

Carbon Dioxide Monitor

Model: **G01-CO2-B3** Series

CO₂ + Temperature + Humidity Monitor/Controller



- Real time carbon dioxide detection and monitoring
- Temperature and humidity detection and display
- Three-color backlight LCD
- Optional display 24h average CO₂ and max. CO₂
- Provide optional 1x on/off output to control a ventilator
- Provide optional Modbus RS485 communication
- Wall mounting or desktop placement
- High quality, excellent performance
- CE-approval

Features

- ◆ Real time monitoring room carbon dioxide
- ◆ NDIR infrared CO₂ sensor inside with special Self Calibration. It makes the CO₂ measurement more accurate and more reliable.
- ◆ More than 10 years lifetime of CO₂ sensor
- ◆ Temperature and humidity monitoring
- ◆ Three-color (Green/Yellow/ Red) LCD backlight indicates ventilation level -optimal/moderate/poor based on the CO₂ measurements
- ◆ Buzzer alarm available/disable selected
- ◆ Optional display 24h average and max. CO₂
- ◆ Provide optional 1xrelay output to control a ventilator
- ◆ Provide optional Modbus RS485 communication
- ◆ Touch button for easy operation
- ◆ 24VAC/VDC or 100~240V or USB 5V power supply
- ◆ wall mounting or desktop placement available
- ◆ High quality with the excellent performance, best choice for schools and offices
- ◆ CE-approval

Applications

G01-CO₂ monitor is used to monitor indoor CO₂ concentration as well as temperature and humidity. It's installed on the wall or on the desktop

- ◆ Schools, offices, hotels, meeting rooms
- ◆ Shops, restaurants, hospitals, theaters
- ◆ Air ports, train stations, other public places
- ◆ Apartments, houses
- ◆ All ventilation systems

Specifications

Power supply	100~240VAC or 24VAC/VDC wire connecting USB 5V (>1A for USB adaptor) 24V with an adaptor
Consumption	3.5 W max. ; 2.5 W avg.
Gas detected	Carbon Dioxide (CO ₂)
Sensing element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25°C (77°F)	±50ppm + 3% of reading
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration interval	ABC Logic Self Calibration Algorithm
CO ₂ sensor life	15 years
Response Time	<2 minutes for 90% step change
Signal update	Every 2 seconds
Warm up time	<3 minutes (operation)
CO ₂ measuring range	0~5,000ppm
CO ₂ Display resolution	1ppm
3-color backlight for CO ₂ range	Green : <1000ppm Yellow: 1001~1400ppm Red: >1400ppm
LCD Display	Real time CO ₂ , Temp &RH Extra 24h average/max/min CO ₂ (optional)
Temperature measuring range	-20~60°C (-4~140°F)
Humidity measuring range	0~99%RH
Relay output (optional)	One relay output with rated switching current: 3A, resistance load
Operation conditions	-20~60°C (32~122°F); 0~95%RH, non condensing
Storage conditions	0~50°C (14~140°F), 5~70%RH
Dimensions/ Weight	130mm(H)×85mm(W)×36.5mm(D) / 200g
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30

