

PORTABLE INFRARED CO2 GAS MONITOR

Gas Detection for Life

RI-85 Model



Features

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

Applications

- Indoor Air Quality CO2 level testing
- Safe CO2 breathing levels in plants or factories
- Leak checking on CO2 Fire extinguishing equipment
- Check before entering after CO2 extinguisher use
- Exhaust gas leak from combustion appliances in homes or plants

The model RI-85 is a compact, lightweight portable CO2 monitor with an Infrared (NDIR) type sensor. This sensor provides fast and accurate detection of CO2 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 of batteries. Microprocessor control provides average readings over a selected time period, and can also display the peak value detected.



RIKEN KEIKI

Detection principle	NDIR (Non-dispersive infra-red)	
Measuring gas	Carbon dioxide (CO ₂) in air	
Measuring range	0 - 10,000 ppm	
Resolution	10 ppm / digit from 0-2,000; 25 ppm / digit from 2,000 - 5,000; 50 ppm / digit from 5,000 - 10,000	
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% RH (non-condensing)	
Ambient temp/humidity	-10 ~ +40%, less than 90% RH, non-condensing	
Power source	AA size dry battery x 4	
Continuous operation	Approx 12 hours (alkaline batteries, no alarms or illumination, room temp)	
Dimensions and weight	Approx 85 (W) x 190 (H) x 40 (D) mm, 500g	
Display	Current reading, Average value or Peak reading (pushbutton selection)	
Average time value	Selected from 1 minute, 3 minutes or 15 minutes	
External output	0 - 1V DC linear output	
Standard Accessories	Carrying case Spiral tube (1m) Dry battery (qty 4)	Gas sampling probe Absorption tube for zero adjust Alkaline battery (qty 4)
Optional Accessories	Gas cylinders for zero and span calibration Absorptive agent for zeroing	Sample bag Jack for external output

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