Mini CO2 Monitor User Manual

Product Overview

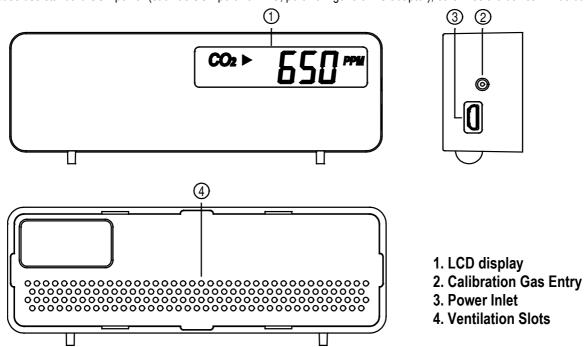
Thank you for selecting ZGm05 desktop CO₂ monitor, ZGm05 CO₂ monitor is a mini style, it is smart, compact and easy-to-use. In addition to measuring the CO₂ concentration, ZGm05 can also measure the ambient temperature **(CO2+Temp)**. This product is developed to detect the presence of CO₂ in ambient air and help people to take care of Indoor Air Quality. ZGm05 can be widely used in the office building, school, exhibition hall, shopping mall, meeting room, fitness center, restaurant and other public places where personal comfort and health is important.

Features:

- ☑ It uses dual beam NDIR technology to improve the long term stability
- ☑ A mini desktop CO2 Monitor

Warnings:

- ☐ This CO2 monitor is for home use, not suitable for certifying the test results.
- ☐ Please use standard USB power (such as USB port from PC, port from general AC adapter), otherwise the device will be damaged.



MEMC/RFI

Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

Warm-Up Time: About 60 seconds.



- About 60 seconds warm-up time when first time power.
- 2. The LCD shows 5 digits in accordance with the order of 5~1 during warm-up.
- 3. The device shows CO2 and Temp reading simultaneously after above 5 digits disappear

Notes: The display time of Temp and CO2: 15sec, 5 sec.

Caring for product

To ensure you receive the maximum benefit from using this product, please observe the follow guidelines.

- 1. Cleaning—Disconnect the power before clean. Use a damp cloth, do not use the liquid cleaning agent, such as benzene, thinner or aerosols.
- 2. Repair----Do not attempt to repair the product or modify the circuitry by yourself. Please contact with the local dealer or a qualified repairman if the product needs servicing.
- 3. Air diffusion—The ventilation slots on the housing are designed for CO2 diffusion, so these ventilation slots should not be blocked.

SPECIFICATIONS

Method - dual beam NDIR

Display - LCD Independent CO2 and Temperature readings

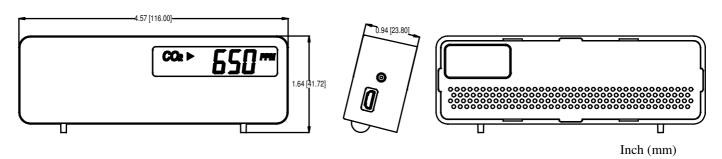
Sample Method - Diffusion

CO2 & Temperature Specification:

CO2 Specification:		
Measurement Range	0-3,000 ppm display	
Display Resolution	1ppm at 0~1,000ppm; 10ppm at 1,001~3,000ppm	
Accuracy	0~2,000ppm: ±100ppm or ±7% of reading, whichever is greater; over 2000ppm: +/-10%	
Repeatability	±20 ppm	
Temperature Dependence	Typ.±0.3% of reading per °C or ±4 ppm per °C, whichever is greater, referenced to 25°C	
Response Time	About 2 min for 63% of step change	
Warm-Up Time	About 60 seconds	
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	±1.5°C(±2°F)	
Response Time	20~30min(device must equilibrate with environment)	
Operating Conditions:		
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Storage Conditions:		
Storage Temperature	-10°C to 60°C(14°F to 140°F)	
ower Supply:		
Power Supply	USB or 5 VDC AC/DC adapter, which is not included in package (Please use Standard USB power) DC output range: 5VDC/ 300mA	

Notes: CO2 monitor Power consumption: peak current is 200mA. Average current is about 20mA

Dimension



Fault Codes & Troubleshooting Guide

This section includes a list of Frequently Asked Questions for problems you may encounter with the ZGm053 (U) CO2 Monitor.

Fault Icon	Description of the fault	Suggested Actions
[Err3]	The ambient temperature has exceeded the operating temperature range 0°C to 50°C (32°F to 122°F)	This error will clear when the temperature returns to the range between 0°C to 50°C (32°F to 122°F).
Err5 - Err5	EEPROM System Problem	Please power on ZGm05 again If the "Err5, Err6" still appears, please contact the Service Department for further assistance.
Frr9	The voltage of USB power is too low, the device does not work	This error will clear when user replaces standard USB power.



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