



## Carbon Dioxide Ventilation Controller

Model: **G01-CO2-B360D**

CO2+Temperature and RH Detection with Two Stages Ventilation Control

- ✓ **Real time carbon dioxide detection and control**
- ✓ **Temperature and humidity detection and display**
- ✓ **Three-color backlit LCD display CO2 three concentration ranges**
- ✓ **Provide 2xon/off outputs to control automatically two stages ventilation**

### ■ Features

- ◆ Design for real time detection and control air carbon dioxide.
- ◆ NDIR infrared CO<sub>2</sub> sensor inside with special Self Calibration System. It makes the CO<sub>2</sub> measurements more accurate and more reliable.
- ◆ Built in high accuracy digital temperature & RH sensor, real time monitoring ambient temperature & RH.
- ◆ More than 10 years lifetime of CO<sub>2</sub> sensor.
- ◆ Three-color (green/yellow/red) LCD backlit changes automatically to indicate ventilation levels based on CO<sub>2</sub> measurements: optimal/moderate/poor.
- ◆ Provide 2 x relay dry contact passive outputs to control 2 stages ventilation or two fans based on CO<sub>2</sub> setpoints.
- ◆ CO<sub>2</sub> setpoints can be preset by DIP switches easily.
- ◆ Specially design an Infrared remote controller for advanced parameters setup to meet different applications.
- ◆ High quality with the perfect appearance, the best choice for intelligent building and luxury residential.
- ◆ 100~240VAC power supply to be used in different regions.
- ◆ CE-Approval.

### ■ Application

This CO<sub>2</sub> controller is used for real time detection ambient CO<sub>2</sub>, temperature and humidity. It automatically controls two stages ventilation or two fans based on the CO<sub>2</sub> measurements and CO<sub>2</sub> setpoints. This CO<sub>2</sub> controller has three-color LCD backlit and touch button for monitoring and operation.

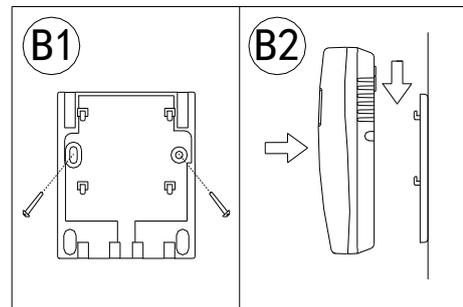
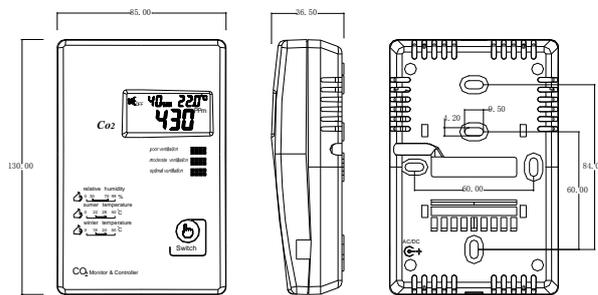
Specially designed 100~240VAC range of power supply, can be used for different applications in different countries or regions.

- ◆ Hotel, exhibition hall, hospital, shop, restaurant, air port, train station, theater and other public places
- ◆ House, villa, office, meeting room, classroom and other rooms
- ◆ All ventilation systems

## ■ Specifications

Gas detected	Carbon Dioxide (CO <sub>2</sub> )
Sensing element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25°C(77°F)	±60ppm + 3% of reading
Stability	<2% of FS over life of sensor (10 yr typical)
Calibration interval	ABC Logic Self Calibration Algorithm
NDIR life	>10 years
Response Time	<2 minutes for 90% step change
Signal update	Every 2 seconds
CO <sub>2</sub> measuring range	0~5,000ppm
CO <sub>2</sub> Display resolution	1ppm
Power supply	100~240VAC 50/60Hz
Consumption	3.7 W max. ; 2.6 W avg.
Temperature & Humidity sensor	High accuracy digital integrated temperature and humidity sensor
Temperature measuring range	0~60°C(32~140°F)
Humidity measuring range	0~99%RH
Relay max output	2×SPST, 5A/30VDC, 5A/275VAC Each load: 150W, 1250VA
CO <sub>2</sub> control output settings	two set points is selectable for the first relay: ≥800ppm ON, ≤700ppm OFF ≥1000 ppm ON, ≤900ppm OFF two set points is selectable for the second relay: ≥1200ppm ON, ≤1100ppm OFF ≥1400 ppm ON, ≤1300ppm OFF
Infrared remote control (Optional)	Used for advanced parameter setup
Operation conditions	0~50°C(32~122°F); 0~95%RH, non condensing
Storage conditions	10~50°C(50~122°F); 5~95%RH, non condensing
Weight	210g
Dimensions	130mm(H)×85mm(W)×36.5mm(D)
Installation	65mm×65mm or 2"×4" wire box
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Standard	CE-Approval

## ■ Mounting and Dimensions



Wall mounting-base bracket

## ■ Wiring Diagram

