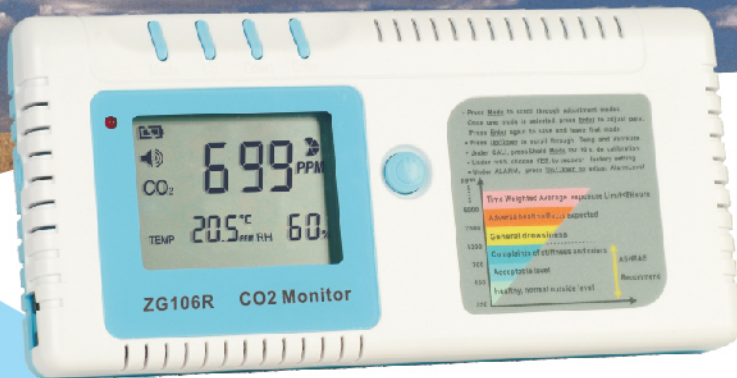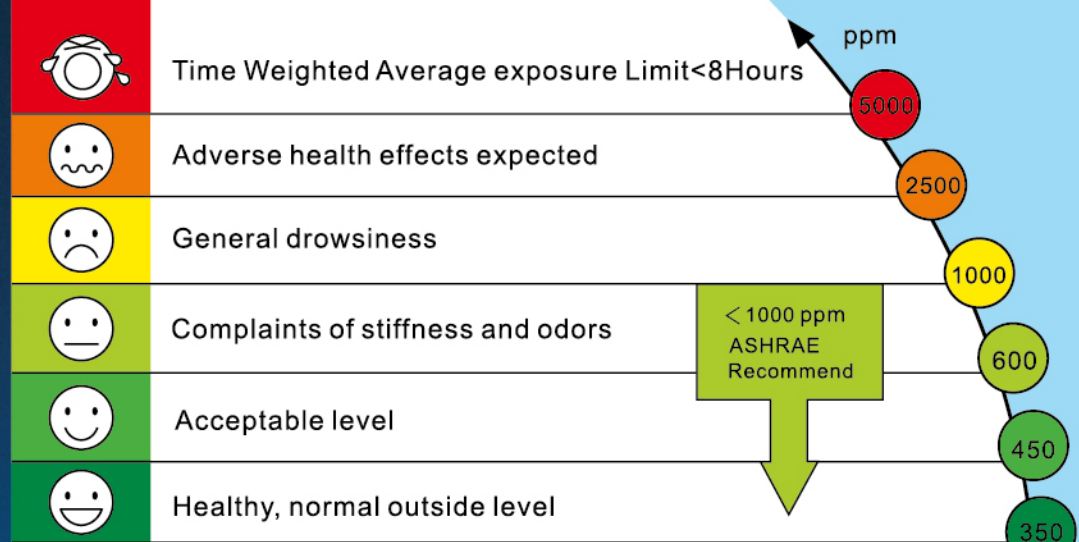# Monitor CO2 to ensure Indoor Air Quality

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
- Measure CO2, temperature and the relative humidity (ZG106R only)
- Several Modes for adjusting the setting parameters
- Desktop / Portable CO2 Monitor

ZG106R **+RH**

699 PPM
CO2
TEMP 20.5℃ RH 60%

ZG106R   CO2 Monitor

ZG106 SERIES

ppm		
Time Weighted Average exposure Limit<8Hours	5000	
Adverse health effects expected	2500	
General drowsiness	1000	
Complaints of stiffness and odors	600	
Acceptable level	450	
Healthy, normal outside level	350	

< 1000 ppm ASHRAE Recommend

Station / Exhibition

Shopping mall

School / Office

Metro / Bus / Train

Restaurant Home

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Monitor the invisible

ZG106 is a portable, accurate handheld CO2 monitor. In addition to measuring the CO2 concentration, this device can also measure CO2, temperature and the relative humidity (ZG106R only).
It uses Dual Beam NDIR technology to improve the long term stability.

Specifications

Dual Beam NDIR(Non-Dispersive-Infrared) technology used to measure CO2 concentration

Independent CO2, Temperature readings and RH(ZG106R only)

Calculates and Displays Ventilation Rates

Sample Method -Diffusion or flow through(50 ~200 ml/min)

■ Performance - CO2

Measurement Range	ZG106/ ZG106R 0~3,000ppm	ZG106A-M 0~10,000ppm
Resolution	1ppmat 0~1,000ppm 5ppmat 1,001~2,000ppm 10ppmat 2,001~3,000ppm	1ppmat 0~1,000ppm 5ppmat 1,001~2,000ppm 10ppmat 2,001~4,000ppm 20ppmat 4,001~6,000ppm 40ppmat 6,001~10,000ppm
Accuracy	ZG106R: 0~2,000ppm: ±70 ppm or ±5% of reading, whichever is greater; over 2000ppm: ±7% ZG106/ ZG106A~M: ±50 ppm or ±5% of reading	
Repeatability	±20 ppm @ 400ppm	
Temperature Dependence	ZG106R: ±0.2 % of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C ZG106/ ZG106A~M: ±0.1 % 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	

■ General Operating Conditions

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

■ Temperature Specification

Temperature Range	0°C to 50°C (32°F to 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 degC
Response Time	20-30 minutes (case must equalize with environment)

■ Outputs (Except ZG106R)

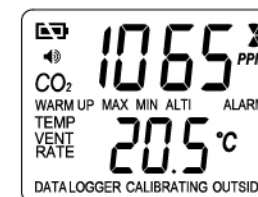**OC:** Normally Low,100mA max.@24VDC.Adjustable set point, factory setting is 1000ppm,hysteresis is 50ppm

■ Power Supply

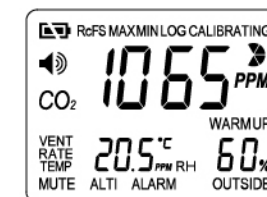| Battery type	Alkaline, AA* 4 (80 hours)
External	ZG106R: 100 ~ 240 VAC 50 / 60 Hz 6 VDC from external AC/DC adapter which is included in package (Use specified AC adapter only) ZG106/ ZG106A~M: 6 VDC from external AC/DC adapter which is included in package (Use specified AC adapter only)

■ RH Specification (ZG106R only)

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

ZG106/ ZG106A-M

ZG106R

（Display Features and Modes）

1.	Power Button	8.	Function Label
2.	Enter Button	9.	Gas Entry Hole
3.	Down Button	10.	Power Inlet
4.	Up Button	11.	RJ45 Socket
5.	Mode Button	12.	Housing Stand
6.	LCD Display	13.	Battery Cover
7.	LED Light	14.	AA Batteries*4

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