



Carbon Dioxide Monitor and Controller

Model: F2000IAQ-CO2-3003F

CE Approval

□ Features

- ◆ Multiple functions and high performance with low prices
- ◆ Wall mounting type
- ◆ LCD display CO₂ level and temperature
- ◆ NDIR infrared CO₂ module inside with special ABC Logic Self Calibration System. It makes the CO₂ measurement more accurate and more reliable.
- ◆ More than 10 years lifetime of CO₂ sensor
- ◆ Microprocessor control, quick response, high precision
- ◆ Provide three relay outputs to control a 3-speed fan.
- ◆ CO₂ range: 0~2,000ppm or 0~10,000ppm;
- ◆ CE-Approval

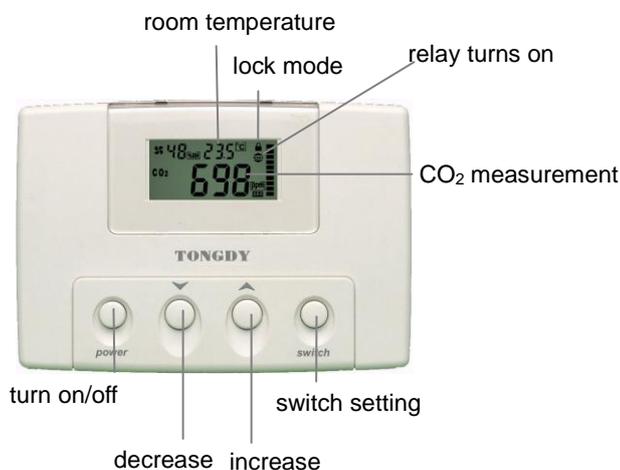
□ Application

F2000IAQ-CO₂-3003F controller provides 3x relay outputs for 3 CO₂ levels. So it can satisfy the application requirements of 3-speed fan.

It will be used in below application:

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

□ Buttons and LCD



□ Specifications

Gas detected	Carbon Dioxide (CO ₂)
CO ₂ Sensor	Non-Dispersive Infrared Detector (NDIR) with more than 10 years lifetime
Temperature sensor	NTC
Temperature dependence	0.2% FS/°C
Temperature correction	Self-compensation
Power supply	24VAC/VDC
Consumption	3.5 W max. ; 2.5 W avg.
Accuracy@25°C (77°F)	±40ppm + 3% of reading (0~2000ppm) ±75ppm or 10% reading whichever is greater (0~10,000ppm)
Stability	<2% of FS over life of sensor (15 years typically)
Calibration interval	ABC Logic Self Calibration Algorithm
Non linearity	<1% of FS
Pressure dependence	0.13% of reading per mm Hg
Altitude calibration	Programmable from 0-9,900m in 100m increments
Response Time	<2 minutes for 90% step change
Signal update	Every 2 seconds
Warm up time	2 hours (first time) 2 minutes (operation)
CO ₂ measuring range	0~2,000ppm 0~10,000ppm optional
CO ₂ setting & Display resolution	1ppm
Temperature measuring/ setting range	0~50°C (32~122°F) / 5~45°C (41~113°F)
Relay output	Three dry contact outputs with programmable selection to control CO ₂ , Rated switching current for each output: 2A(220VAC/30VDC), resistance load
Operation conditions	0~50°C (32~122°F); 0~95%RH,
Storage conditions	0~50°C (32~122°F); 5~90%RH non condensing
Weight	360g
Dimensions	130mm×90mm×40mm
Installment standard	65mm×65mm or 2"×4" wire box
Wiring standard	wire section area<1.5mm ²
Approval Standard	CE-Approval

□ Mounting and Wiring Diagram

