

S-Guard Ir

Infrared Hydrocarbon Gas Detector



GasTech Australia Smart Guard series S-Guard™ Series GIR-3000 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 nature of IR technology
- Operation in inert atmosphere
- Self diagnosis function with built-in Microprocessor
- Rapid response time < 10 secs
- Built in back light LCD display
- Auto calibration and program setting with Magnet control
- Two stage alarm, with one fault relay output
- 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	S-Guard GIR-3000 (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 0-1,000 ppm & 0-10.0% Vol CH4
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)
Operation mode display	4-LED (Power, 2-Alarm, 1-Trouble)
Measuring value display	LCD display (Built-in Back light 2-Line, 16 characters)
Alarm signal output	250V 1A / 3-SPST Relay contact (2-Alarm, 1-Trouble)
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	67-9090-Ir S-Guard IR Smart Transmitter, 4-20mA, 0-100% LEL IECEx 67-9090-Ir-R S-Guard Smart IR Remote Sensors Smart Transmitter, 4-20mA, 0- 100% LEL IECEx

Distributed By

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