

RIKEN

C5E-0120

Dual auto range from 0 – 100vol% to 0 – 100%LEL

PORTABLE INFRARED HC GAS DETECTOR

Explosion proof: Approval from Ministry of Labor, Japan
Approval from Nippon Hakuyohin Kentei Kyokai
Japan Maritime Inspecting Organization
OCIMF (Oil Companies International Marine Forum) conformed

MODEL **RI-415**

HC or CH₄ measurement in inert gas

Highly accurate and reliable!



Features

- ▶ Available to measure from higher concentration (vol%) to lower concentration (%LEL)
- ▶ Explosion proof (Detector-explosion proof, other electrical circuit, pump-intrinsically safe design)
- ▶ Available to measure HC or CH₄ in N₂ or inert gas with a reliable NDIR method

Applications

- ▶ Measurement of gas concentration in tank of LNG carriers, LPG carriers
- ▶ Measurement of gas concentrations in crude oil tanker



RIKEN KEIKI

Highly accurate & reliable

MODEL RI-415

OUTLINE

This Model is a portable HC or CH₄ detector with an Infrared (NDIR) type sensor. This sensor style provides accurate detection of HC or CH₄ gas levels even in N₂ and inert environment. The measuring ranges are 0-100 Volume% and 0-100% LEL, with automatic ranging. The RI-415 has explosion proof and Intrinsic safety construction so it can be used safely in any environment.

*When ordering, please specify either HC or CH₄.

SPECIFICATIONS

Model	RI-415	RI-415
Gas	HC	CH ₄
Detection principle	Non dispersive infrared method	
Range	0-100%LEL/0-100vol% (Auto)	
Increment	0.5%LEL/0.5vol%	
Indication accuracy	Within ±5% of reading	
Response time	Within 30 seconds (T90)	
Sampling	Suction pump	
Ambient temp/humidity	-10°C~40°C / below 90%RH	
Power source	Alkaline batteries (Size C) 4pcs	
Continuous operation time	Approx. 50 hours (no alarm/no light at 20°C)	
Explosion proof	Exiad II BT3	
Dimension/weight	200(W)×80(H)×142(D)mm/approx. 2kg (including batt.)	
Additional function	Low battery voltage alarm, Trouble alarm (disconnection of detection cell), Peak hold	

Specifications subject to change without notice.

STANDARD ACCESSORIES

- ① Alkaline battery.....4 pcs
- ② Plastic filter (absorbent cotton).....1 pce
with flow monitor and connection line with couplings
- ③ Sampling line complete with couplings (30m).....1 pce
for LEL range
- ④ Carrying case with shoulder strap.....1 pce
- ⑤ Absorbent cotton.....1 pack
- ⑥ Metal storage box.....1 pce
- ⑦ Calibration kit
 - Gas sampling bag (for LEL range).....1 pce
 - Gas sampling bag (for VOL range).....1 pce

OPTIONAL ACCESSORIES

- ① Calibration gas cylinder for CH₄ LEL
- ② Calibration gas cylinder for CH₄ VOL
- ③ Calibration gas cylinder for HC LEL
- ④ Calibration gas cylinder for HC VOL

* Being supplied from local agent.



A9812



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