

**RIKEN**

HC 0-100%LEL to 0-100 vol% auto ranging and O<sub>2</sub> 0-25 vol% or  
 CH<sub>4</sub> 0-100%LEL to 0-100 vol% auto ranging and O<sub>2</sub> 0-25 vol%

# PORTABLE COMBINATION HC/O<sub>2</sub> GAS DETECTOR

**MODEL RX-415**

*New gas detector for IGS application !!  
 HC/O<sub>2</sub> or CH<sub>4</sub>/O<sub>2</sub> measurement in N<sub>2</sub>,  
 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/O<sub>2</sub>, CH<sub>4</sub>/O<sub>2</sub> in N<sub>2</sub>, 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/O<sub>2</sub> or CH<sub>4</sub>/O<sub>2</sub> gas detector with an Infrared (NDIR) type sensor and galvanic cell type sensor. These sensors provide accurate detection of HC/O<sub>2</sub>(HC version) or CH<sub>4</sub>/O<sub>2</sub>(CH<sub>4</sub> version) levels even in N<sub>2</sub> and other inert environments. The measuring ranges are 0-100%LEL/0-100 vol% for HC or CH<sub>4</sub> and 0-25 vol% for O<sub>2</sub> 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 <sub>4</sub> version)	
	HC	O <sub>2</sub>	CH <sub>4</sub>	O <sub>2</sub>
Gas				
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 □ 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 monitor .....1 pce
- ② Connection tube (green) .....1 pce
- ③ Spiral sampling tube .....1 pce
- ④ Gas sampling probe.....1 pce
- ⑤ Carrying case with shoulder strap .....1 pce
- ⑥ Alkaline battery (size C) .....4 pcs
- ⑦ Operation manual .....1 sheet

## OPTIONAL ACCESSORIES

- ① Sampling tube (30m) .....1 pce
- ② Gas sampling bag .....1 pce
- ③ Ni-Cd battery charger .....1 pce

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



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