

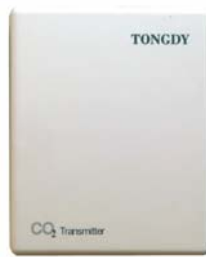
Carbon Dioxide Transmitter& Indicator

Model: F2000TSM-CO2 Series

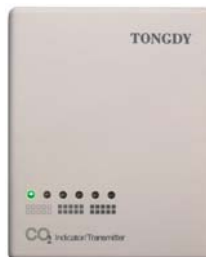
CE Approval

□ Features

- ◆ Real-time detecting CO2 level.
- ◆ NDIR infrared CO2 module inside with four CO2 detection range selectable.
- ◆ CO2 sensor has Self-Calibration Algorithm and 15 years lifetime
- ◆ Wall-mounting
- ◆ Providing one analog output with voltage or current selectable
- ◆ 0~10VDC/4~20mA selectable easily via jumpers
- ◆ Special “L” series with 6 lights indicates CO₂ level and makes CO₂ level show clearly.
- ◆ Provide a special model with a on/off relay output with a touch button to operate a fan control.
- ◆ Design for HVAC, ventilation systems, offices, or other public places.
- ◆ Modbus RS485 communication interface optional: 15KV antistatic protection, independent address setting
- ◆ CE-Approval
- ◆ For duct probe CO2 transmitter, please see our TG9 series
- ◆ For CO₂+Temp.+RH 3 in 1 transmitter, please see our G01-CO2-B transmitter series



TSM-CO2-S series



TSM-CO2-L series

□ Specifications

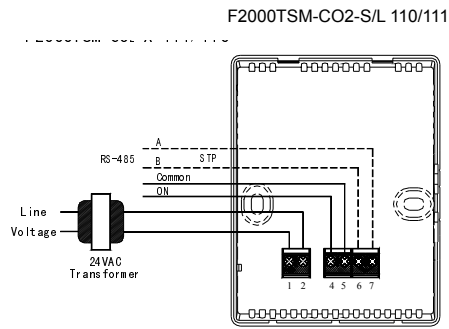
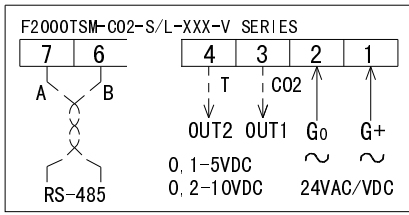
Gas detected	Carbon Dioxide (CO ₂)
Sensing element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25°C(77°F),2000ppm	±40ppm + 3% reading
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration interval	ABC Logic Self Calibration System
Response time	<2 minutes for 90% step change
Warm up time	2 hours (first time) 2 minutes (operation)
CO ₂ measuring range	0~2,000ppm / 0~5,000ppm / 0~20,000ppm / 0~50,000ppm selectable in orders
NDIR life	15 years
Power supply	24VAC/24VDC
Consumption	1.5 W max. ; 0.8 W avg.
Analog outputs	0~10VAC or 4~20mA selectable by jumpers

6 LED lights (just for TSM-CO2-L series) From left to right: Blue/Blue/Green/Orange/Red/Red	1 st blue light on as CO2 measurement ≤ 600ppm 1 st and 2 nd blue lights on when 600ppm < CO2 measurement < 800ppm Green light on when 800ppm < CO2 measurement < 1,000ppm Orange light on when 1,000ppm < CO2 measurement < 1,500ppm 1 st red light on when 1,500ppm < CO2 measurement < 2,000ppm 1 st and 2 nd red lights on as CO2 measurement > 2,000ppm
Communication interface	Modbus RS485 interface 9600/14400/19200(default)/28800 or 38400bps (programmable selection), 15KV antistatic protection.
Operation conditions	0~50°C (32~122°F); 0~95%RH, non condensing
Storage conditions	-40~70°C (-40~158°F)
Net weight	180g
Dimensions	100mm×80mm×28mm
Installation standard	65mm×65mm or 2"×4" wire box
Approval	CE-Approval

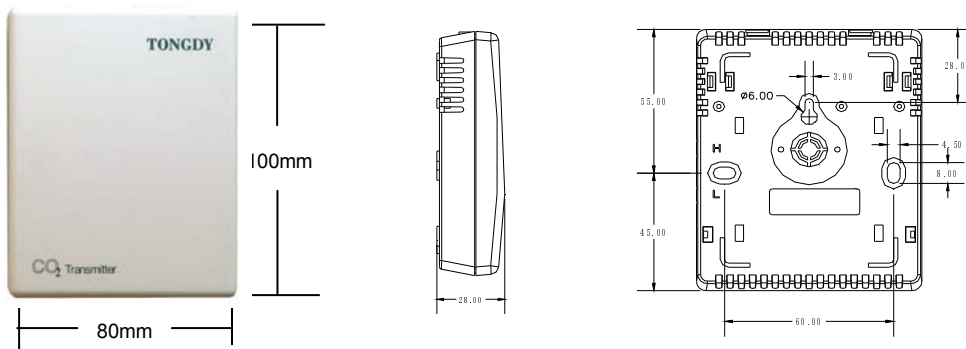
□ **Models Guide**

Type	Model	Description
CO2 transmitter (1xanalog output)	F2000TSM-CO2-S100-V/A-02	1Xanalog output, CO2 range: 0~2000ppm
	F2000TSM-CO2-S100-V/A-05	1Xanalog output, CO2 range: 0~5000ppm
	F2000TSM-CO2-S100-V/A-20	1Xanalog output, CO2 range: 0~20000ppm
	F2000TSM-CO2-S100-V/A-50	1Xanalog output, CO2 range: 0~50000ppm
CO2 transmitter with RS485 interface (1xanalog output, Modbus RS485 interface)	F2000TSM-CO2-S101-V/A-02	1Xanalog output, RS485 communication.
	F2000TSM-CO2-S101-V/A-05	1Xanalog output, RS485 communication
	F2000TSM-CO2-S101-V/A-20	1Xanalog output, RS485 communication.
	F2000TSM-CO2-S101-V/A-50	1Xanalog output, RS485 communication.
CO2 Indicator & Transmitter with 6 indicator lights CO2 range: 0~2000ppm	F2000TSM-CO2-L100-N-02	CO2 indicator
	F2000TSM-CO2-L101-N-02	CO2 indicator and transmitter, RS485 communication.
	F2000TSM-CO2-L100-V/A-02	CO2 transmitter & indicator, 1x analog output
	F2000TSM-CO2-L101-V/A-02	CO2 transmitter & indicator, 1x analog output, RS485 communication
Accessories	Power adaptor-E	Plug-in power adapter, Input: 100~240VAC ; Output: DC 24V/ 240mA. European plug
	Power adaptor- A	Plug-in power adapter, Input: 100~240VAC; Output: DC 24V 240mA. American plug

□ **Wiring Diagram**



□ **Mounting**



□ **Shipping Information**

Indiv. Ctn. Dim	115mm×95mm×45mm
Master Ctn. Qty	80
Master Ctn. Dim	45cm(L)×34cm(W)×34cm(H)
Master Ctn. Wt.	16KG