# S-Guard

### 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
- · Operation at no oxygen environment
- Self diagnosis function with built-in Microprocessor
- Rapid response time (with 10 secs)
- · Built in Back Light LCD display
- Auto calibration and program setting with Manet 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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## Infrared Hydrocarbon Gas Detector

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

0-10,000 ppm & 0-5.0% Vol

Sensor life time More than 5 years

<10 sec / 90% scale Response time

> **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)

LCD display (Built-in Back light 2-Line, 16 characters) Measuring value display

Alarm signal output 250V 1A / 3-SPST Relay contact (2-Alarm, 1-Trouble)

**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.

> 1/2" & 3/4" PF, NPT (3/4" PF standard) Conduit pipe

Mounting type 2" Pole mount, Wall mount, Duct mount

Operating temperature -20℃ ~ +50℃

5 ~ 99%.RH (non-condensing) **Operating humidity** 

Operating power 18 ~ 31V DC (24V DC normal) / 300mA max.

**Dimensions** 301.5 x 152 x 109 (W X H X D)

> 2.5kg Weight

**Approval** Flame proof structure (Ex d IIC T6), ATEX, IECEx

Ordering information 67-9090 S-Guard IR Smart Transmitter, 4-20mA, 0-100% LEL IECex

67-9090-R S-Guard Smart IR Remote Sensors Smart Transmitter, 4-20mA,

0- 100% LEL IECex

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