



# STAND ALONE CARBON DIOXIDE GAS MONITOR

LEADERS IN GAS DETECTION

Since 1977

RI-600 Model



## 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
- Power option: 24 VDC
- Remote mount sensor cable available
- Compact wall mount design

## Applications:

- Office Room
- Conference
- Greenhouse
- Classroom
- Brewery

## 3 Colour LED Digital Display



Normal



Warning



Alarm

This carbon dioxide monitor measures carbon dioxide in the air. While displaying measured carbon dioxide concentration on the LCD, the monitor converts it to an analog 4~20mA signal and outputs a gas alarm contact at a gas alarm state when carbon dioxide concentration rises over preset concentration (alarm set point).

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Model RI-600 Specifications	
<b>Detection Principle</b>	Non-Dispersive Infrared (NDIR)
<b>Gas Detected</b>	Carbon dioxide
<b>Detection Range</b>	0-2,000ppm, 0-5,000ppm, 0-10,000ppm 0-2vol%, 0-5vol%
<b>Display Resolution</b>	0~2,000ppm : 1ppm 2,000ppm~10,000ppm : 10ppm 0~2vol% : 0.005vol% 2~5vol% : 0.010vol%
<b>Detection method</b>	Diffusion type
<b>Alarm setpoint value (Standard Setting)</b>	ppm range : 1st 1,000ppm / 2nd 1000ppm 0~2vol% : 1st 1.0vol% / 2nd 1.0vol% 0~5vol% : 1st 2.5vol% / 2nd 2.5vol%
<b>Accuracy</b>	Within $\pm 5\%$ for full scale (to the gas concentration signal output) *Under the same test conditions
<b>Response time</b>	90% response (T90) within 60 seconds *Under the same test conditions
<b>Gas alarm type</b>	Two-step alarm (H-HH)
<b>Gas alarm display</b>	Buzzer / flashing of red error message
<b>Gas alarm pattern</b>	Auto-reset
<b>Gas alarm contact</b>	No-voltage contact 1a or 1b and normally de-energized (energized in response to an alarm)
<b>Trouble Alarm / Self-Diagnoseis</b>	System abnormalities/sensor connection abnormalities
<b>Display of Trouble Alarm</b>	Alarm detail display and backlight blinking (orange), buzzer
<b>Fault alarm pattern</b>	Auto-reset
<b>Contact capacity</b>	125 VAC - 1A or 30 VDC - 1 A (resistance load)0 VAC $\pm 10\%$ (50/60 Hz) or, 24 VDC $\pm 10\%$
<b>Transmission Specification</b>	4~20 mA DC
<b>Power supply</b>	100 VAC $\pm 10\%$ (50/60 Hz) or, 24 VDC $\pm 10\%$
<b>Power Consumption</b>	AC specification: Max. 6VA DC specification: Max. 4W
<b>Initial clear</b>	Approx. 25 seconds
<b>Warm-up time</b>	Approx. 30 minutes
<b>Operating Temperature</b>	0~40°C (At a constant conditions)
<b>Operating Humidity</b>	Below 90%RH (Non-condensing)
<b>Structure</b>	Wall mounting type
<b>Dimension</b>	Approx. 80 (W) x 120 (H) x 35.5 (D) mm
<b>Weight</b>	AC specification: Approx. 200g DC specification: Approx. 180g

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