

# INDOOR CARBON MONOXIDE GAS MONITOR

## EC-600

RKI's Model EC-600 is an indoor, standalone monitor that detects Carbon Monoxide (CO) with a range of 0-150 ppm with 1 ppm increments. It's sleek, low-profile design is equipped with a unique tri-color display, which changes color as Carbon Monoxide levels reach each alarm level. It is capable of operating with three different power options; 115 VAC, 24 VDC or alkaline batteries. The EC-600 has two preset alarms, and comes ready to operate with a simple wall mount bracket and 10 foot power cord in its AC version. If Carbon Monoxide is present, the user is notified by an audible alarm tone and the multicolored LED digital display.

The EC-600 uses a fast responding low-cost plug-in style electrochemical sensor. This long life sensor is fieldreplaceable with no special tools required. The sensor can also be remotely mounted with an optional remote sensor cable.

### Features

- Operates with or without a controller
- Tri-color visual alarm display: Green=Normal, Yellow=Alarm 1, Red=Alarm 2
- Large easy to read digital display
- Three power options: 115 VAC, 24 VDC, or 2 AA alkaline batteries
- Operates up to 1 year on one set of AA alkaline batteries
- Remote mount sensor cable available
- Compact wall mount design

### Applications

- Iron and steel industry
- Laboratories
- Boiler rooms
- Garages and tunnels
- Vehicle service areas
- Engine testing
- Shipping / receiving docks
- Multi-occupancy residences



Model EC-600 Specifications	
<b>Detection Principle</b>	Electrochemical
<b>Gas Detected</b>	Carbon monoxide (CO)
<b>Detection Range</b>	0 ~ 150 ppm (1ppm / digit)
<b>Display Resolution</b>	1ppm
<b>Sampling Method</b>	Diffusion or remote sampling method with optional sensor extender cable
<b>Indication Accuracy*</b>	+ / - 5% of reading or + / - 2% full scale (whichever is greater)
<b>Response Time*</b>	90% Response within 30 seconds (T90)
<b>Alarm Levels</b>	Two preset alarms (L-H), alarm 1 = 50 ppm, alarm 2 = 100 ppm (other settings available)
<b>Display of Alarm</b>	1st gas alarm: gas concentration reading blinks, flashing AL 1 icon, orange back light, buzzer 2nd gas alarm: gas concentration reading blinks, flashing AL 2 icon, red back light, buzzer
<b>Alarm Logic</b>	Latching or Non-latching (including trouble alarm)
<b>Alarm Contact</b>	Dry contact, normally open or normally closed (default setting is normally open)
<b>Display</b>	Digital LCD (3 digits, 7 segments / Green, Orange, Red) (For Alkaline battery version, the back light will be OFF during normal operation)
<b>Trouble Alarm /Self-Diagnosis</b>	System trouble / sensor connection trouble
<b>Display of Trouble Alarm</b>	Buzzer / flashing of red error message
<b>Relay Contact Rating</b>	125VAC, 1A or 30VDC, 1A (Resistive load)
<b>Approvals</b>	CE marking standard. CSA approval optional (No power cord supplied with AC CSA version)
<b>Output Signal</b>	4 ~ 20mA (Non-isolated, Resistive load under 300Ω) or 0 - 1VDC (Non-isolated) *only for 0 - 1VDC Alkaline battery specification
<b>Extender Cable (optional)</b>	Extender cable with remote box (3 m, 5 m, 10 m, & 20 m lengths available)
<b>Power Sources</b>	(120VAC±10%, 50/60Hz,) 24VDC±10%, or AA alkaline battery (2 each)
<b>Power Consumption</b>	AC specification: MAX 3.5VA, DC specification: MAX 2W
<b>Continuous Operation</b>	1 year (no alarm, no indication for alkaline battery version)
<b>Operating Temperature</b>	0 ~ 104 °F (-17 ~ 40 °C)
<b>Operating Humidity</b>	0 - 90%RH (non-condensing)
<b>Mounting Equipment</b>	Wall mounting type (by using accessory mounting plate or mount at one switch box) Cable inlet: Up, down and left/right, or rear side
<b>Dimension</b>	Body: approx. 3.15"(W) x 4.72"(H) x 1.2"(D) (80(W) x 120(H) x 35.5(D)mm)
<b>Weight</b>	AC specification: approx. 7.05 oz (200g), DC specification: approx. 6.34 oz (180g), Alkaline battery specification: approx. 8.11 oz (230g)
<b>Warranty</b>	One year materials and workmanship