

**RIKEN****COMPACT INFRARED GAS MONITOR****MODEL RI-557****DIGITAL DISPLAY****For the analysis of Carbon monoxide, Carbon dioxide or Methane****Features**

- ▶▶ Large LED digital read-out
- ▶▶ Compact and light weight (Approx. 6kg)
- ▶▶ Dual range standard
- ▶▶ Auto-sampling internal pump
- ▶▶ Rugged design
- ▶▶ Simple to operate
- ▶▶ Recorder output (4-20mA)

**Applications**

- ▶▶ Research and laboratories
- ▶▶ Environmental monitoring in each room
- ▶▶ CO<sub>2</sub> gas control in green houses



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**RIKEN KEIKI**

## Summary

The RIKEN Model RI-557 is a compact, single gas infrared monitor designed to measure one of the specified gas and range for 1) carbon monoxide, 2) carbon dioxide or 3) methane from the gas and range selector chart. The sample gas is drawn into this lightweight and rugged unit by an internal pump and is then analyzed through a Non-Dispersive Infrared Absorption detector. A recorder output is standard to enable convenient and easy recording of your readings. Model RI-557 is powered on AC mains provided with LED digital display to meet the extensive utility such as in automotive, environmental control, laboratories, university laboratory, research institutes and many others.

## Gas and range selector chart

Measuring range (% vol)	0~2	0~5	0~10	0~20	0~50	0~100
High range (vol%)	0.5~2	1~5	2~10	5~20	10~50	20~100
Resolution	0.01	0.025	0.05	0.1	0.25	0.5
Low range (vol%)	0~0.5	0~1	0~2	0~5	0~10	0~20
Resolution	0.005	0.01	0.02	0.05	0.1	0.2
Carbon monoxide (CO)	—	○	○	—	—	—
Carbon dioxide (CO <sub>2</sub> )	○	○	○	○	○	○
Methane (CH <sub>4</sub> )	—	○	—	—	—	—

## Standard accessories    Optional accessories

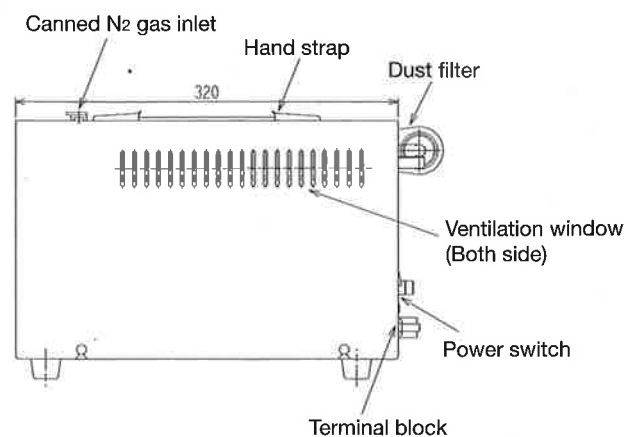
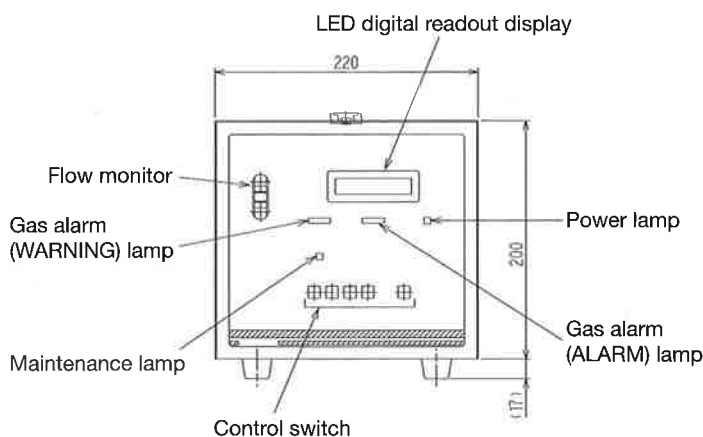
- |                         |   |   |
|-------------------------|---|---|
| 1) Dust filter .....    | 1 | 1) Gas sampling bag                       |
| 2) Fuse (2A) .....      | 1 | 2) Protective dust filter                 |
| 3) Rubber tube          |   | 3) Canned N <sub>2</sub> gas for zero adj |
| (for exhaust use) ..... | 1 | 4) Flame arrestor                         |

## Specifications

Model	RI-557
Detection principle	Non-Dispersive Infrared (N.D.I.R.) method
Measuring gas and range	Refer to the gas and range selector chart (When ordering, specify measuring gas and range)
Sampling method / flow rate	Sample draw by internal pump / flowrate : 0.8~1.2L/min
Gas alarm	Not factory set (standard) / WARNING (AL1), ALARM (AL2) (option)
Gas alarm output	No alarm provided (standard) / alarm contact (option)
Display function	Gas display : LCD display (16 digit)
	Status by LCD and LED lamp POWER (Green), WARNING (Yellow), ALARM (Red), MAINTENANCE (Green)
Self-diagnosis function	System trouble, sensor CNN trouble, zero point fail and flow fail alarm
Trouble alarm output	POWER lamp blinking, trouble display, trouble alarm output
Recorder output	4-20mA (Non-isolated, load resistance max 300 ohm) (standard), 0-1V (option)
Power source / power consumption	AC220V (or AC100V) ±10% 50/60Hz (Specify when ordering power source) Power consumption : 25VA (MAX)
Structure	Non explosion proof
Ambient temp / humidity	0~+40°C, below 90% (Non-condensing)
Dimensions	Approx. 220(W) x 200(H) x 320(D)mm
Weight	Approx. 6kg

Specifications subject to change without notice.

## Component designation



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