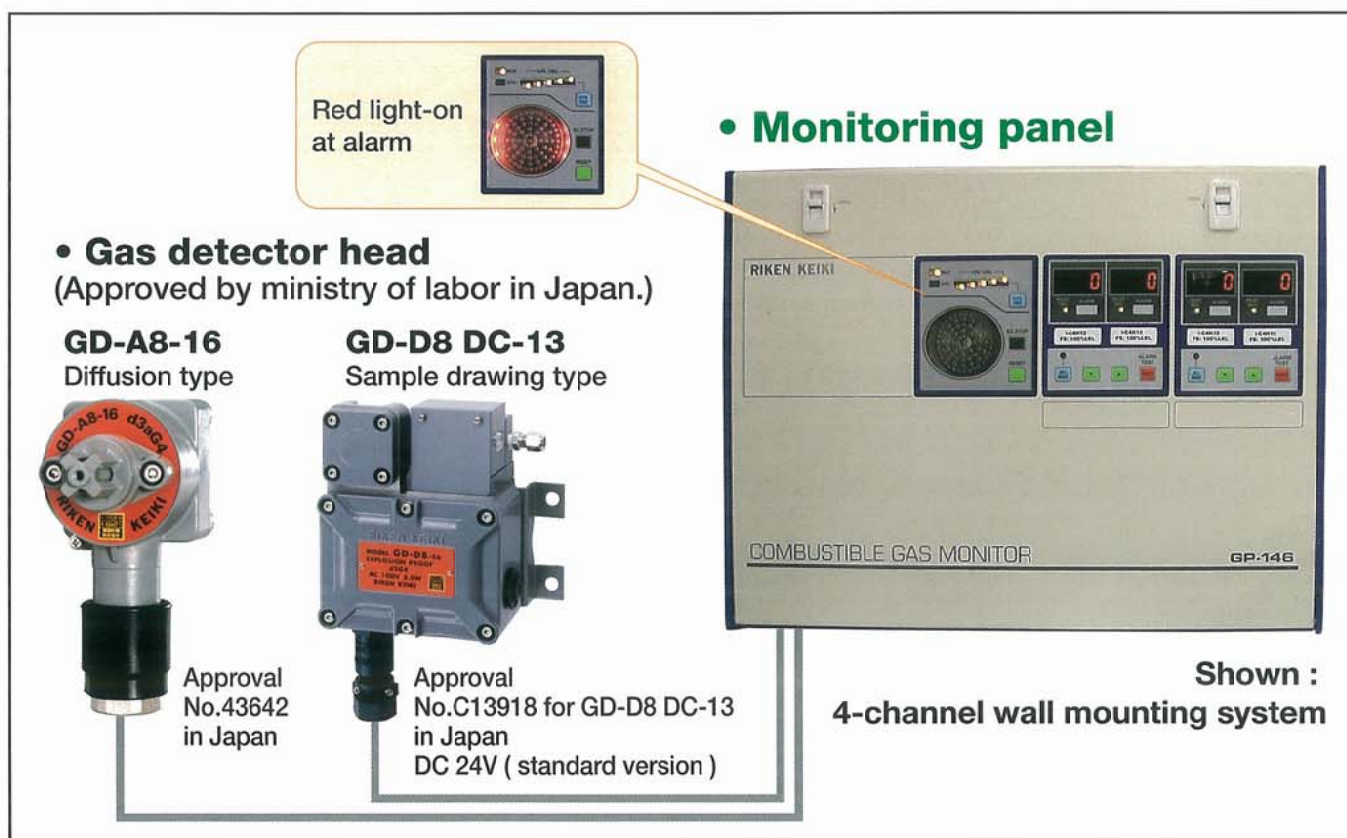


# RIKEN

# COMBUSTIBLE GAS DETECTION AND ALARM SYSTEM

( COMPLIES WITH LP GAS / GENERAL HIGH PRESSURIZED GAS SAFETY REGULATION, JAPAN )

## MODEL GP-146



## FEATURES

- Easy-to-read digital display
- Peak-hold/memory function provided
- Lightning surge protection circuit built in
- High integrated compact design
- Built-in stand-by battery for emergency power failure (Optional)
- Multi-case gas monitor available from 2 to 12 channels

## APPLICATIONS

- LP gas manufacturing storage, consuming facilities
- Factories utilizing high pressure gas or flammable gas
- Chemical plants
- Marine use
- Other factories



