



### Applications & Features

- It's necessary to control the ventilation of car park and vehicle maintenance and test work shop according to many building's HVAC regulations. Considering of energy efficiency, demand controlled ventilation (DCV) is needed to provide enough fresh air according to CO concentration. These transmitters are designed for the control of ventilation system to safety and energy saving operations
- Electrochemical sensor gives good long term accuracy, sensitivity and reliability
- The sensor has more than 5 years life span to protect customer's investment, long-term stable performance and low drift, only need periodical recalibration as long as 12 months or more
- Digital technology applied, multiple ranges and outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Different housings meet different installation requirements, CMWL is for wall mount with better protection, while CMWNL for general room application

### Models

Model	CMWL	CMWNL		Wall mount CO transmitter	Room CO transmitter
Output		1		0~10VDC(3 wires)	
		2		4~20mA(2 wires)	
		8		RS485/Modbus	
Range		0		0~100ppm	
		1		0~300ppm	
Display		0		N/A	
		1		LCD	

### Specifications

**CO sensor:** Electrochemical, min 5 years life span  
**Sampling Method:** Diffusion  
**Range:** 0~100ppm or 0~300ppm  
**Accuracy:** ±5% FS@25°C, typical ±10% FS@5~50°C  
**Resolution:** 1 ppm  
**Repeatability:** <±3%FS  
**Stability:** <±5%/year@0-100ppm, <±10%/year@0-300ppm  
**Pressure range:** standard atmospheric pressure ±10%  
**Response time (T90):** < 60s  
**Warm-up time:** < 1 min  
**Load Resistance:** ≤500Ω(current output), ≥2kΩ(voltage output)  
**Power:** Current: 18.5~35VDC (R<sub>L</sub>=500Ω); 8.5~35VDC (R<sub>L</sub>=0Ω)  
 Voltage: 16~28VAC/16~35VDC  
**Output:** 4~20mA (2 wires), 0-10VDC, RS485 / Modbus  
**Work environment:** 5~50°C(continuous), 15~90%RH(Non-cond.)  
**Storage Temperature:** -10~55°C  
**Housing:** ABS+PC, ULV-0(CMWL)  
**Protection:** IP33 (CMWL), IP30 (CMWNL)  
**Weight:** 189g (CMWL), 163g(CMWNL)  
**Agency Approval:** CE