

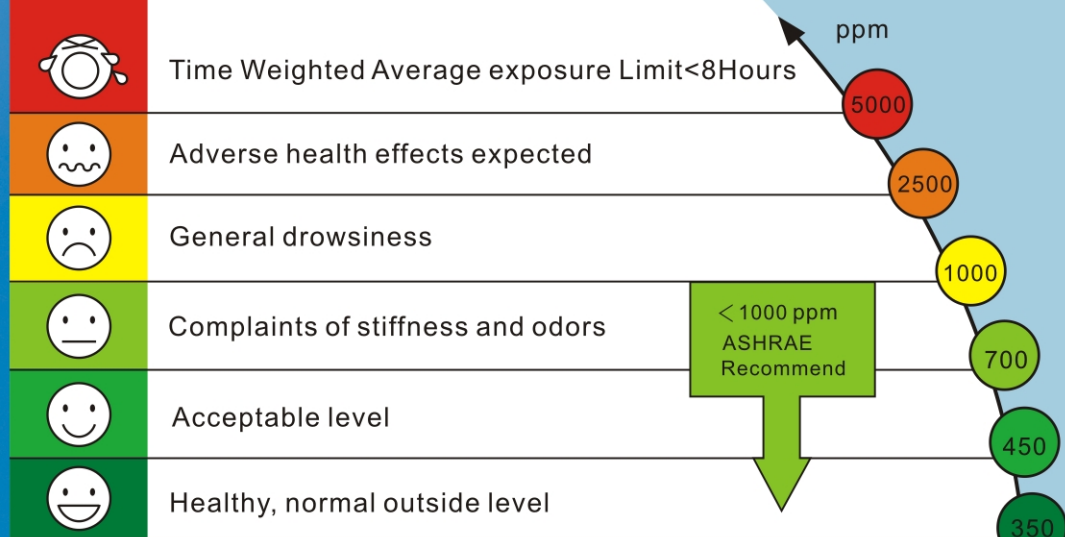
# Monitoring CO2 to ensure Indoor Air Quality

## Wall Mount CO2 Monitor use in Indoors or relay to HVAC system for Energy Saving

- NDIR ( Non-Dispersive-Infrared) technology used to measure CO<sub>2</sub> concentration.
- 3 LED display show the current Indoor Air Quality situation.
- The visual and audible alarm function can be adjustable by user.
- Voltage(0~10V) ,Current Loop and Relay output.
- Reliable Sensor provides long-term calibration stability.



ZGw08VRC series  
ZGw08PR series



School/ Office



Home



Restaurant/  
Movie theater



Hypermarket/  
Shopping mall

## ZGw08VRC/ ZGw08PR: Wall mount CO<sub>2</sub> monitor

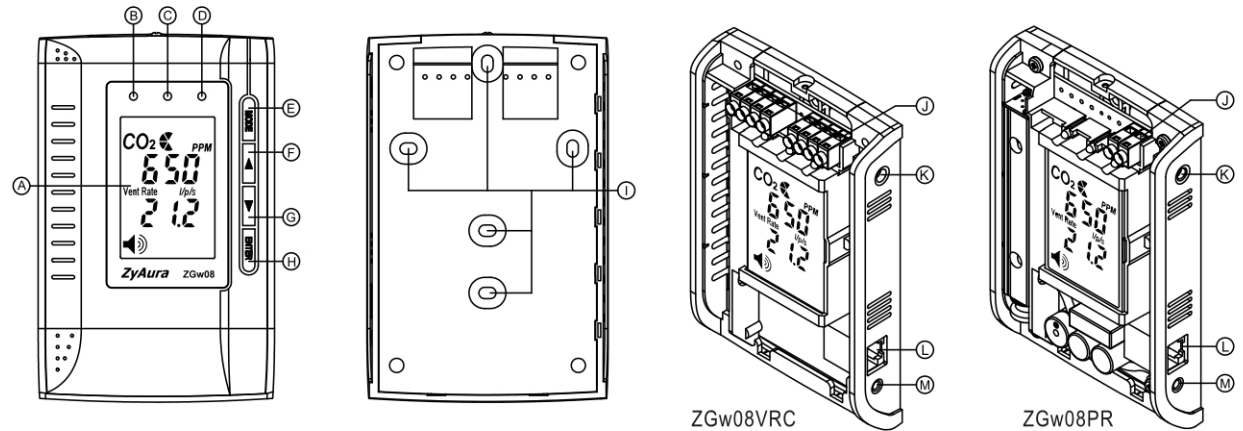
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- Reliable Sensor provides long-term calibration stability.
- Mounting bracket with terminal block provides quick easy installation.

### Specifications

- Method - NDIR
- Sample Method -Diffusion or flow through (50 ~200 ml/min)
- 3 LED Display
  - < 800ppm
  - 800~1200ppm
  - > 1200ppm
- Buzzer Alarm : 70dB@10 cm

#### ■ Performance- CO<sub>2</sub>

Measurement Range	ZGw08VRC ZGw08PR	0 ~ 3,000ppm
Resolution	1ppm at 0~1,000ppm; 10ppm at 1,001~3,000ppm	
Accuracy	±75 ppm or ±5% of reading whichever is greater	
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	<2min for 90% of step change	
Warm-Up Time	<60 seconds at 22°C	



#### ■ Outputs

##### Relay Output

30VDC or 250VAC, max 2A., SPST. Normal Open

**RS232** (Baud Rate 19200)

ZGw08VRC series only

**Linear Voltage Output** 0 ~ 10VDC

**Linear Current Loop Output** 4 ~ 20mA (Max Load is 500 Ohm)  
(Max Load is 400 Ohm while power supply <20 VDC)

#### ■ Power Supply Type

ZGw08VRC: 18~26VAC or 18~36VDC

ZGw08PR: 6VDC from external AC/DC adapter

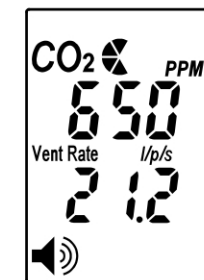
#### ■ General Operating Conditions

**Operating Temperature** : 0 ~ 50°C (32 ~ 122°F)

**Operating Humidity Range** : 0 ~ 95% RH non-condensing

**Storage Temperature** : -20 ~ 60°C(-4 ~ 140°F)

A. Main LCD Display	I. Screw Position
B. Green LED Display	J. Terminal Block (ZGw08VRC)
C. Yellow LED Display	Terminal Block for RelayOutput (ZGw08PR)
D. Red LED Display	K. Power Inlet (6VDC)(ZGw08VRC)
E. Mode Button	Power Inlet for AC adapter (6VDC)(ZGw08VRC)
F. Up Button	L. RJ45 Socket ,including the RS232.
G. Down Button	And Analogue output for ZGw08VRC
H. Enter Button	M. Gas Entry Hole



(Display Features and Modes)