

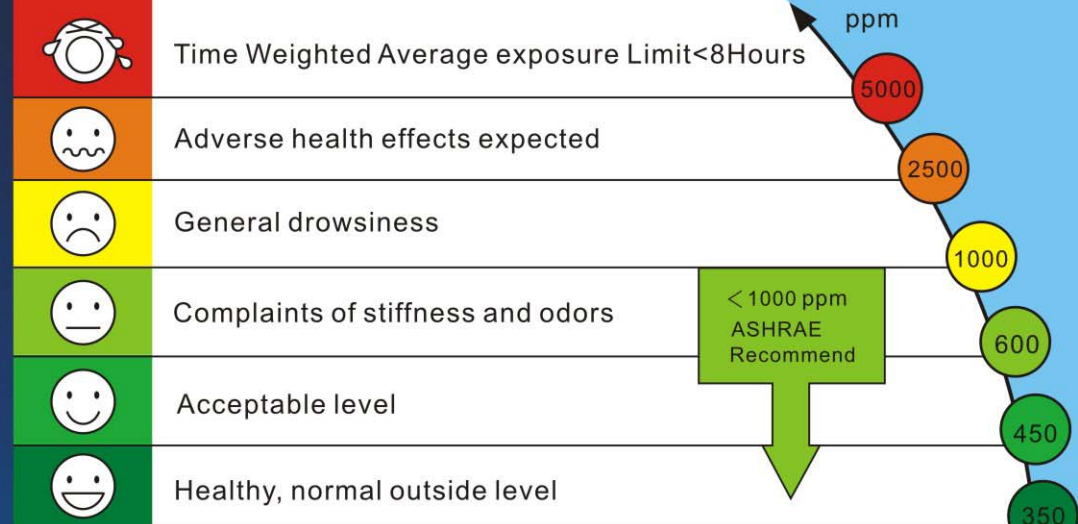
Monitor CO₂ to ensure Indoor Air Quality

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



ZG106 SERIES



Station / Exhibition



Shopping mall



School / Office



Metro / Bus / Train



Restaurant Home

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

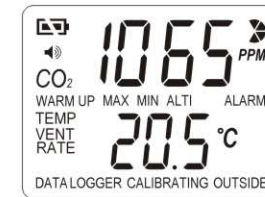
Power Supply

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

ZyAura
Monitor the invisible

1F, No.3, Industrial E. 9th Rd., Science-Based Industrial Park, HsinChu, Taiwan 300, R.O.C.

TEL:+886-3-6111666 or 5644185 FAX:+886-3-5644170

<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