RI-600

Stand Alone Carbon Dioxide Gas Monitor

· **Operates with or without a controller**

· **Tri-colour visual alarm display:**
   Green=Normal, Yellow=Alarm 1, Red=Alarm 2

· **Large easy to read digital display**

· **Operates on 24 VDC**

· **Remote mount sensor cable available**

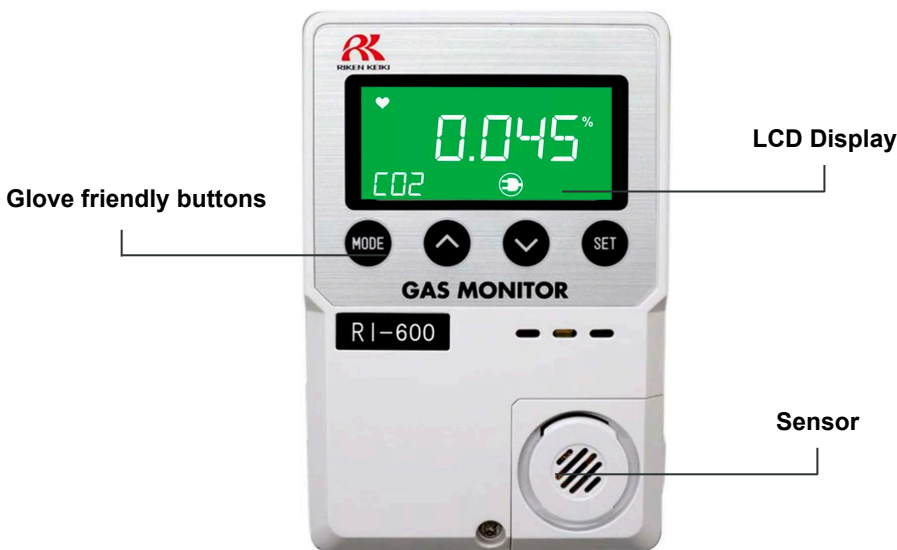· **Compact wall mount design**

OVERVIEW

The model RI-600 measures carbon dioxide in the air. The RI-600 displays the measured carbon dioxide concentration on the LCD. If a high level of CO2 is present, the user is notified by an audible alarm tone and the multicolored LCD digital display.

The monitor outputs an analog 4~20mA signal and gas alarm relay contacts open or close when the carbon dioxide concentration rises above preset alarm set point.

APPLICATIONS

• Brewing Tanks
• Filler Machines
• Storage Tanks
• Bag & Box Rooms
• Indoor Air Quality
• Greenhouse

Glove friendly buttons

LCD Display

Sensor

CO2

Brisbane Office:
1/3 Deakin Street
Brendale QLD 4500
Ph: 07 3481 9000

Perth Office:
5/30 Enterprise Crescent
Malaga WA 6090
Ph: 08 6184 7840

Representatives/Offices In
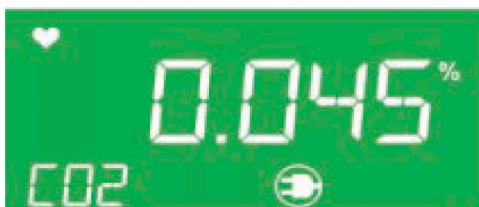Sydney   Melbourne
Hobart   Adelaide
Auckland   Wellington

sales@controlequipment.com.au   www.controlequipment.com.au

Detection principle	Non-Dispersive Infrared (NDIR)				
Gas detected	Carbon Dioxide				
Detection range	0 - 2,000 ppm	0 - 5,000 ppm	0 - 10,000 ppm	0 - 2% Vol.	0 - 5% Vol.
Display resolution	0 - 2,000 ppm: 1 ppm	0 - 2,000 ppm: 1 ppm 2,000 - 10,000 ppm: 10 ppm		0 - 2% Vol.: 0.005% Vol.	0 - 2% Vol.: 0.005% Vol. 0 - 5% Vol.: 0.010% Vol.
Alarm points (adjustable)	1st: 1,000 ppm 2nd: 2,000 ppm	1st: 1,000 ppm 2nd: 5,000 ppm	1st: 1,000 ppm 2nd: 5,000 ppm	1st: 0.5% Vol. 2nd: 2.0% Vol.	1st: 0.5% Vol. 2nd: 3.0% Vol.
Sampling method	Diffusion				
Indication accuracy	Within ±5 % of full scale (to the gas concentration signal output)				
Response time	90% response (T90) within 60 seconds				
Gas alarm type	Two-step alarm (H-HH)				
Alarm display	First: Backlight LED is orange, buzzer Second: Backlight LED is red, buzzer				
Alarm pattern	Auto-reset				
Alarm contact	No-voltage contact 1a or 1b and normally de-energized (energized in response to an alarm)				
Display	LCD digital display (Five - digit, seven segment / green, orange and red backlight) *No backlight by standard setting				
Trouble alarm / self-diagnosis	System abnormalities / sensor connection abnormalities				
Trouble alarm display	Backlight LED flashes orange, buzzer *No backlight and no buzzer by standard setting				
Trouble alarm pattern	Auto-reset				
Relay contact rating	125 VAC - 1A or 30 VDC - 1 A (resistance load) 0 VAC ±10% (50/60 Hz) or, 24 VDC ±10%				
Approval	CE marking standard				
Output signal	4~20 mA DC (no-insulation/load resistance under 300 Ω)				
Power sources	24 VDC ±10%				
Power consumption	AC specification: Max. 6VA DC specification: Max. 4W				
Operating temperature	32 ~ 104°F (0 ~ 40oC) (At a constant conditions)				
Operating humidity	Below 90% RH (Non-condensing)				
Mounting equipment	Wall mounting type (by using accessory mounting plate or mount at one switch box) Cable inlet: Up, down and left/right, or rear side				
Dimension	Body: approx. 3.15"(W) x 4.72"(H) x 1.2"(D) (80(W) x 120(H) x 35.5(D)mm)				
Weight	AC specification: approx. 7.05 oz (200g), DC specification: approx. 6.34 oz (180g)				
Warranty	One year materials and workmanship				

Specifications subject to change without notice

3 COLOUR LED DIGITAL DISPLAY

Normal

Warning

Alarm