



TSM-CO2-L series

## CARBON DIOXIDE DETECTOR

Model: F2000TSM-CO2-L Series

CE Approval

### Features

- ◆ Real-time detecting CO<sub>2</sub> level.
- ◆ NDIR infrared CO<sub>2</sub> module inside with four CO<sub>2</sub> detection range selectable.
- ◆ CO<sub>2</sub> sensor has Self-Calibration Algorithm and 15 years lifetime
- ◆ Wall-mounting
- ◆ Special "L" series with 6 lights indicates CO<sub>2</sub> level and makes CO<sub>2</sub> level show clearly.
- ◆ Provide a special model with an on/off relay output with a touch button to operate a fan control.
- ◆ Design for HVAC, ventilation systems, offices, or other public places.
- ◆ CE-Approval

### Specifications

Gas detected	Carbon Dioxide (CO <sub>2</sub> )
Sensing element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25°C (77°F),2000ppm	±40ppm + 3% of reading or ±75ppm (whichever is greater)
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration interval	ABC Logic Self Calibration System
Response time	<2 minutes for 90% step change
Warm up time	2 hours (first time) 2 minutes (operation)
CO <sub>2</sub> measuring range	0~2,000ppm
Sensor life	Up to 15 years
Power supply	24VAC/24VDC
Consumption	1.5 W max. ; 0.8 W avg.
Relay output	1X2A switch load Four set points selectable by jumpers
6 LED lights (just for TSM-CO2-L series) From left to right: Green/Green/Yellow/Yellow/Red/Red	1 <sup>st</sup> green light on as CO <sub>2</sub> measurement ≤ 600ppm 1 <sup>st</sup> and 2 <sup>nd</sup> green lights on as CO <sub>2</sub> measurement > 600ppm and ≤ 800ppm 1 <sup>st</sup> yellow light on as CO <sub>2</sub> measurement > 800ppm and ≤ 1,200ppm 1 <sup>st</sup> and 2 <sup>nd</sup> yellow lights on as CO <sub>2</sub> measurement > 1,200ppm and ≤ 1,400ppm 1 <sup>st</sup> red light on as CO <sub>2</sub> measurement > 1,400ppm and ≤ 1,600ppm 1 <sup>st</sup> and 2 <sup>nd</sup> red lights on as CO <sub>2</sub> measurement > 1,600ppm

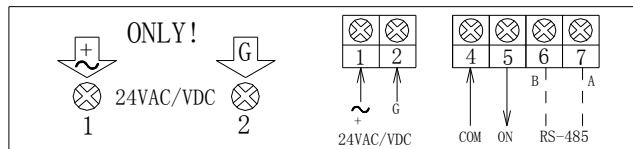
Operation conditions	0~50°C (32~122°F); 0~95%RH, non condensing
Storage conditions	0~50°C (32~122°F)
Net weight	180g
Dimensions	100mm×80mm×28mm
Installation standard	65mm×65mm or 2"×4" wire box
Approval	CE-Approval

### Models Guide

Type	Model	Description
CO2 Detector with 6 indicator lights	F2000TSM-CO2-L110-N-02	6 lights indicate CO2 measurements range, 1x relay output
	F2000TSM-CO2-L111-N-02	6 lights indicate CO2 measurements range, 1x relay output, Modbus interface

### Wiring Diagram

For F2000TSM-CO2-L series except L00/L101-V/A



### Mounting

