

Mini CO2 Monitor User Manual

Product Overview

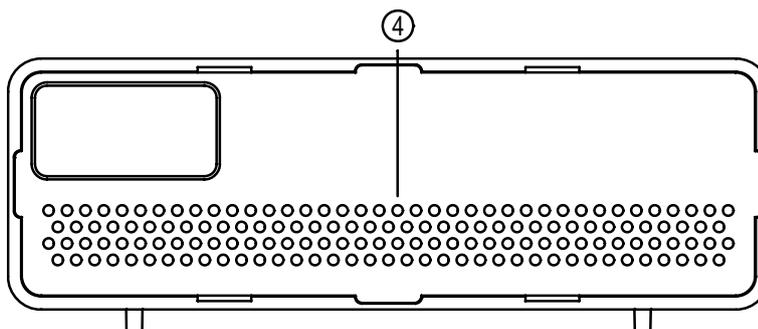
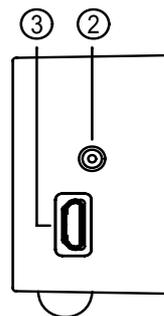
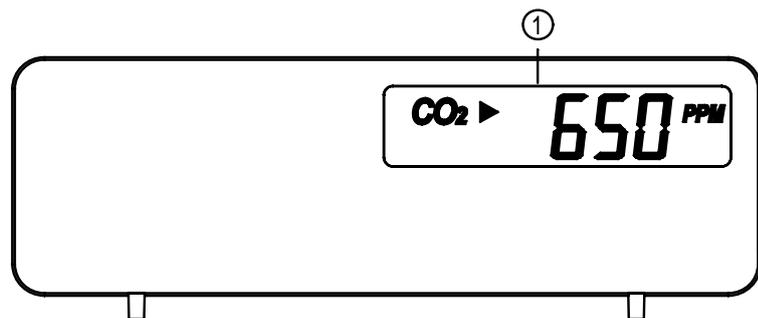
Thank you for selecting ZGm05 desktop CO2 monitor, ZGm05 CO2 monitor is a mini style, it is smart, compact and easy-to-use. In addition to measuring the CO2 concentration, ZGm05 can also measure the ambient temperature (**CO2+Temp**). This product is developed to detect the presence of CO2 in ambient air and help people to take care of Indoor Air Quality. ZGm05 can be widely used in the office, school, meeting room, houses and other 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.

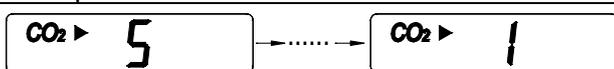


1. LCD display
2. Calibration Gas Entry
3. Power Inlet
4. Ventilation Slots

⚠EMC/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.



1. 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.

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

Temperature (°C/°F):



1. The default setting is °C or °F.

*Note: User could not change the temperature display unit.

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.

Specification

Method - Dual Beam NDIR (Non-dispersive-Infrared)
 Display - LCD Independent CO2 and Temperature readings
 Sample Method - Diffusion

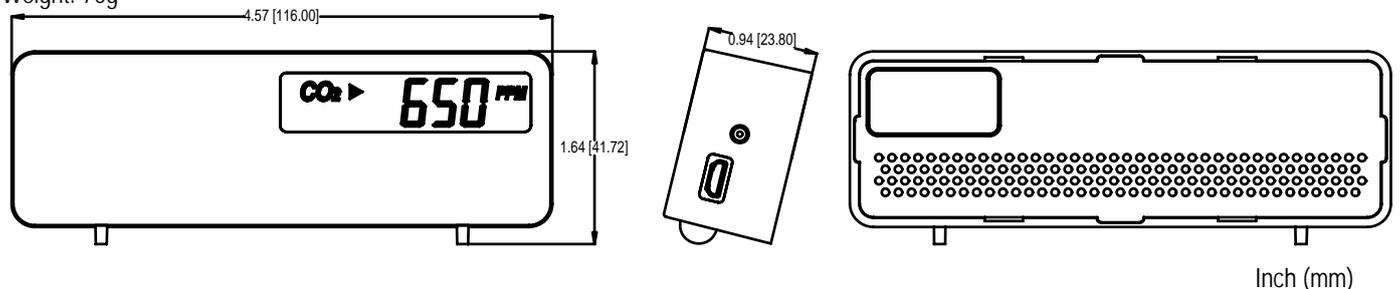
CO2 & Temperature Specification:

CO2 Specification:	
Measurement Range	0-3,000ppm display
Display Resolution	1ppm at 0-1,000ppm; 10ppm at 1,001-3,000ppm
Accuracy	0-2,000ppm: ± 100 ppm or $\pm 7\%$ of reading, whichever is greater; over 2000ppm: $\pm 10\%$
Repeatability	± 20 ppm
Temperature Dependence	Typ. $\pm 0.3\%$ of reading per $^{\circ}\text{C}$ or ± 4 ppm per $^{\circ}\text{C}$, 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 Unit	$^{\circ}\text{C}$ or $^{\circ}\text{F}$
Accuracy	$\pm 1.5^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$)
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)
Power Supply:	
Power Supply	USB or 5 VDC from external AC/DC adapter, which is not included in package (Please use Standard USB power) DC output range: 5VDC/ 300mA

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

Weight & Dimension

Weight: 70g



Fault Codes & Troubleshooting Guide

This section includes a list of Frequently Asked Questions for problems you may encounter with the ZGm05 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」 「Err6」	EEPROM System Problem	Please power on ZGm05 again If the "Err5, Err6" still appears, please contact the Service Department for further assistance.
「Err9」	The voltage of USB power is too low, the device does not work	This error will clear when user replaces standard USB power.