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
Infrared Gas Detector

2x16 Back light LCD
Cable inlet
Trouble LED
Non intrusive control
Function switch
Mount hole
Up switch
Alarm 1 LED
Non intrusive control
Down switch
Alarm 2 LED

IR Sensor Head
Dust Filter

General

REMOTE OR BLIND TYPE INFRARED GAS DETECTOR

Model          GIR-3000A
Measuring gas  Hydrocarbon gases (LNG, LPG, Methane, Butane & etc)  CO₂  CO, N₂O
Measuring type Diffusion type
Measuring method Infrared type
Measuring range 0~100% LEL  0~5000ppm  0~100% Vol
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 4-LED (Power, 2-stage alarm, 1-trouble)
Measurement 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 : 0mA DC
Fault signal : 0mA DC
Digital : RS-485 Modbus (Option)
2mA (HART 7, HART Device Description Language available, Option)
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(Option) / Sensor : SUS316
Condant 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℃ ~ 40℃
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/IECEx
GDH-1010(JBOX) : Explosion proof type(Ex d IIC) ATEX

Specifications are subject to be changed without prior notice.