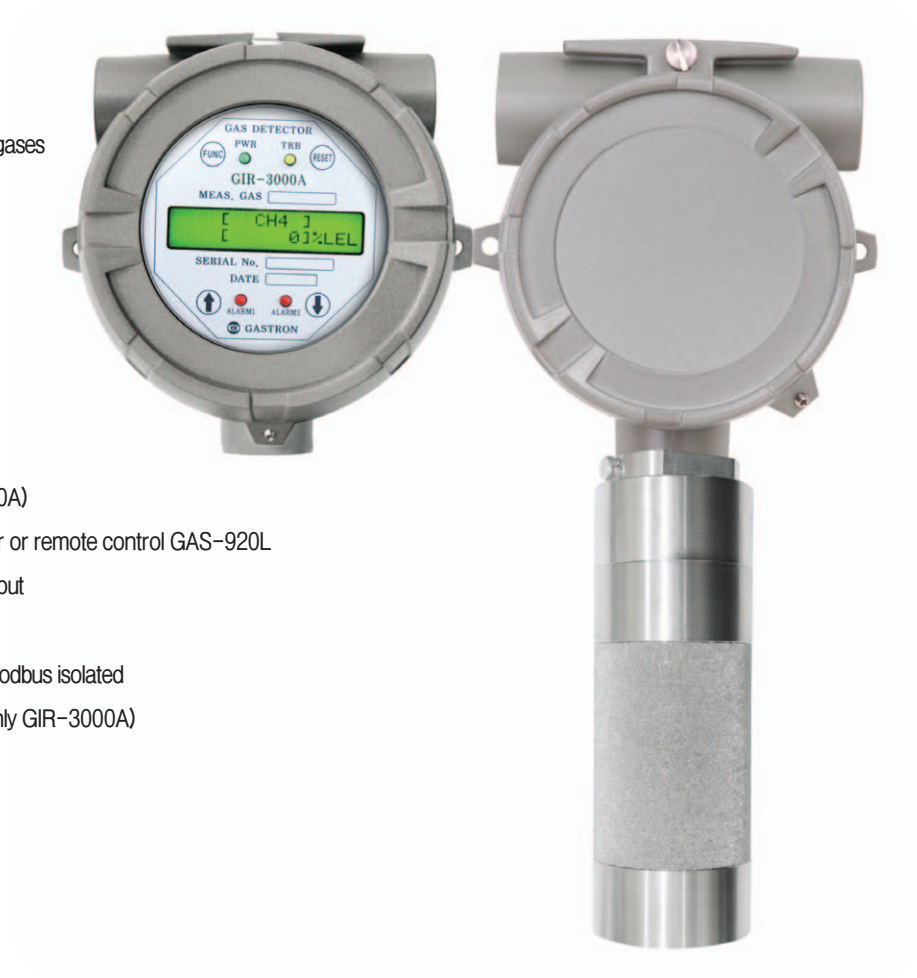


# Remote or Blind Type Infrared Gas Detector

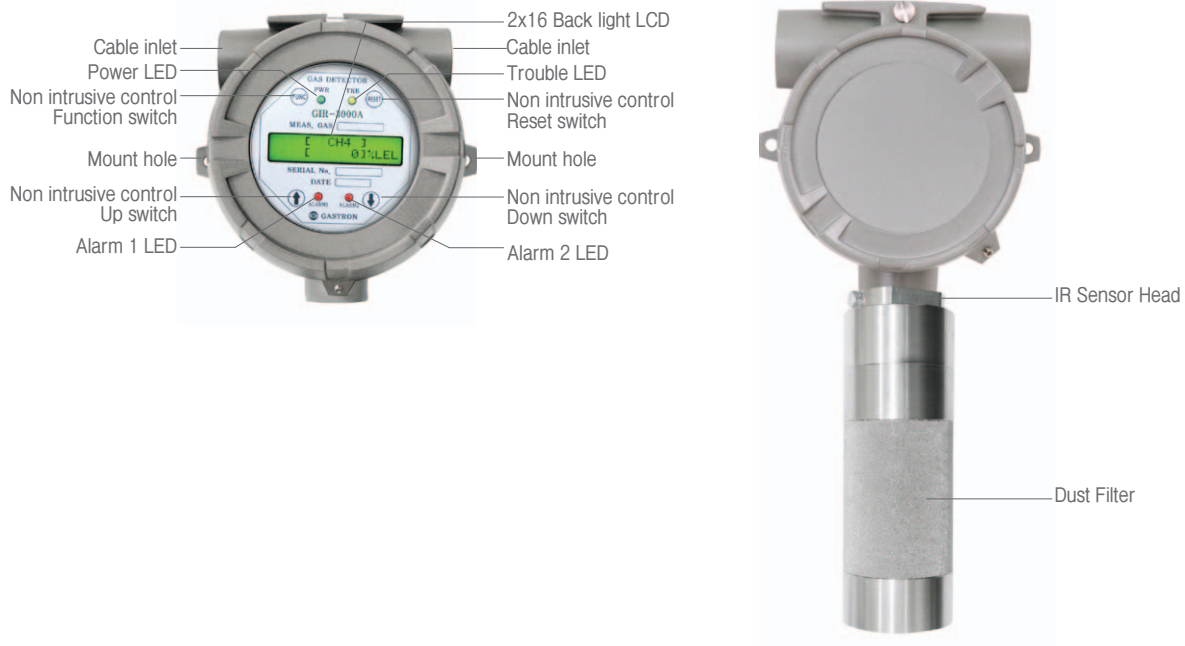
## GIR-3000A (GSA920+JBOX)

