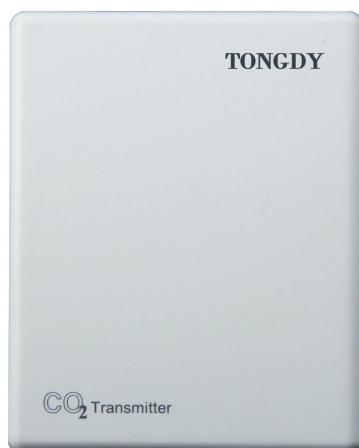


CARBON DIOXIDE TRANSDUCER



TSM-CO2-S



TSM-CO2-L

Applications

- For BAS and HVAC systems
- CO2 detection and transmission
- 6-LED lights indicating six CO2 ranges
- Used in all ventilation systems



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www.iaqtongdy.com

info@tongdy.com

Product No: F2000TSM-CO2 Series

Features

- CO2 transmitter in low cost
- NDIR infrared CO2 sensor with Self-Calibration Algorithm and up to 15 years lifetime
- Wall-mounting
- One analog output, 0~10VDC/4~20mA selectable
- Six LCD lights indicate six CO2 ranges with clear real time CO2 level
- Design for HVAC, ventilation systems, offices, schools or other public places.
- Modbus RS485 communication interface with 15KV antistatic protection

Specifications

Gas detected	Carbon Dioxide (CO ₂)
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 ₂ measuring range	0~2,000ppm OR 0~5,000ppm
Sensor life	> 10 years
Power supply	24VAC/24VDC
Consumption	1.5 W max. ; 0.8 W avg.
Analog outputs	0~10VAC or 4~20mA selectable by jumpers
Relay output	1X2A switch load Four set points selectable by jumpers
6 LED lights (just for TSM-CO2-L series) Green/Green/Yellow/Yellow/Red/Red	1 st green light on as CO2 measurement≤600ppm 1 st and 2 nd green lights on as CO2 measurement>600ppm and≤800ppm 1 st yellow light on as CO2 measurement>800ppm and≤1,200ppm 1 st and 2 nd yellow lights on as CO2 measurement>1,200ppm and≤1,400ppm 1 st red light on as CO2 measurement>1,400ppm and≤1,600ppm 1 st and 2 nd red lights on as CO2 measurement>1,600ppm
RS485 interface	Modbus RTU 9600/14400/19200(default), 15KV antistatic protection.
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

Name	Model	Description
CO2 Transmitter	F2000TSM-CO2-S100-V/A-02	1Xanalog output, CO2 range: 0~2,000ppm
	F2000TSM-CO2-S100-V/A-05	1Xanalog output, CO2 range: 0~5,000ppm
	F2000TSM-CO2-S101-V/A-02	1Xanalog output, RS485 interface (Modbus RTU).
	F2000TSM-CO2-S101-V/A-05	1Xanalog output, RS485 (Modbus RTU)
	F2000TSM-CO2-L101-N-02/05	6 lights indicate CO2 measurements range, Modbus interface
	F2000TSM-CO2-L100-V/A-02/05	6 lights indicate CO2 measurements range, 1x analog output
	F2000TSM-CO2-L101-V/A-02/05	6 lights indicate CO2 measurements range, 1x analog output, Modbus RS485 interface
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

Mounting and Wiring

