

Carbon Monoxide Transducer



Applications

- Commercial carbon monoxide detector and transducer
- Ventilation control for indoor parking garages
- Recreational vehicle CO detectors
- Kitchen rooms and restaurants
- Freezing machine rooms and other places where air quality is easy to worsen

Product No:F2000TSM-CO-C101

- Real time detect and transmit air carbon monoxide
- High quality electrochemical sensor inside with up to five years lifetime
- 1x analog output for linear measurement
- Modbus RS485 interface
- The highest performance with the lowest price

Design for real time detection air carbon monoxide concentration in enclosed or semi-enclosed places like car parks. According to the measurements of carbon monoxide to control ventilation systems or alarm .



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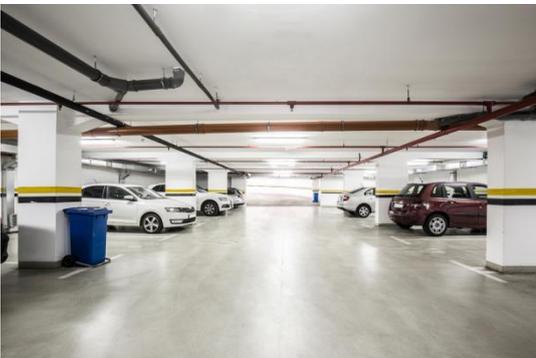
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Features

- Wall mounting, real time detect carbon monoxide of 0~100ppm range or optional 0~200ppm/ 0~500ppm.
- Electrochemical sensor from Japanese Figaro offers several advantages over traditional electrochemical sensors.
- With the long lifetime character, the detector has perfect long term stability, and high accuracy.
- Especially the inside sensor is environmentally friendly without risk of electrolyte leakage.
- One analog output of the measurement of carbon monoxide with 0~10V or 4~20mA selectable
- Special built-in Self-Zero Correction algorithm.
- Modbus RS-485 communication with 15KV antistatic protection, also can be calibrated carbon monoxide measurement via the interface



Typical Applications



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Specifications

General Data

Power Supply	24VAC/VDC
Consumption	1.5 W
Wiring connections	5 terminal blocks (max.)
Operation temperature	0~60°C(32~140°F)

Operation humidity	5~99%RH, non condensing
Storage conditions	0~50°C (32~122°F)
Net Weight	190g
Dimensions	100mm×80mm×28mm
Installation standard	65mm×65mm or 2"×4" junking box
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Compliance	EMC Directive 89/336/EEC

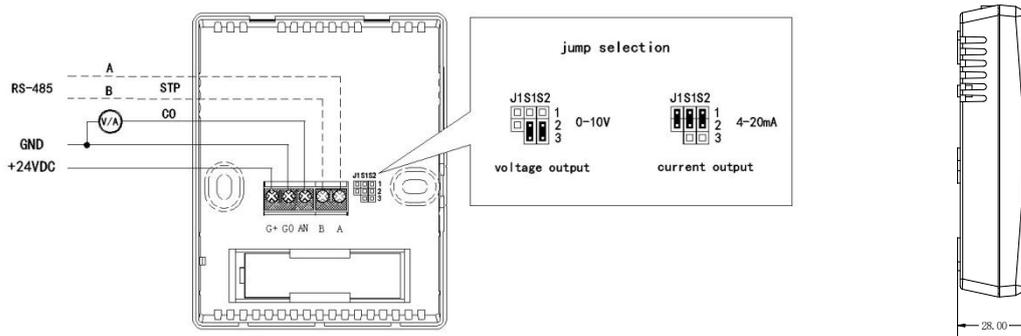
CO Measurement

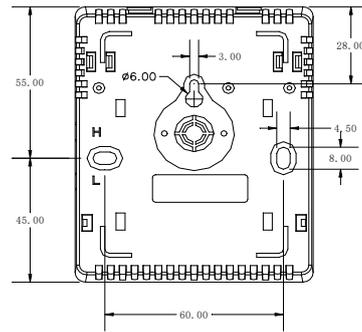
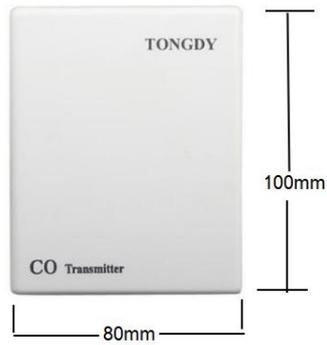
Gas detected	Carbon monoxide
Sensing element	Electrochemical sensor
Gas sample mode	Diffusion
Warm up time	1 hour (first time)
Response Time	Within 60 seconds
Signal Update	1s
CO Measuring Range	0~100ppm(default) 0~200ppm/0~500ppm selectable in purchasing
Accuracy	<1ppm±3%
Stability	±5% (over 900 days)

Outputs

Linear analog output	1x0~10VDC or /4~20mA
D/A resolution	16 bit
D/A conversion accuracy	0.1ppm
	Modbus RTU
RS485 Communication interface	9600,14400,19200(default), 28800, 38400 bps (programmable selection), 15KV antistatic protection

Mouting and Wiring





Models

ITEM	MODEL	DESCRIPTION
Carbon Monoxide Tranducer	F2000TSM-CO-C001	Carbon monoxide tranducer with Modbus RS485 communication interface
	F2000TSM-CO-C101-V/A	Carbon monoxide tranducer with one 0~10VDC/4~20mA output. Modbus RS485 communication interface

CO range(postfix after the model):

- 001: 0~100ppm (default)
- 002: 0~200ppm
- 005: 0~500ppm