

RIKEN

INDOOR CARBON MONOXIDE GAS MONITOR

MODEL EC-500



Built-in sensor

Applications

- Prevent CO poisoning accidents at residential area of iron works and parking garage.

Features

- Compact, wall mounting design
- Highly visible 3 color LED digital display
- Power cable can enter from any direction
- Stores alarm summary data. (10 alarm events, time and alarm concentration)

3 color LED Digital Display



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Specifications

Detection Gas	Carbon monoxide (CO)
Sampling Method	Diffusion
Detection Principle	Electro-chemical cell method
Detection Range	0-150ppm (1ppm / digit)
Display	3 digits, 3 color LED (Green, Orange, Red) Normal : Green
Type of Alarms	Gas Alarm : 2 level alarm (Latched mode / cancelled by reset switch) Trouble Alarm : Sensor connection trouble (Non-latched mode)
Preset Alarm Levels	1 st : 50ppm, 2 nd : 100ppm
Display of Alarm	1 st Gas Alarm : Orange gas reading LED flashes, Orange AL1 LED flashes, Intermittent buzzer sound 2 nd Gas Alarm : Red gas reading LED flashes, Red AL2 LED flashes, continuous buzzer sound Trouble Alarm : Red error message [E-**] flashes (** shows error No.), short term intermittent buzzer sound
Alarm Summary	10 alarm events, time and alarm concentration
Outputs	Gas concentration : 4~20mADC, Trouble alarm : 0.5mA (Max loop load 300 Ω)
Alarm Relays	Normally-open contact for both AL1/AL2, rated 1A at 125V (Resistive load)
Operating Temp. & Humidity	0~40°C, Below 90%RH (non-condensing)
Power Requirement	100VAC 50/60Hz, Max 3.5VA, supplied with power cable(3m) or 24VDC, MAX 2.0W(Optional)
Dimensions	Approx. 95(W)×135(H)×35(D)mm
Weight	Approx. 420g (Approx 220g in case of 24VDC version)
Mounting	Wall mounting type (By using accessory mounting plate or mount in a switch box)

※Specifications subject to change without notice.

CO(PPM)	Human reaction and poisoning
100	No remarkable reaction after breathing in for a few hours.
200	Slight headache is felt after breathing for about 1.5 hours.
400~500	A headache, nausea and dizziness etc are caused after breathing around 1 hour.
600~1000	Fainted down after breathing about 1 to 1.5 hours.
1500~2000	A headache, dizziness, nausea will be severe after breathing for about 30 min to 1 hour and a sense will be lost.
3000~6000	A headache, dizziness and nausea etc will be caused after breathing in a few minutes and it will be dead by exposure for 10 to 30 minutes.
10000	A human sense is lost immediately and it will be dead immediately.

TLV : 50 ppm (Japan industrial hygiene society recommendation)
25 ppm (ACGIH recommendation in USA)



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