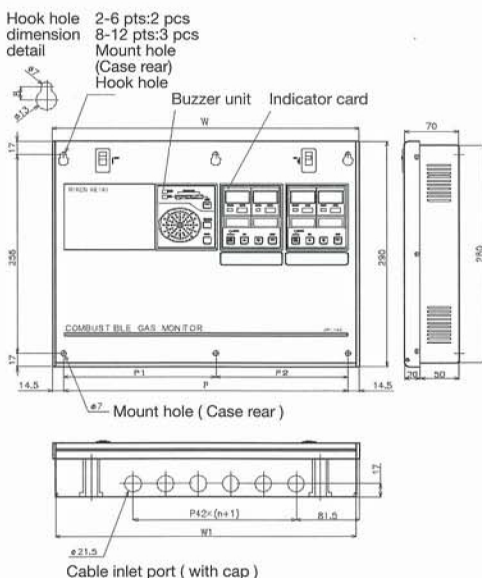
# RIKEN KEIKI

- **Monitoring panel ( indicator/alarm unit )**

Model	GP-146 ( 2 to 12 channel )	
Measuring gas	Combustible gas ( iso-butane version, standard ) in air	
Detection principle	Catalytic combustion method	
Measuring range	0-100%LEL	
Display method	Digital LED read-out ( 7 segment red LED, 4-digit )	
Alarm preset point	1/4 of full scale ( standard )	
Alarm accuracy	Better than $\pm 25\%$ of alarm preset point	
Response time	Within 30 sec ( when detect 1.6 times cal gas the alarm preset point into gas detector head ) at T90	
Alarm display	Individual alarm lamp (red) blinking, latched mode Buzzer continuous tone, latched mode ( gas alarm ) Buzzer intermittent tone ( trouble alarm )	
External output	Individual	Energy voltage DC 0-6-12V ( Output current : below 20mA ) / 4-20mA ( load resistance, below 300 ohm ) [ Option ] Alarm contact output 1a ( contact capacity : AC250V 2A resistance load )
	General	Energy voltage output : DC 0-6-12V, Below 20mA output current. Total alarm contact output : 1c ( contact capacity AC250V 2A resistance load ) External buzzer contact output : 1a ( contact capacity AC250V 1A ) Energy output for external buzzer : DC 24V, below 10mA
Alarm delay	2 seconds ( std ), adjustable at any level, max 60 seconds	
Ambient temperature/humidity	0-40°C, below 85%RH	
Indicator/alarm card	2 detection points per card	
Power source	AC 100~120V $\pm 10\%$ /AC 200V~240V $\pm 10\%$ 50/60Hz change over	
Stand-by battery ( Optional )	Internal stand-by battery ( for DC 24V ) available as optional	
Lightning protection	Internal lightning protection circuit	
Mounting	Wall mounting ( standard ) or panel mounting ( optional )	
Dimensions & weight	See the view below.	
Cable size between panel and detector head	CVV 4 core or 6 core 0.75sq Max 300m CVV 4 core or 6 core 1.25sq Max 600m CVV 4 core or 6 core 2.0sq Max 1000m	

※ Specifications subject to change without notice

- **Outer dimensions**



• **Outer dimensions & weight ( standard type )**

Dimensions, weight, power consumption and duration of stand-by battery

Channel (n-point)	Weight	Dimensions	Power consumption (continuous charge case with HC sensor HW-6211)	Operation hour of stand-by battery
2	Approx 5.6 kg	Approx 305(W)×290(H)×70(D)	13.6VA	Approx 500 min
4	Approx 6.5 kg	Approx 395(W)×290(H)×70(D)	19.7VA	Approx 270 min
6	Approx 7.5 kg	Approx 485(W)×290(H)×70(D)	25.8VA	Approx 190 min
8	Approx 8.5 kg	Approx 575(W)×290(H)×70(D)	31.9VA	Approx 140 min
10	Approx 9.5 kg	Approx 665(W)×290(H)×70(D)	38.0VA	Approx 100 min
12	Approx 10.5 kg	Approx 755(W)×290(H)×70(D)	44.1VA	Approx 90 min

※ When use long durable standby battery, consult it separately.

- **Applicable detector heads**

Detector head	GD-A8-16 ( std )	GD-A8-18	GD-D8 DC-13 ( std )	GD-D8-56
Sampling method	Diffusion sampling		Sample-drawing	
Ambient temperature	-10~40°C Below 95%RH			
Power source	—————		DC24V±10% (pump power)	AC100V±10% 50/60Hz (pump power)
Power consumption	—————		Approx 5W	Approx 4VA
Weight	Approx 0.9kg		Approx 3.5kg	
Explosion-proof	d3aG4	d3a cG4 for C2H2	d IIBT4	d2G4

※ Specifications subject to change without notice



**RIKEN KEIKI CO.,LTD.**

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

Phone : TOKYO (03)3966-1113

Telefax : TOKYO (03)3558-9110 (GIII)

E-mail : [intdept@rikenkeiki.co.jp](mailto:intdept@rikenkeiki.co.jp)

Web site : <http://www.rikenkeiki.co.jp>

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**CÔNG TY TNHH MTV MÁY ĐO KHÍ VIỆT NAM**

79 Lý Chính Thắng, phường 8, quận 3, Tp.HCM

Tel : (08). 3526 2987

Fax : (08). 3526 2980

Email : [info@vina-gasdetector.vn](mailto:info@vina-gasdetector.vn)

Web : [www.vina-gasdetector.vn](http://www.vina-gasdetector.vn)