

Prevent carbon monoxide poisoning!

Small carbon monoxide monitor

Model **EC-600**

POINT
1

Large and easy-to-read

Three-color
LCD screen

Normal screen (green)



Caution screen (orange)



Danger screen (red)



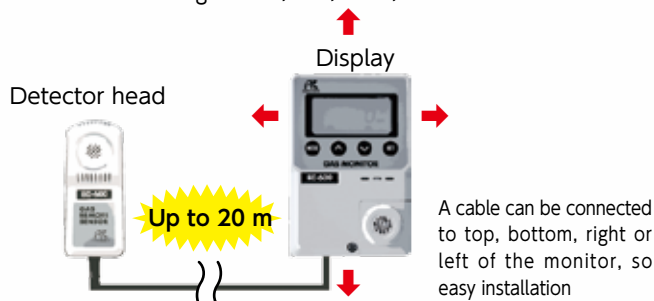
Identifiable detection state
away from the display!



POINT
2

**Up to 20 m of remote sensing
by a remote sensor (optional)**

Install the sensor at a location with possible leakage of
gas and check the concentration in a separate safe area.
Four cable length : 3 m, 5 m, 10 m, 20 m.



POINT
3

Line up of three specifications for power supply

Specifications can be selected for "AC power
supply", "DC power supply" and "dry battery"
depending on the installation place.

2 dry batteries fitting into the monitor require no
extra space.



POINT
4

**Continuous operation for approx. 1 year
with 2 size AA alkaline battery**

* No alarm, backlight off



←Backlight off screen

RIKEN KEIKI Co., Ltd.

Usage

To prevent poisoning at instrument rooms and worksites due to CO gas generated at ironworks and poisoning due to CO gas leakage, etc. in factories, research facilities of universities, etc.

Specification

Model	EC-600		
Power supply specification	100 VAC $\pm$ 10% 50 Hz/60 Hz	24 VDC $\pm$ 10%	2 size AA alkaline battery
Detection principle	Electrochemical type		
Detection method	Diffusion type		
Gas to be detected	CO (carbon monoxide)		
Detection range	0 ~ 150 ppm		
Concentration display	LCD digital 3 digits, resolution 1 ppm (with green backlight)		LCD digital 3 digits, resolution 1 ppm
Alarm setpoint value	1st: 50 ppm 2nd: 100 ppm [standard]		
Gas alarm type	Two-step alarm (H-HH)		
Gas alarm display	1st: Display lights up orange (with orange backlight) / buzzer	Buzzer	
	2nd: Display lights up red (with red backlight) / buzzer		
Gas concentration signal	4 ~ 20 mADC (non-isolated, load resistance 300 Ω or less, including wiring resistance) or 0 ~ 1 VDC (non-isolated)		0 ~ 1 VDC (non-isolated)
Gas alarm contact	Dry contact: 1a or 1b each non latching (auto-reset) or fault alarm pattern Rated load: 125 VAC, 1 A or 30 VDC, 1 A (resistance load)		—
Power consumption	Approx. 5 VA at the maximum	Approx. 3 W at the maximum	—
Range of operating temperature and relative humidity	0 ~ 40° C (no sudden change), below 95% RH (non-condensing)		
Structure	Wall mounting type (sensor integrated or remote sensor type)		
External dimension of main body	Approx. 80(W) $\times$ 120(H) $\times$ 35.5(D) mm (projection portions excluded)		
Weight of main body	Approx. 200 g	Approx. 180 g	Approx. 230 g

*1 For dry battery specification, no green backlight at normal state

*2 For dry battery specification, no alarm contact

Accessories

- 2 round head wood screws for installation
- 2 pan head screws for installation
- 1 AC power source cable 3.2 m
(Note) Included only for AC power supply specification

Optional Accessories

- Remote sensor
Monitor CO leakage continuously at a remote location
(cable length: 3 m/5 m/10 m/20 m)



External dimension
Approx. 40(W) $\times$ 96(H) $\times$ 35.5(D) mm

Weight
Approx. 55 g (excluding cable)

- Mounting plate



- Calibration cap

Attach the cap to sensor part.



Toxicity of Carbon Monoxide on Human

Concentration (unit: ppm)	Toxicity
25	Concentration in the air which is not considered that repeated exposure during normal 8hours workday and a 40hours workweek, TWA allowable concentration recommended by ACGIH, causes health problem for almost all workers
50	Allowable concentration recommended by Japan Society for Occupational Health, concentration that does not cause health problem for 8hours workday
100	Concentration that causes no problem except slight discomfort after 5 to 6 hours of exposure
200	Mild heaviness of the head/headache in more than one hour of exposure
300	Mild heaviness of the head/headache in one hour
400 ~ 500	Mild headache in one hour, moderate poisoning in 3 to 4 hours
600 ~ 700	Mild headache in one hour, moderate poisoning in 2 to 3 hours
1000 ~ 1200	Mild headache in 30 minutes, moderate poisoning in 1 to 1.5 hours
2000	Mild to moderate headache in 30 minutes, sever condition in 1 hour, death in 2 hours
3000	Sever poisoning in 30 minutes, death in 1 hour
4000	Danger or death in 30 minutes
5000	Death in 5 to 10 minutes

Body Design

Downsizing, renovated design, easier to use!

Improved operability by smaller and lighter body, larger display and new up/down buttons



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