenance, alarm setting)
Output signal	
Analog output : Measuring signal	4-20 mA DC
Maintenance signal	3 mA DC
Calibration signal	2 mA DC
Fault signal	0 mA DC
Digital output	RS-485 MODBUS (Option)
Cable / Distance	Power + signal cable: 3 wire (above CVVS 1.5sq) / 500m max.
RS-485 data communication cable	1par (UL2919 RS-485) / 1,000m max.
Conduit pipe	1/2" & 3/4" PF, NPT (3/4" PF standard)
Mounting type	2" Pole mount, Wall mount, Duct mount
Operating temperature	-20°C ~ +50°C
Operating humidity	5 ~ 99%.RH (non-condensing)
Operating power	18 ~ 31V DC (24V DC normal) / 300mA max.
Dimensions	301.5 x 152 x 109 (W X H X D)
Weight	2.5kg
Approval	Flame proof structure (Ex d IIC T6),ATEX, IECEx
Ordering information	67-9092-CO2 S-Guard IR Smart Transmitter, 4-20mA, 0-5% VOL IECEx

Distributed By

Telephone +61 8 6108 0000
 Facsimile +61 6 9408 1868
 Free call 1800 999 902
 Email info@gastech.com.au
 24 Baretta Road
 Wangara Western Australia 6065

GASTECH
 AUSTRALIA