

RIKEN

PCE-0200

# PORTABLE INFRARED CO<sub>2</sub> GAS MONITOR

Simple Operation.



## MODEL RI-85

### FEATURES

- Microprocessor controlled.
- Instantaneous, Peak, and Average values provided.
- Compact and lightweight (Approx. 500grs).
- Audible and visual alarms.
- Internal sample drawing pump.
- LCD digital display with backlighting.
- Recorder output signal (0-1V linear).

### MAIN APPLICATIONS:

- Indoor Air Quality CO<sub>2</sub> level testing.
- Safe CO<sub>2</sub> breathing levels in plants or factories.
- Leak checking on CO<sub>2</sub> Fire extinguishing equipment.
- Check before entering after CO<sub>2</sub> extinguisher use.
- Exhaust gas leak from combustion appliances in homes or plants.



RIKEN KEIKI CO.,LTD.

# Highly accurate & reliable Model RI-85

## Outline:

This Model RI-85 is a compact, light-weight portable CO<sub>2</sub> monitor with an Infrared (NDIR) type sensor.

This sensor provides fast and accurate detection of CO<sub>2</sub> levels from 0 to 10,000 ppm. An internal pump is utilized for continual sampling, and the unit operates for 12 hours from one set batteries. Microprocessor control provides average readings over a selected time period, and also can display the peak value detected.



## ■ Specifications

Detection principle	Non-Dispersive Infrared Detection (NDIR)
Measuring gas	Carbon dioxide (CO <sub>2</sub> ) in air
Measuring range	0-10,000 ppm
Resolution	10 ppm/digit from 0-2,000ppm, 25 ppm/digit from 2,000-5,000 ppm, 50 ppm/digit from 5,000-10,000 ppm
Sampling method	Sample-drawing with internal pump
Repeatability	± 3% F.S. (with constant conditions).
Alarm display	Audible and visual alarms (non-latching).
Alarm point	Any one level selection of 1,000 ppm, 5,000 ppm, or OFF
Response time	Within 15 seconds to 90% response.
Ambient temperature and humidity	-10~+40°C, (14-104°F), less than 90%RH (Non-condensing).
Power source	AA size dry battery x 4 pcs.
Continuous operation	Approx. 12 hours (Alkaline batteries, no alarms or no illumination, room temp.).
Dimensions and weight	Approx. 85mm(W) x 190mm(H) x 40mm(D). 500gr. Approx. 3.5"(W) x 7.8"(H) x 1.6"(D). 1.1lb.
Display	Current reading, Average value, or Peak reading. (Pushbutton Select).
Average value time	Selected from 1 minute, 3 minutes, or 15 minutes
External output signal	0-1V DC linear output
Accessories	Carrying case..1, Spiral tube(1m)..1, Gas sampling probe..1 Absorption tube for zero adjust..1, Dry battery..4, Alkaline AA batteries..4
Optional accessories	Gas cylinders for zero and span calibration, sample bag, Absorptive agent for zeroing, jack for external output.

Specifications subject to change without notice



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