



RIKEN KEIKI

For LPG・CNG gas facilities / For Hydrogen refueling station

# Combustible gas detector



**Model GP-147**

Easy to attach more indicators.



Indicator unit  
(2-channel)

Sample drawing type  
GD-D58



Diffusion type  
GD-A80/A8 series



Gas detector head  
GP-147 (4-channel)

## Applications

- LPG gas manufacturing storage, consuming facilities
- CNG gas manufacturing storage, filling facilities
- Hydrogen refueling station
- Natural gas station
- Other factories

## Features

### ● Backup point selection function

It is possible to select whether to perform backup for each indicator using the selector switch. Power can be supplied only to the necessary point in the event of a blackout to perform continuous monitoring of gas leakage efficiently.

### ● Easy to enter the maintenance mode.

It is possible to enter the maintenance mode in one switch. It is easy to adjust zero and span.

### ● Available for continuous monitoring of hydrogen refueling station.

It is applied for early detection possible to detect Hydrogen in Hydrogen refueling station, which is ppm to LEL as usage.

### ● Two-color (red / green) LCD

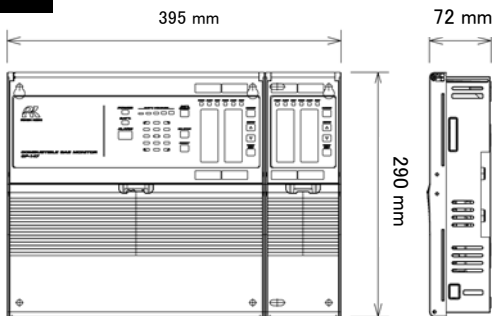
It is possible to determine the danger from the remote location.

## Specifications

Model	GP-147	
Detection gas	Combustible gases in air	
Detection principle	Catalytic Combustion Method/New Ceramic Catalytic Method	
Detection range※1	It depends on what gas is.	
Indication	CLCD (Bar meter (red/green))	
Alarm preset level※1	It depends on what gas is.	
Alarm accuracy (Under same condition)※1	Better than $\pm 25\%$ of alarm preset point	
Alarm response time (Under same condition)※1	Within 30 seconds after giving 1.6 times thicker gas than alarm level. (Without any consideration for pipe)	
Alarm	Latching(Standard) or Non-latching(Optional) Flashing or lighting red lamp (after reset) Warning buzzer(Standard) or Warning buzzer + Audio message(Optional)	
Trouble alarm method/Display	Non-latching (Standard) or Latching (Option) Flashing or lighting orange lamp (after reset), Content indication Warning buzzer(Standard) or Warning buzzer + Audio message(Optional)	
Alarm output	General	Voltage contact output DC 0-6-12V (up to 10mA) No-voltage contact output contact 1c (Contact capacity: AC 250V 2A) Buzzer power : DC 24V up to 10mA Buzzer power: No-voltage contact 1a(Standard) or contact 1b (Option) /Contact capacity: AC 250V 1A
	Individual	Voltage contact output DC 0-6-12V/up to 10mA (Standard) or 4~20mA/Load resistance : up to 300Ω (Option) Alarm contact : No-voltage 2 contact/Contact capacity: AC 250V 2A, contact a (Standard) or contact b (Option)
Alarm delay time	2 seconds /standard or you can adjust the delay time by up to 60 seconds.	
Indicator/alarm unit	2-channel per unit	
Power	AC 100~240V $\pm 10\%$ 50/60Hz	
Protection against thunder damage	With protection from lightning surge	
Emergency power source	Lead battery 12V 2.3Ah $\times 2$ pcs. With selective functions of back up.	
Installation	Wall mounting/Panel mounting	
Operating temperature	-10~50°C (no sudden change)	
Operating humidity	10~90%RH (non condensing)	
Dimensions/Weight	2 channel	approx. 290(H) $\times$ 305(W) $\times$ 72(D) mm / approx. 3.9kg
	4 channel	approx. 290(H) $\times$ 395(W) $\times$ 72(D) mm / approx. 5.0kg
	6 channel	approx. 290(H) $\times$ 485(W) $\times$ 72(D) mm / approx. 5.8kg
	8 channel	approx. 290(H) $\times$ 575(W) $\times$ 72(D) mm / approx. 6.6kg
	10 channel	approx. 290(H) $\times$ 665(W) $\times$ 72(D) mm / approx. 7.4kg
12 channel	approx. 290(H) $\times$ 755(W) $\times$ 72(D) mm / approx. 8.2kg	
Distance between indicator and detector head	CVV four-core cable or six-core cable	0.75mm <sup>2</sup> MAX 300m
	CVV four-core cable or six-core cable	1.25mm <sup>2</sup> MAX 500m
	CVV four-core cable or six-core cable	2.0mm <sup>2</sup> MAX 500m
Color of painting	Munsell N 7.2, Light gray	

## Outer dimensions

Ex.) 4-channel

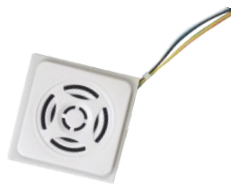


## Standard accessories

- Panel mount bracket for panel mounting type

## Option

- Voice unit
- Fuse  $\times 2$  pcs. (5A  $\phi 5 \times 20$ mm)



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