

RIKEN

SINGLE-CHANNEL COMBUSTIBLE GAS DETECTION AND ALARM SYSTEM

MODEL GP-641A

APPLICATIONS

- LP Gas manufacturing, storage, and consuming facilities.
- Factories using high pressure gas.
- Chemical plants.
- General manufacturing plants.

Indicator/alarm unit



Gas detector head
(Approved by ministry of labor in Japan.)

TYPE GD-A8



Diffusion type

Approval No.43642 in Japan

TYPE GD-D8/GD-D8DC



Sample drawing type

Approval No.38169(GD-D8) in Japan
Approval No.C13918(GD-D8DC) in Japan

FEATURES

- Compact and light weight.
- Digital display(LED) for gas concentration read out.
- Self-diagnostic functions by microprocessor.
- Two alarm levels, trouble alarm
- External output 4-20mA, Relay output
- Maintenance mode function.



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■ Specifications

Specifications for GP-641A

Model	GP-641A		
Detection gas	HC (i-C ₄ H ₁₀) in air (standard) or CH ₄ in air		
Detection principle	Catalytic combustion		
Detection range	0-100% LEL		
Indication	LED (4 digits, 7 segments)		
Alarm accuracy	Within $\pm 25\%$ (at alarm set value) under same condition		
Alarm response time	Within 30 sec at being exposed to the test gas of 1.6 times the alarm value (Same as T60)		
Alarm display (LED lamp)	Power/Trouble : PW/TR lamp	Gas alarm : AL1, AL2 lamp	Maintenance : MAINTENANCE lamp
	Normal (Green/Continuous) Trouble (Green/Blinking)	Normal (Off) 1st : AL1 (Orange/Blinking) 2nd : AL2 (Red/Blinking) After reset (Continuous) /Below alarm set value (Off)	Maintenance mode (Green/Blinking)
Alarm outputs (Standard)	1. Terminal TN2 No. 7-No. 8 : Electrical current transmission 4-20mA DC Gas concentration signal 4-20mA (Linear up to 22mA) Initial clear 2.5mA Maintenance mode 2.5mA Trouble signal 0.5mA, Non-isolated (Load resistance under 300 Ω)		
	2. Terminal TN2 No. 9-No. 10 : Contact output Gas alarm (2nd) Dry contact 1A Latched Automatically recovers after reset Contact capacity 60W or 125VA, MAX 1A load resistance		
Operating condition	Temperature -10°C to +50°C Humidity Below 90%RH (Non-condensing)		
Power requirement	100VAC-220VAC $\pm 10\%$, 50/60Hz (Universal), Power consumption Approx. 10VA		
Size and weight	Approx. 125 (W) \times 215 (H) \times 67 (D) mm, Approx. 1.0kg		
Mounting	Wall mounting (standard) or panel mounting		

* Specification subject to change without notice.

■ Applicable detector head

Model	GD-A8	GD-D8	GD-D8DC
Detection method	Diffusion sampling	Sample drawing with built-in pump	
Operating conditions	-10°C~40°C, below 95% R.H.		
Power requirement	——	100VAC±10%, 50/60Hz (For pump)	24VDC±25% (For pump)
Power consumption	——	Approx 4VA	Approx 5W
Weight	Approx 0.9kg	Approx 4.2kg	
Protection	Explosion proof, approved by Japanese Government.		

Remarks : For further details, please see respective catalog.

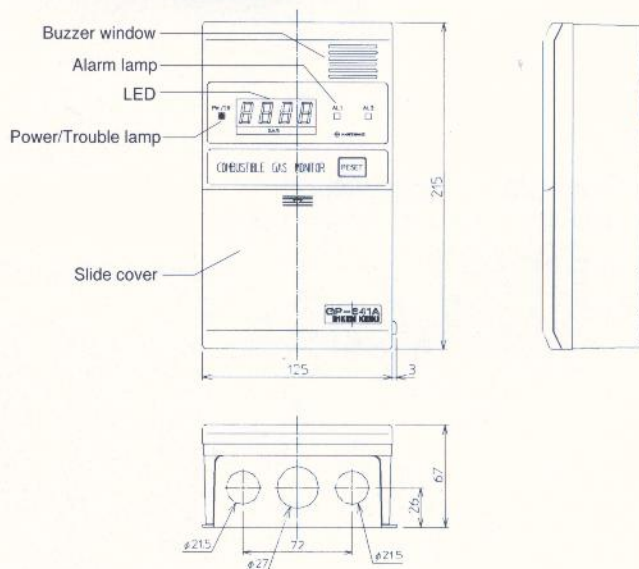
■ Applicable detector head cable & max distance

HC (i-C ₄ H ₁₀)	CVV, 4-core, 2.0 mm ²	500 m
CH ₄ /LNG	CVV, 4-core, 2.0 mm ²	200 m

Note : In case of sample drawing detector head GD-D8, 6-core cable is applied.

OUTER DIMENSIONS

● Wall mounting



● Distributed By:



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