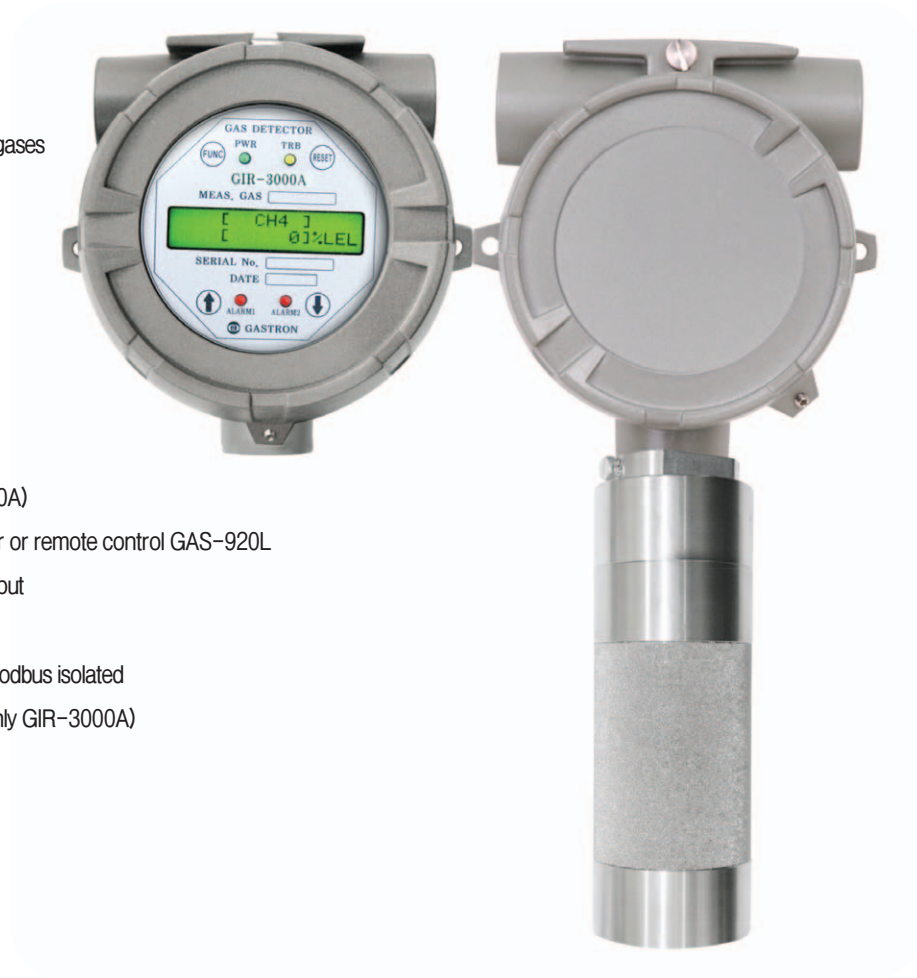


Remote or Blind Type Infrared Gas Detector

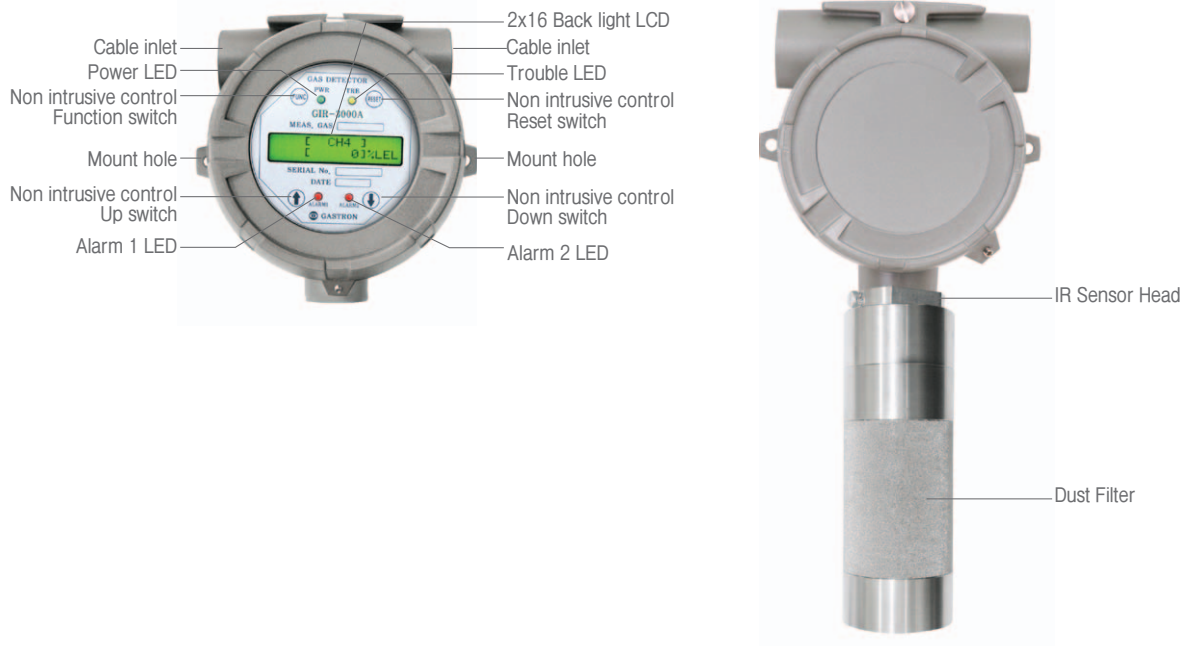
GIR-3000A (GSA920+JBOX)

Feature

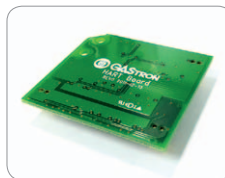
- ▷ Continuous detection of flammable, CO₂, CO and N₂O gases in explosion hazardous area with flame proof structure
- ▷ State-of-the art infrared detection principle
- ▷ Long service life time(more than 5 years)
- ▷ Low operation cost due to maintenance free
- ▷ Operation in non oxygen environment
- ▷ 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 ₂ CO, N ₂ 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 Maintenance signal : 3mA DC Calibration signal : 3mA DC Fault signal : 0mA DC Digital : RS-485 Modbus (Option) 2mA (HART 7, HART Device Description Language available, Option)
Cable / Distance	Power + signal cable : 3 wire >1.5sq(AWG16) / 500m normal 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 Explosion proof type (Ex d IIC T6 Gb) NEPSI KFI GSA920(Sensor head) : Explosion proof type(Ex d IIC) ATEX/IECES GDH-1010(JBOX) : Explosion proof type(Ex d IIC) ATEX