### Feature

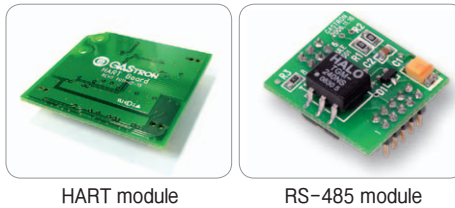
- ▷ Continuous detection of flammable, CO<sub>2</sub>, CO and N<sub>2</sub>O gases in explosion hazardous area with flame proof structure
- ▷ State-of-the art infrared detection principle
- ▷ Long service life time(more than 5 years)
- ▷ Low operation cost due to maintenance free
- ▷ Operation in non oxygen environment
- ▷ Self diagnosis function with built-in Microprocessor
- ▷ Fast response time(<3 sec)
- ▷ Built-in back light LCD or OLED display(Only GIR-3000A)
- ▷ Auto calibration and program setting with a magnet bar or remote control GAS-920L
- ▷ 2-stage alarm, 1-trouble display and relay contact output
- ▷ 4-20mA DC output signal
- ▷ Easy configuration of monitoring system by RS-485 Modbus isolated serial data communication or HART communication(Only GIR-3000A)
- ▷ Calibration and maintenance by one-man



## General



## Accessories



HART module

RS-485 module

## Specification

※Specifications are subject to be changed without prior notice.

| REMOTE OR BLIND TYPE INFRARED GAS DETECTOR |  |
|--|--|
| Model                                      | GIR-3000A  |
| Measuring gas                              | Hydrocarbon gases (LNG, LPG, Methane, Butane & etc)   CO <sub>2</sub>   CO, N <sub>2</sub> O   |
| Measuring type                             | Diffusion type   |
| Measuring method                           | Infrared type  |
| Measuring range                            | 0~100% LEL   0~5000ppm   0~100% Vol   0~2.0% Vol   0~5.0% Vol, 0~4000ppm   |
| Sensor life time                           | Over 5 years   |
| Response time                              | <6sec / 90% scale, <3sec / 50% scale   |
| Accuracy                                   | ±3% / Full scale   |
| Parameter control                          | Non intrusive control with a Magnet bar (calibration, maintenance, alarm setting)  |
| Operation mode display                     | 4-LED (Power, 2-stage alarm, 1-trouble)  |
| Measuring value display                    | LCD display (Built-in back light 2-Line, 16 characters) / OLED Type (Option)   |
| Alarm signal output                        | 250V 1A / 3-SPST Relay contact (2-stage alarm, 1-trouble)  |
| Output signal                              | Analog : Measuring signal : 4~20mA DC<br>Maintenance signal : 3mA DC<br>Calibration signal : 3mA DC<br>Fault signal : 0mA DC<br>Digital : RS-485 Modbus (Option)<br>2mA (HART 7, HART Device Description Language available, Option)       |
| Cable / Distance                           | Power + signal cable : 3 wire >1.5sq(AWG16) / 500m normal<br>RS-485 data communication cable : 1 pair (UL2919 RS-485) / 1000m max  |
| Material                                   | Housing : ALDC, SUS316(Optional) / Sensor : SUS316   |
| Conduit connection                         | G. Rc. NPT 1/2", 3/4" & M20 (G 3/4" : standard)  |
| Mounting type                              | 2" Pole mount, Wall mount, Duct mount  |
| Operating temperature                      | -20°C ~ +60°C  |
| Operating humidity                         | 5 ~ 99% RH (non-condensing)  |
| Operating power                            | 18 ~ 31V DC (24V DC normal) / 100mA max.   |
| Dimensions                                 | 156 X 323 X 110 (W X H X D)mm  |
| Weight                                     | 3kg  |
| Approval                                   | GIR-3000A : Explosion proof type (Ex d IIC T6) KCs / IP65<br>Explosion proof type (Ex d IIC T6 Gb) NEPSI<br>KFI<br>GSA920(Sensor head) : Explosion proof type(Ex d IIC) ATEX/IECEx<br>GDH-1010(JBOX) : Explosion proof type(Ex d IIC) ATEX |