## Features

- **Operates with or without a controller**
- **Long life NDIR sensor**
- **Large easy to read digital display**
- **Two power options: 115 VAC, 24 VDC**
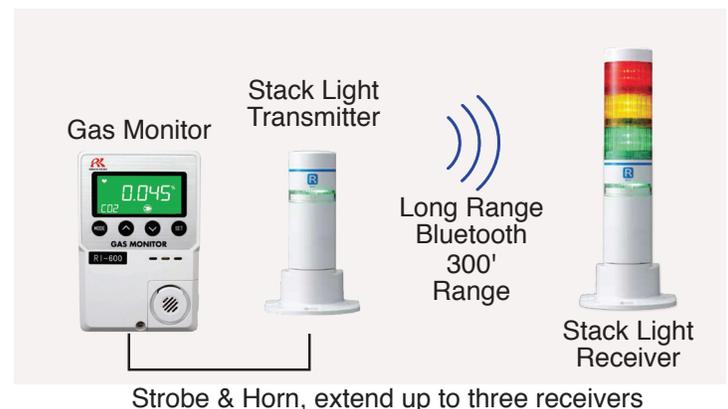- **Compact wall mount design**
- **Tri-color visual alarm display:**

0.045 % CO2
Green=Normal

2.500 % CO2
Yellow=Alarm 1

4.500 % CO2
Red=Alarm 2

## Applications

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

RKI's 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 $CO_2$ 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.

The Model RI-600 applies Non-Dispersive Infrared Ray Absorption (NDIR) technology to detect $CO_2$.

Wireless strobe lights and horns are available for remote alarm indication (as pictured on the right).

Gas Monitor

Stack Light Transmitter

Long Range Bluetooth 300' Range

Stack Light Receiver

Strobe & Horn, extend up to three receivers

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## Model RI-600 Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Detection Principle** | Non-Dispersive Infrared | | | | |
| **Gas Detected** | Carbon dioxide (CO2) | | | | |
| **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<br>2,000 - 10,000 ppm: 10 ppm | | 0 - 2% Vol.: 0.005% Vol. | 0 - 2% Vol.: 0.005% Vol.<br>0 - 5% Vol.: 0.010% Vol. |
| **Alarm Points** *(adjustable)* | 1st: 1,000 ppm<br>2nd: 2,000 ppm | 1st: 1,000 ppm<br>2nd: 5,000 ppm | 1st: 1,000 ppm<br>2nd: 5,000 ppm | 1st: 0.5% Vol.<br>2nd: 2.0% Vol. | 1st: 0.5% Vol.<br>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<br>Second: Backlight LED is red, buzzer | | | | |
| **Alarm Pattern** | Auto-reset | | | | |
| **Alarm Contact** | No-voltage contact 1a or 1b and normally de-energized<br>(energized in response to an alarm) | | | | |
| **Display** | LCD digital display (Five - digit, seven segment / green, orange and red backlight)<br>*No backlight by standard setting | | | | |
| **Trouble Alarm / Self-Diagnosis** | System abnormalities / sensor connection abnormalities | | | | |
| **Trouble Alarm Display** | Backlight LED flashes orange, buzzer<br>*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** | 110 VAC ±10% (50/60 Hz) or 24 VDC ±10% | | | | |
| **Power Consumption** | AC specification: Max. 6VA<br>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)<br>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*



**INSTRUMENTS**

## Authorized Distributor: