B-Guard Ir

Infrared Hydrocarbon Gas Detector

GasTech Australia Blind Guard series B-Guard™ Series GHD hydrocarbon 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 combustible 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	Combustible gas (LNG, LPG, Methane & etc)
Measuring type	Diffusion type
Sensor type	Infrared type
Measuring range	0-10,000 ppm & 0-100 % LEL
	0-10,000 ppm & 0-5.0% 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℃ ~ +50℃
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-Ir S-Guard IR Smart Transmitter, 4-20mA, 0-100% LEL IECex

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