

F2000TSM-CO Series - DATASHEET

Indoor Carbon Monoxide Indicator and Controller

- Real time detect and indicate ambience carbon monoxide level
- Featured 6 LED indicator lights indicates different CO levels
- Normal five years lifetime
- Provide 1x dry contact output to control a ventilator or an alarm
- Provide RS485 communication interface to be connected with a PC or a DDC/PLC
- The highest performance with the lowest price

F2000TSM-CO series is used to indicate ambience carbon monoxide level with 6 indicator lights. Also with its dry-contact of relay output, a fan or alarm device can be controlled to turn on/turn off by ambience carbon monoxide measurement.

F2000TSM-CO can provide RS-485 communication interface as an option with independent address, it can be connected with a PC or DDC/PLC.

□ Features

- ◆ Wall mounting, real time detect CO level with measuring range of 0~500ppm.
- ◆ Japanese semiconductor CO gas sensor is inside with normal 5 years lifetime.
- ◆ Full time detects CO level, even the slightest leak can be detected
- ◆ One on/off output optional for control a fan or an alarm device.
- ◆ Convenient to select the CO range during four carbon monoxide ranges via a set of jumpers so that to control the relay output
- ◆ Special six indicator lights indicate six different CO level ranges.
- ◆ RS-485 communication interface optional with 15KV antistatic protection, independent address setting

□ Application

- ◆ Detect and indicate ambience carbon monoxide level
- ◆ Used in both human and Industrial environment
- ◆ Kitchen rooms and restaurants
- ◆ Underground parking lots, maintenance garages
- ◆ Freezing machine rooms and other places where air quality is easy to worsen
- ◆ Automatic ventilation control

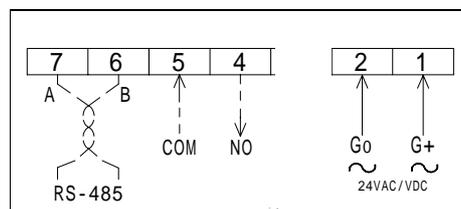


□ Specifications

Gas detected	Carbon monoxide
Sensing element	Semiconductor carbon monoxide gas sensor
Power Supply	18~38VAC/VDC
Consumption	2.5 W
Warm up time	36 hours (first time) 10 minutes (operational)
Response Time	<5 minutes for 90% step change
Signal Update	1s
CO Measuring Range	0~500ppm
Six indicator lights	The first green indicator light: CO≤0ppm The first and the second green indicator lights: CO ≥20ppm The first yellow indicator light: CO≥50ppm

	The first and the second yellow indicator lights: CO \geq 100ppm The first red indicator light: CO \geq 200ppm The first and the second indicator lights: CO \geq 300ppm
Relay output	One dry contact output, rated switching current 2A (resistant load)
Communication rate	RS485, 9600/14400/19200(default), 28800 bps, 38400 bps (programmable selection), 15KV antistatic protection, 3 independent base address.
Operation temperature	0 ~ 70 (32 ~ 158)
Operation humidity	0 ~ 95%RH, non condensing
Storage conditions	-40 ~ 70 (-40 ~ 158)
Net Weight	195g
Dimensions	100mm \times 80mm \times 28mm
Installation standard	65mm \times 65mm or 2" \times 4" junking box
Wiring terminals (max.)	6
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30

□ Wiring Diagrams



□ Models

ITEM	MODEL	DESCRIPTION
F2000TSM-CO Indicator and Controller	F2000TSM-CO-L100	CO indicator with 6 LED indicator lights
	F2000TSM-CO-L100C	CO detector with 6 LED indicator lights, RS485 communication interface
	F2000TSM-CO-L101	CO controller with 6 LED indicator lights, One dry contact output
	F2000TSM-CO-L101C	CO controller with 6 LED indicator lights, One dry contact output, RS485 communication interface

□ Shipping Information

Indiv. Ctn. Dim	115mm \times 95mm \times 45mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L) \times 32cm(W) \times 32cm(H)
Master Ctn. Wt.	18KG

□ Mounting

