

Monitor CO₂ to ensure Indoor Air Quality

CO₂ and Temperature Monitor

- Cost – effective CO₂ monitors made with IR-SOC technology
- Dual Beam NDIR technology to improve the long term stability
- The Alarm mode will sound at 1000 PPM or adjust the Alarm level
- 3 LED displays show the current Indoor Air Quality
- Measure CO₂, temperature and the relative humidity
- Built-in datalogger to record CO₂ and Temperature in the past 24 hours
- Several Modes for adjusting the setting parameters

+RH



ZG1163R



Time Weighted Average exposure Limit < 8 Hours



Adverse health effects expected



General drowsiness



Complaints of stiffness and odors

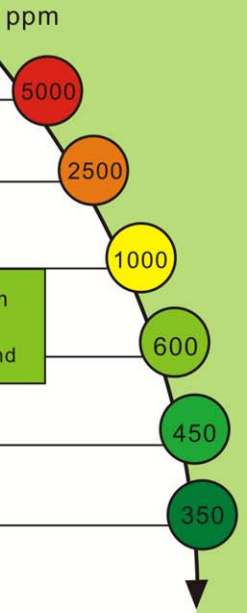


Acceptable level



Healthy, normal outside level

< 1000 ppm
ASHRAE
Recommend



School/ Office



Home



Restaurant/
Movie theater



Hypermarket/
Shopping
mall



Fitness
center

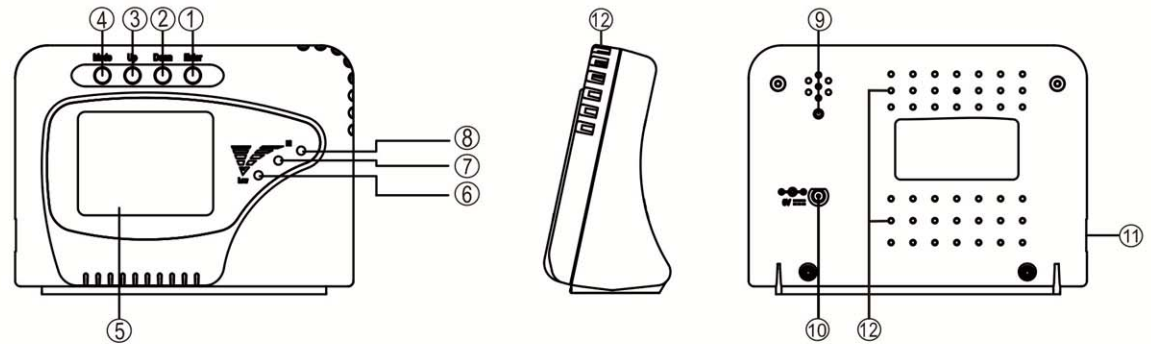
Features

- Dual Beam NDIR(Non-Dispersive-Infrared) technology used to measure CO₂ concentration
- 3 LED displays show the current Indoor Air Quality situation
 - < 800ppm
 - 800~1200ppm
 - > 1200ppm
- Independent CO₂, Temperature readings and RH
- Calculates and Displays Ventilation Rates
- Sample Method - Diffusion or flow through (50 ~200 ml/min)

Specifications

Performance- CO₂

Measurement Range	0 ~ 3,000ppm
Resolution	1ppm at 0~1,000ppm; 5ppm at 1,000~2,000ppm; 10ppm at 2,000~3,000ppm
Accuracy	0~2,000ppm: ±70 ppm or ±5% of reading, whichever is greater ; over 2000ppm: ±7%
Repeatability	±20 ppm @ 400ppm
Temperature Dependence	±0.2% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C
Pressure Dependence	0.13% of reading per mm Hg (Corrected via user input for altitude)
Response Time	About 2min for 63% of step change
Warm-Up Time	<60 seconds at 22°C
Zone LED Display	Green:<800ppm; Yellow:800~1200ppm; Red: >1200 ppm (adjustable)
Power Supply	6 VDC from external AC/DC adapter which is included in package (Use specified AC adapter only)
DC Output voltage	6 VDC
AC Input voltage & Frequency	100 ~ 240 VAC 50 / 60 Hz



General Operating Conditions

Operating Temp.	0 ~ 50°C (32 ~ 122°F), 0 ~ 95% RH non-condensing
Storage Temp.	-20 ~ 60°C (-4 ~ 140°F)

Temperature Specification

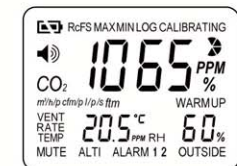
Temperature Range	0 ~ 50°C (32 ~ 122°F) display
Display Resolution	0.1°C (0.1°F)
Display Options	°C/°F
Accuracy	±1°C (±2°F) When the fan blows to the device directly, the accuracy of temperature is ±1.5°C
Response Time	20-30 minutes (case must equalize with environment)

RH Specification

Measurement Range	20%~90%
Display Resolution	1% RH
Accuracy	±5%RH@23°C
Response Time	< 5mins for 63% of step change

Specifications are subject to change without notice

1. Enter Button	6. Green LED Display
2. Down Button	7. Yellow LED Display
3. Up Button	8. Red LED Display
4. Mode Button	9. Gas Entry Hole
5. LCD Display	10. Power Inlet
11. RJ45 socket (only for factory use)	
12. Ventilation Slots	



(Display Features and Modes)

INNOVATION
RADIANT

1F, No.3, Industrial E. 9th Rd., Science-Based Industrial Park, HsinChu, Taiwan 300,
TEL:+886-3-6111666 or 5644 185 FAX:+886-3-5644 170
<http://www.ZyAura.com> E-mail:Info@ZyAura.com
<http://www.ZyTemp.com> E-mail:Market234@ZyTemp.com
<http://www.radiantek.com.tw> E-mail:MKT@radiantek.com.tw