

# CO Detector - Wall Mount

## Modbus RS485

### WCM-CO-C101



### Product Detail

- Specifically designed for enclosed or semi-enclosed car parks
- Detects and transmits ambient carbon monoxide levels in real time
- Long life sensor
- 1 x analog output linearised
- Modbus RS485 interface
- Essential component in the ventilation control system
- Designed for easy installation and minimum maintenance during operation
- The highest performance at the lowest price

### Features

- + Wall mounting, CO measuring range of 0~100ppm/ 0~200ppm/ 0~500ppm
- + Long life electrochemical sensor, long term stability, and high accuracy
- + CO sensor is environmentally friendly without risk of electrolyte leakage
- + Simple calibration through interface
- + Selectable linear analog output 0~10V/4~20mA
- + Built-in Self-Zero Correction algorithm
- + Modbus RS-485 communication with 15KV antistatic protection

### Application

- + Ventilation control in enclosed car parks and garages in residential and commercial buildings
- + Recreational facilities where a large vehicle movement is present
- + Kitchen rooms and restaurants
- + Car repair workshops, loading docks and other places where air quality could possibly worsen

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### Specifications

CO Measurement	
Target Gas	Carbon monoxide
Sensing element	Electrochemical sensor
Gas sample mode	Diffusion
Warm up time	1 hour (cold start)
Response Time	< 60 seconds
Signal refresh rate	1s
CO Measuring Range	0~100ppm(default) 0~200ppm/0~500ppm selectable
Accuracy	<±1ppm (at 20±5°C/ 50±20%RH)
Stability	±5% (over 900 days)
Electrical	
Power Supply	24VAC/VDC
Consumption	1.5 W
Wiring connections	Screw terminal block
Outputs	
Analog output	1x0~10VDC/4~20Ma selectable in order (Linearised)
D/A resolution	16 bit
D/A conversion accuracy	0.1ppm
Modbus RS485 Communication interface	Modbus RS485 interface 9600/14400/19200(default), 28800 bps, 38400 bps (programmable selection), 15KV antistatic protection
General Performance	
Operation temperature	0-60°C
Operation humidity	5-99%RH, non condensing
Storage conditions	0-50°C
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

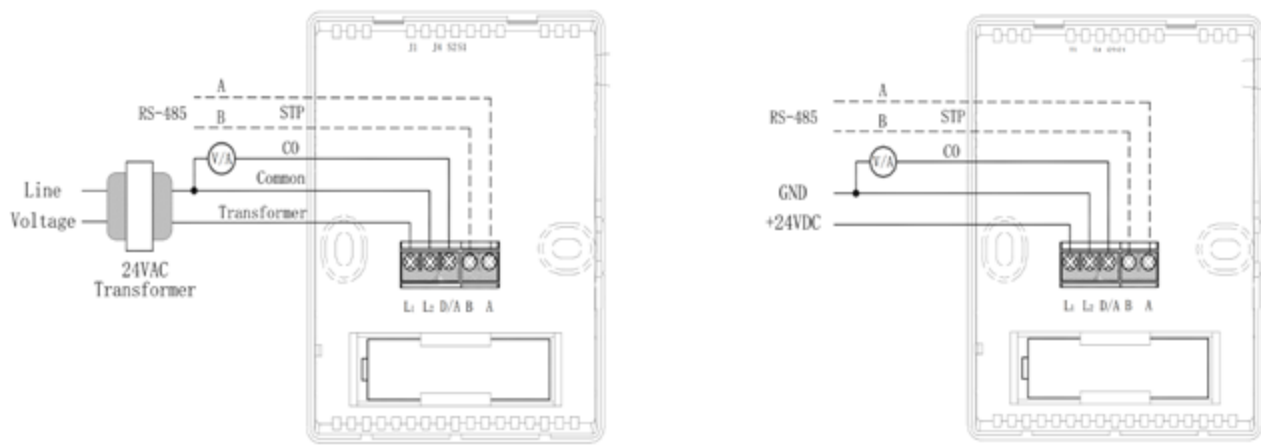
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## Dimensions and Mounting



## Wiring Diagram



## Model Selection

Model	
WCM-CO-C001	Carbon monoxide transmitter with Modbus RS485 communication interface
WCM-CO-C101-V/A	Carbon monoxide transmitter with one 0~10VDC/4~20mA output. Modbus RS485 communication interface

CO range (suffix):

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

