

# CO<sub>2</sub> Monitor with Data Logger WiFi and RS485



## Product No: G01-CO2-P

### Applications

- Schools, offices, hotels, meeting rooms
- Shops, restaurants, hospitals, theaters, train stations, other public places
- Airports, apartments, houses
- All ventilation systems



- Three-color backlight LCD indicating three CO<sub>2</sub> ranges
- Built-in data logger with up to one year data record, download via Bluetooth APP
- WiFi or RS485 interface options
- USB 5V or DC5V power supply, 24VAC/VDC power supply battery power supply is option
- 3-color backlight for three CO<sub>2</sub> ranges
- Wall mounting or portable/desktop
- Commercial level with high quality for business buildings, such as offices, schools and upscale residence

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[www.iaqtongdy.com](http://www.iaqtongdy.com)

[info@tongdy.com](mailto:info@tongdy.com)

## Features

- Real time monitoring room carbon dioxide And optional temperature and humidity
- Well-known NDIR CO2 sensor with self calibration and up to 15 years lifetime
- Three-color (Green/Yellow/Red) LCD backlight indicate three CO2 ranges
- Built-in data logger, easy and safe download via Bluetooth APP
- Power supply selection: 5V USB/DC power adaptor, 24VAC/VDC, lithium battery;
- WIFI MQTT communication optional, uploading to cloud server
- RS485 is optional in Modbus RTU
- Wall mounting, portable/desktop available
- CE-approval

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## Specifications

Power supply	Select one as below: Power Adapter: USB 5V ( $\cong$ 1A USB adapter), or DC5V (1A). Power terminal: 24VAC/VDC Lithium battery: 1pc NCR18650B (3400mAh), can work continuously for 14 days.
Consumption	1.1W max. 0.03 W avg. (270mA@4.2Vmax. ; 7mA@4.2Vavg. )
Gas detected	Carbon Dioxide (CO <sub>2</sub> )

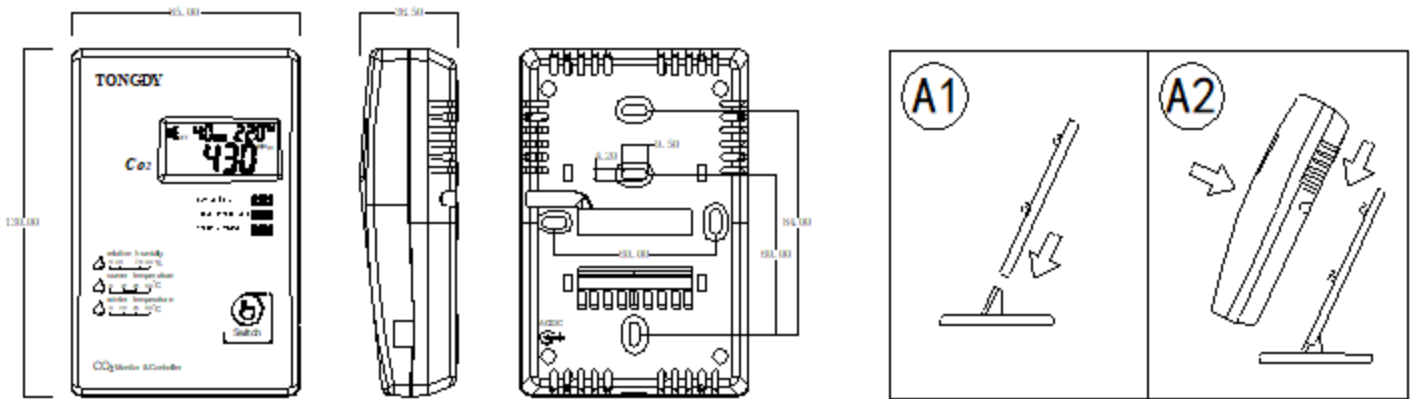
Sensing element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25°C(77°F)	±50ppm + 3% of reading
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration interval	ABC Logic Self Calibration Algorithm
CO2 sensor life	15 years
Response Time	<2 minutes for 90% step change
Signal update	Every 2 seconds
Warm up time	<3 minutes (operation)
CO <sub>2</sub> measuring range	0~5,000ppm
CO <sub>2</sub> Display resolution	1ppm
3-color backlight or 3-LED light for CO2 range	Green : <1000ppm Yellow: 1001~1400ppm Red: >1400ppm
LCD Display	Real time CO2, with Temp &RH selected
Temperature range (option)	-20~60°C
Humidity range (option)	0~99%RH
Data logger	Up to 145860 points storage 156 days data storage every 5 min. or 312 days every 10 min. for CO2 104 days data storage every 5 min. or 208 days every 10 min. For CO2 plus temp.&RH Download data via BlueTooth APP
Output (option)	WiFi @2.4 GHz 802.11b/g/n MQTT protocol RS485 Modbus RTU
Storage conditions	0~50°C(32~122°F), 0~90%RH non condensing
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 with an optional desktop bracket
Standard	CE-Approval



## Models Guide

Model	Output	Power Supply	Mount
G01-CO2-P32U/D	NO	USB 5V or DC5V power supply with a USB or DC power adaptor.	Desktop Or wall mounting
G01-CO2-P30C	NO	24VAC/VDC power supply	Wall mounting
G01-CO2-P30B	NO	Lithium battery power supply	Desktop
G01-CO2-P22U/D	WIFI	USB 5V or DC5V power supply with a USB or DC power adaptor.	Desktop Or wall mounting
G01-CO2-P20C	WIFI	24VAC/VDC power supply	wall mounting
G01-CO2-P12U	RS485	USB 5V or DC5V power supply with a USB or DC power adaptor.	Wall mounting or Desktop
G01-CO2-P10C	RS485	24VAC/VDC power supply	wall mounting
-TH	This suffix is for the temperature and humidity monitoring option, suitable for the above models.		

## Mounting and Dimensions



[https://: www.iaqtongdy.com](https://www.iaqtongdy.com)

[info@tongdy.com](mailto:info@tongdy.com)

office phone: +86 10 5973 8939

Address: Building #8, No.9 Dijin Rd, Haidian District, Beijing 100095, China