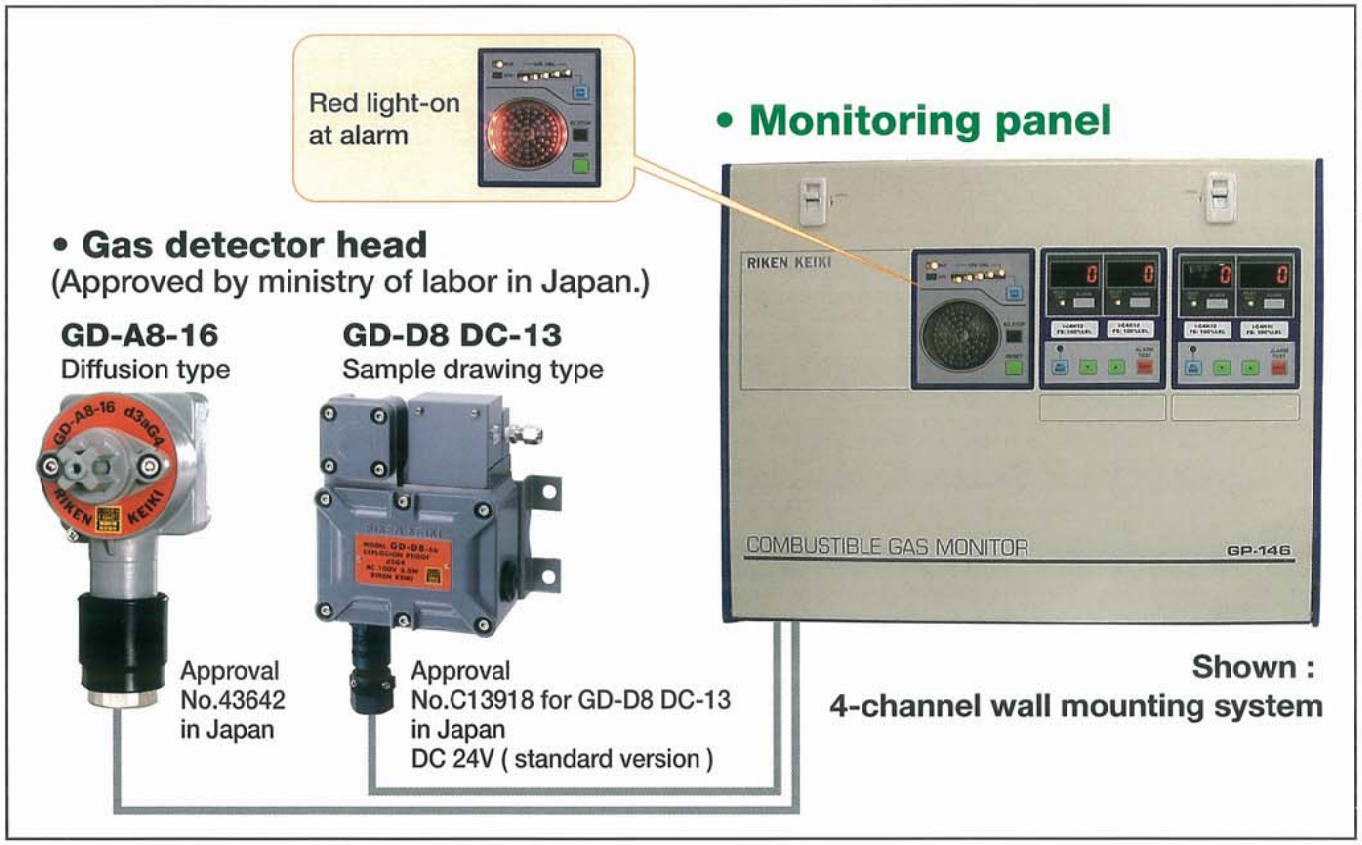
RIKEN

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

ISO 9001 KHK ISO 9000
95QR 007
Object place of business
Tokyo factory, Okegawa factory

ISO 14001 KHK ISO 14000
97ER 005
Object place of business
Tokyo factory

RIKEN FINE RIKEN KEIKI

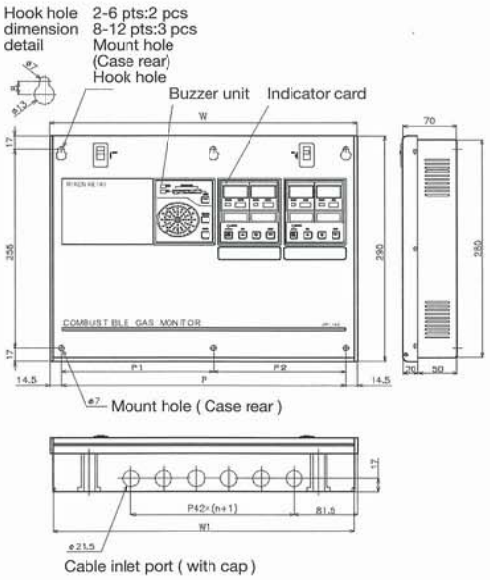
SPECIFICATIONS MODEL GP-146

• 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 ±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 ±10%/AC 200V~240V±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 saparately.

• 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 FINE

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