



Applications & Features

- It's necessary to control the ventilation of car park and vehicle maintenance and test work shop according to many building HVAC regulations. Considering of energy efficiency, demand controlled ventilation (DCV) is recommended to provide enough fresh air according to CO concentration and temperature. CM transmitter and controller are designed for these applications. It can effectively control the ventilation system to safety and energy-saving operations
- Environmental friendly electrochemical sensor gives good long term accuracy, sensitivity and reliability
- Better than most other similar sensors, it gives more than 7~10 years sensor life to protect customer's investment
- Better than most other similar sensors which maybe need recalibration every 6~12 months, it only need periodical recalibration as long as 3~5 years or more, maintain 5% accuracy
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring(for CMWN)
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Wide range of operating temperature, optional relays to actuate the alarm or control function output
- LCD & function keys can set various parameters, calibrate and adjust output, so that the product can be a stand alone controller(for CMWN)

Specifications

CO sensor: Electrochemical gas sensor
Range: 0~100ppm, or others (0-400ppm)
Accuracy: ±5% @ 0-400ppm
Temp. sensor: Digital sensor (CMWN), Thermistor (CMD)
Range: 0~50°C
Accuracy: CMWN: ±0.5°C@0~50°C (≥1m/s air flow)
 CMD: ±0.5°C@25°C (≥1m/s air flow)
Output: 4~20mA (3 wires), 0~10VDC, RS485 / Modbus;
 OUT1: T, OUT2: CO
Relay: 2×SPST, 1A/30VDC, 0.5A/125VAC (for CMD),
 3A/30VDC, 3A/250VAC (for CMWN)
Alarm: buzzer+LCD's backlight (CMWN)
Response Time: ≤60s
Output Load: ≤500Ω (current), ≥2KΩ (voltage)
Power: 16~28VAC/16~35VDC (for CMWN)
 18~28VAC/18~35VDC (for CMD)
Display & Keys: optional LCD Display & Keys(CMWN), see more details on LCD & Keys operation

Work environment: 0~50°C (continuous); -5~55°C (intermittent); 5~99%RH (Non- cond.)
Housing: ABS+PC (CMWN), ABS(CMD)
Protection: IP30 (CMWN), IP65 (CMD)
Weight: 150g
Agency Approval: CE

Models

Model	CMWN			Wall mount CO transmitter/ Controller
	CMD			Duct mount CO transmitter/ Controller
Output		1		4~20mA / 0~10VDC
		B		4~20mA / 0~10VDC, RS485/Modbus
Range		0		0~100ppm/0-50°C
		7		other(0~400ppm/ 0-50°C)
Relay output			0	N/A
			1	2×SPST
			2	1×Buzzer (CMWN)
LCD&Keys (CMWN)			0	N/A
			1	LCD
			2	LCD&Keys

Note: All products are factory set to 4-20mA as output default, and can be set to 0-10V by jumper on the PCB