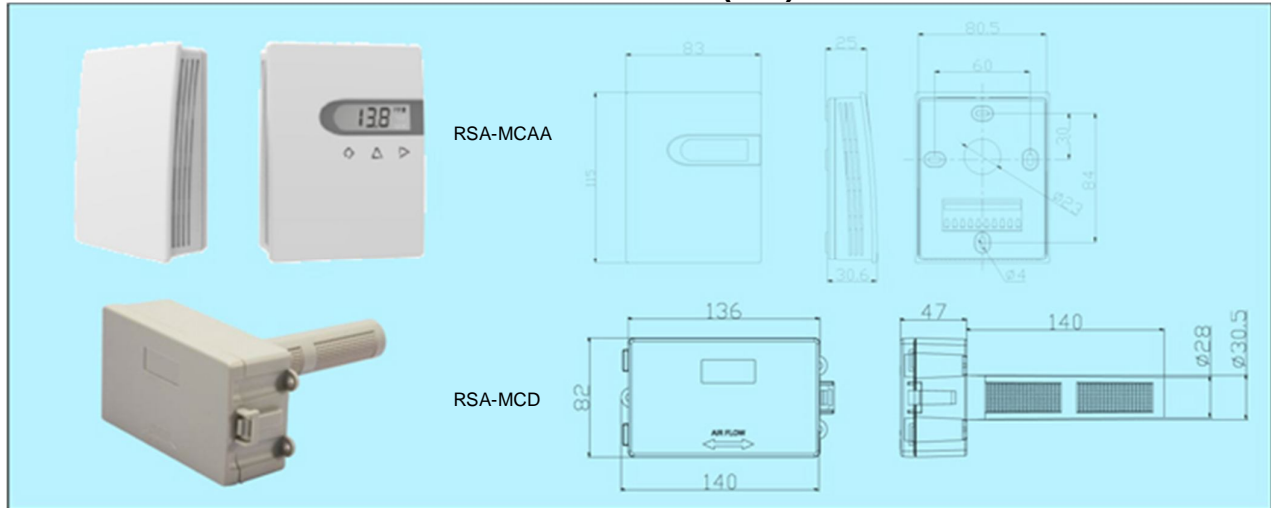# RSA-MCAA & RSA-MCD Carbon Monoxide (CO) Transmitter/Controller

RSA-MCAA

RSA-MCD

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. It is designed for the applications which can effectively control the ventilation to safety and energy-saving operations
- Environmental friendly electrochemical sensor gives good long term accuracy, sensitivity and reliability
- Better than most other sensors 1~3 years life span, it gives more than 7~10 years sensor life to protect customer's long term investment
- Better than most other sensors which may need recalibration every 6~12 months, it only need periodical recalibration as long as 3~5 years or more, maintaining 5% accuracy
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring(for CMWN)
- Digital technology applied, multiple ranges and outputs selection, 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, with min 7~10 years life span
   Range: 0~100ppm, or others (0-400ppm)
   Accuracy: ±5% @0~50°C, 0-400ppm
Temp. sensor: Digital sensor (RSA-MCAA), 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 RSA-MCAA)
         18~28VAC/18~35VDC (for RSA-MCD)
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 (RSA-MCAA), ABS(CMD)

Protection: IP30 (RSA-MCAA), IP65 (CMD)
Weight: 150g(RSA-MCAA), 390g (CMD)
Agency Approval: CE

Models

Model					
Model	RSA-MCAA				Room CO transmitter/ Controller
	RSA-MCD				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

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