Installation

Wall mounting (65mm×65mm or 2"×4" wire box)
Desktop placement

Standard

CE-Approval

Pictures

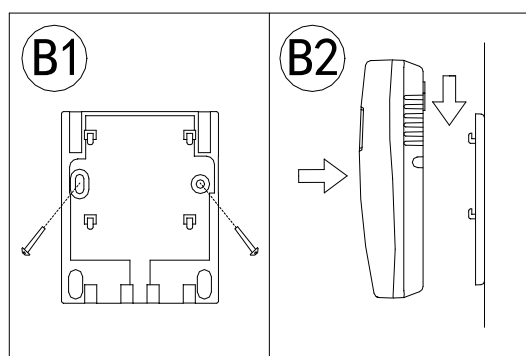
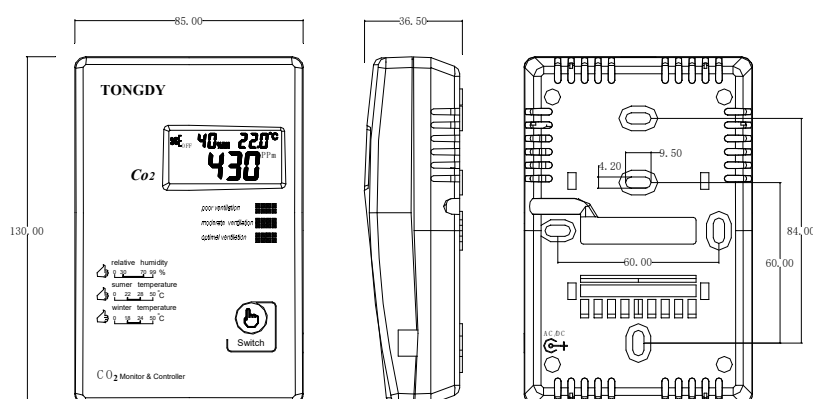


Models Guide

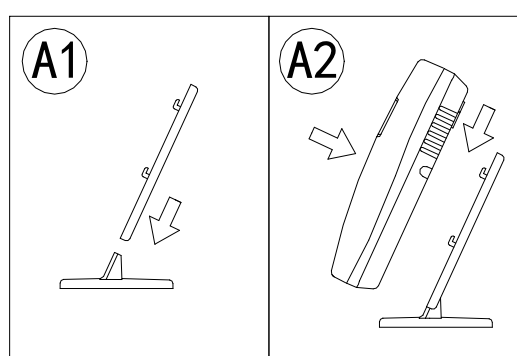
Model	Description	Display (3-color backlight)	Power Supply	Type
G01-CO2-B320C	CO2 monitor buzzer alarm available	CO2, Temp & RH	24VAC/VDC	Wall mounting
G01-CO2-B320D	CO2 monitor buzzer alarm available	CO2, Temp & RH	100~240VAC	Wall mounting
G01-CO2-B320D-ML	CO2 monitor buzzer alarm available	CO2, Temp & RH CO2 24h avg. and max/min	100~240VAC	Wall mounting
G01-CO2-B332C	CO2 monitor buzzer alarm available With desktop bracket	CO2, Temp & RH	24VAC/VDC with a power adaptor	Desktop or Wall mounting
G01-CO2-B332C-ML	CO2 monitor buzzer alarm available With desktop bracket	CO2, Temp & RH CO2 24h avg. and max/min	24VAC/VDC with a power adaptor	Desktop or Wall mounting
G01-CO2-B340C	CO2 monitor/controller, buzzer alarm available, 1 on/off output;	CO2, Temp & RH	24VAC/VDC	Wall mounting
G01-CO2-B340D	CO2 monitor/controller, buzzer alarm available, 1 on/off output;	CO2, Temp & RH	100~240VAC	Wall mounting
G01-CO2-B380C	CO2 monitor/controller, 1 on/off output; Modbus RS485 interface	CO2, Temp & RH	24VAC/VDC	Wall mounting
G01-CO2-B332U	CO2 monitor buzzer alarm available With desktop bracket	CO2, Temp & RH	USB 5V With a USB adaptor cable	Desktop
G01-CO2-B332X	CO2 monitor buzzer alarm available With desktop bracket	CO2, Temp & RH	USB 5V or 24VAC/VDC With a USB adaptor cable and a 24V power adaptor	Desktop

Optional Accessories			
921	Wall mounting plate	Use to paste the monitor on the wall	For the above models in wall mounting type
922	Desktop bracket	Use to place the monitor on desk	Make the above wall mounted models desktop

Mounting and Dimensions



Wall mounting with a base plate (921)



Desktop with the bracket (922)

Wiring Diagram

