CO DETECTOR – WALL MOUNT

MODBUS RS485

PRODUCT BROCHURE

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/ 0~200pm/ 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
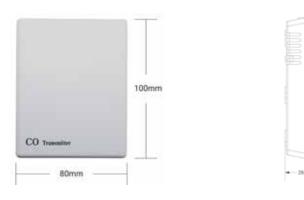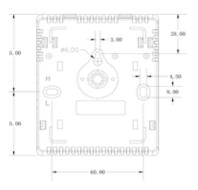

CO Transmitter

SPECIFICATIONS

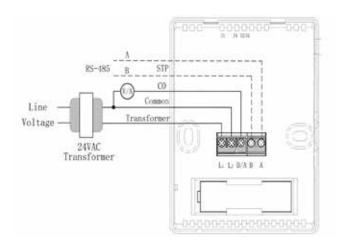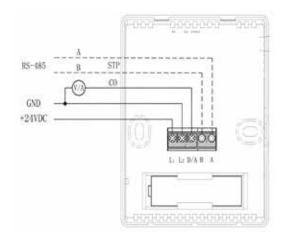| CO Measurement	
Target Gas	Carbon monoxide
Sensing element	Electrochemical sensor
Gas sample mode	Diffusion
Warm up time	1 hour (cold start)
Response Time	< 60 seconds
Signal refresh rate	1s
CO Measuring Range	0~100ppm(default) 0~200ppm/0~500ppm selectable
Accuracy	<±1ppm (at 20±5°C/ 50±20%RH)
Stability	±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

DIMENSIONS & 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