

RIKEN HC 0-100%LEL to 0-100 vol% auto ranging and O₂ 0-25 vol% or
CH₄ 0-100%LEL to 0-100 vol% auto ranging and O₂ 0-25 vol%

PORTABLE COMBINATION HC/O₂ GAS DETECTOR

MODEL **RX-415**

*New gas detector for IGS application !!
HC/O₂ or CH₄/O₂ measurement in N₂
inert and air atmospheres*

Highly accurate and reliable!



Features

- ▶ Available to measure from higher concentration (vol%) to lower concentration (%LEL)
- ▶ Explosion proof (Detector:Explosion proof, Other electrical circuit and pump:Intrinsically Safe design)
- ▶ Available to measure HC/O₂, CH₄/O₂ in N₂, inert gas and air with a reliable NDIR method

Applications

- ▶ Measures gas concentrations in tank of LNG and LPG carriers.
- ▶ Measures gas concentrations in crude oil tankers
- ▶ Measures gas concentration in inert gas generating system (IGS)



RIKEN KEIKI

Highly accurate & reliable

MODEL RX-415

OUTLINE

This model has two versions and is a combination type portable HC/O₂ or CH₄/O₂ gas detector with an Infrared (NDIR) type sensor and galvanic cell type sensor. These sensors provide accurate detection of HC/O₂(HC version) or CH₄/O₂(CH₄ version) levels even in N₂ and other inert environments. The measuring ranges are 0-100%LEL/0-100 vol% for HC or CH₄ and 0-25 vol% for O₂ respectively with automatic ranging. The RX-415 has explosion proof and Intrinsically Safe construction so that it can be used safely in any environment.

SPECIFICATIONS

| Model | RX-415 (HC version) | | RX-415 (CH ₄ version) | |
|---------------------------|---|---------------------------|---|---------------------------|
| | HC | O ₂ | CH ₄ | O ₂ |
| Detection principle | NDIR (Non-Dispersive infrared) | Galvanic cell | NDIR (Non-Dispersive infrared) | Galvanic cell |
| Range | 0-100%LEL (0.5%LEL/digit) 0-100vol%(0.5%vol/digit) (Auto range) | 0-25vol%(0.1vol% / digit) | 0-100%LEL (0.5%LEL/digit) 0-100vol%(0.5%vol/digit) (Auto range) | 0-25vol%(0.1vol% / digit) |
| Response time | Within 30 seconds (T90) | | | |
| Sampling | Suction pump (built in) | | | |
| Ambient temp/humidity | -10°C~+40°C / below 90%RH (Non-condensing) | | | |
| Power source | Alkaline batteries (Size C) 4pcs. (or Ni-Cd batteries (Size C) 4pcs. ...Optional) | | | |
| Continuous operation time | Approx. 40 hours (no alarm or light, at 20°C) | | | |
| Explosion proof | Exiad II BT3 (Alkaline batteries "Size C" only) (Pending) | | | |
| Dimension/weight | Approx. 200(W)×80(H)×142(D)mm/approx. 2 kg (including batteries) | | | |
| Alarm functions | Low battery voltage, Sensor connection failure, Sampling pump connection failure, System failure, Calibration failure (With failure message, alarm lamp and/or alarm buzzer) | | | |
| Feature | Peak hold, Self diagnosis | | | |

• Specifications subject to change without notice.

STANDARD ACCESSORIES

- ① Filter tube with flow monitor1 pce
- ② Connection tube (green)1 pce
- ③ Spiral sampling tube1 pce
- ④ Gas sampling probe1 pce
- ⑤ Carrying case with shoulder strap1 pce
- ⑥ Alkaline battery (size C)4 pcs
- ⑦ Operation manual1 sheet

OPTIONAL ACCESSORIES

- ① Sampling tube (30m)1 pce
- ② Gas sampling bag1 pce
- ③ Ni-Cd battery charger1 pce

Notes : The calibration gas cylinder would be supplied from RKK local agent.



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ISO 9001:2000

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