

ZG-106 - CO₂ and Temperature Monitor

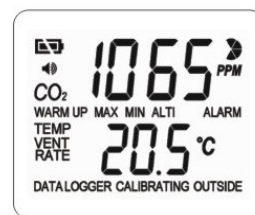


- ❖ Long-Life NDIR Sensor
- ❖ CO₂ measurement upto 10000ppm
- ❖ Temperature Range: 0 to 50°C
- ❖ Max / Min. Mode
- ❖ Alarm Mode
- ❖ Logs upto 48 readings at 30 min. Interval
- ❖ Calculates & Displays ventilation rates
- ❖ Battery Life typically 80 hrs. 4 x AA
- ❖ Supplied with Mains Adapter
- ❖ Fitted with tilt stand for ease of use

Applications: Offices, Hospitals, Hotels, Shopping Malls, Theatres, Fitness Centres, Public Transport Stations, Exhibition Halls, Food Processing & Farming, Greenhouses, Underground Construction, Winyards, etc.



ZG-106 is a low-cost, portable, accurate hand-held CO₂ monitor with LCD display, which can be put on desktop also to monitor CO₂ concentration, ambient atmosphere and efficiency of air ventilation in offices, public buildings, commercial centres and other locations where indoor air quality is important. **ZG-106** uses NDIR technology to improve the long-term stability. It has several built-in modes to help one understand the ambient air quality.



(Displayer Features and Modes)

How Indoor CO₂ density influences us

350 – 450 ppm	Healthy, Normal Outside Air Level
450 – 700 ppm	Feel fresh, Good air exchange
700 – 1000 ppm	Complaints of Stiffness and Odors
1000 – 2500 ppm	Complaints of Drowsiness and Poor Air
2500 – 5000 ppm	Possible Headaches; Sleepiness; Stagnant, Stale, Stuffiness Air; Poor concentration; Loss of Attention; Increased Heart Rate; and Slight Nausea
> 5000 ppm	Exposure may lead to serious oxygen deprivation resulting in permanent brain damage, coma and even death

Technical Specifications

	CO ₂ via NDIR Sensor		Temperature
Measurement Range	0 – 3000 ppm display	0 – 10000 ppm display	0-50°C / 32-122°F
Display Resolution	1 ppm at 0-1000 ppm; 5 ppm at 1000-2000 ppm; 10ppm at 2000-3000 ppm; Over 3000 ppm displays shows “Hi”	1 ppm at 0-1000 ppm; 5 ppm at 1000-2000 ppm; 10 ppm at 2000-4000 ppm; 20 ppm at 4000-6000 ppm; 40 ppm at 6000-10000 ppm	0.1°C / 0.1°F
Accuracy	± 50 ppm, or ± 5% of reading		± 1°C / ± 2°F
Repeatability	± 20 ppm		
Warm-up Time	< 60 secs. at 22°C		
Response Time	< 2 min for 63% of step change		20 – 30 min (case must equilibrate with environment)
Outputs	- OC: Normally Low, 100mA max @ 24VDC 1 RJ-45 Connector digital output in RII protocol - Graphic Software (under development)		
Power Source	Alkaline Battery: 4 x AA (80 hrs.) External AC/DC Adapter: 6VDC		
Calibration Interval	12 months		
Operating Conditions	0 - 50°C, 0 - 95% RH non-condensing		
Weight	273.6 gms. (including batteries)		
Dimensions	H x L x D : 165 x 81.1 x 24.3 in mm		

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