

**Description & Features:**

- WCO2 Series carbon dioxide transmitter incorporates high-precision NDIR digital non-dispersive infrared detector as the sensing element
- WCO2 offers high accuracy and good long-term stability
- Large LCD display, analog or RS485 output are available
- Measurement accuracy and consistency < 5%
- Complete protection against overvoltage, reverse polarity and EMC interference
- Customization available for dedicated installations and private labelling
- 5 year warranty

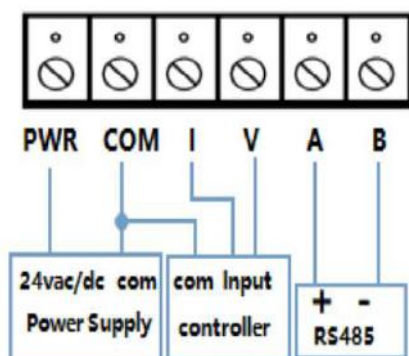
Applications:

- WCO2 is widely used in the measurement and control of carbon dioxide concentrations in various facilities and locations
- Widely used in intelligent HVAC systems in modern buildings, control cabinets, machinery & equipment, train stations, subways, airports, schools and other places
- The product is widely used in HVAC control systems of various types in commercial and government buildings as well as manufacturing and processing facilities

Technical Parameters

Sensing Elements	NDIR sensor with ABC self-calibration function
Measurement Principle	Active gas diffusion
Measuring Range	0-2000 PPM
Accuracy	0-2000 PPM; $\pm 50\text{PPM} \pm 5\% \text{ READING}$ 0-2000 PPM; $\pm 30\text{PPM} \pm 3\% \text{ READING}$ 0-2000 PPM; $\pm 80\text{PPM} \pm 5\% \text{ READING}$
Accuracy Drift	< $\pm 10 \text{ PPM/years}$
Warm-Up Time	<180 s
Response Time	$T_{90} \leq 10 \text{ s}$ (30cc/min, slow flow air)
Operating Temperature	0/50°C (32/122°F) & 0-95%RH, non-condensing
Storage Temperature	-20/80°C (-4/176°F) & 0-95%RH, without condensation
Power Supply	24V AC/DC
Output Signal	4/20mA, 0/10V, RS485 (Modbus RTU)
Display Type	LCD optional
IP Rating	IP30 (Indoor type), IP65 (Ventilation type)
Housing Material	Fireproof ABS + PC
Housing (fire) Rating	V-0 Refer to UL94 standard
Electromagnetic Compatibility	EMC reference GB/T 13926, EN61000-6-2, EN61000-6-3
Product Certification	CE

Wiring Instructions

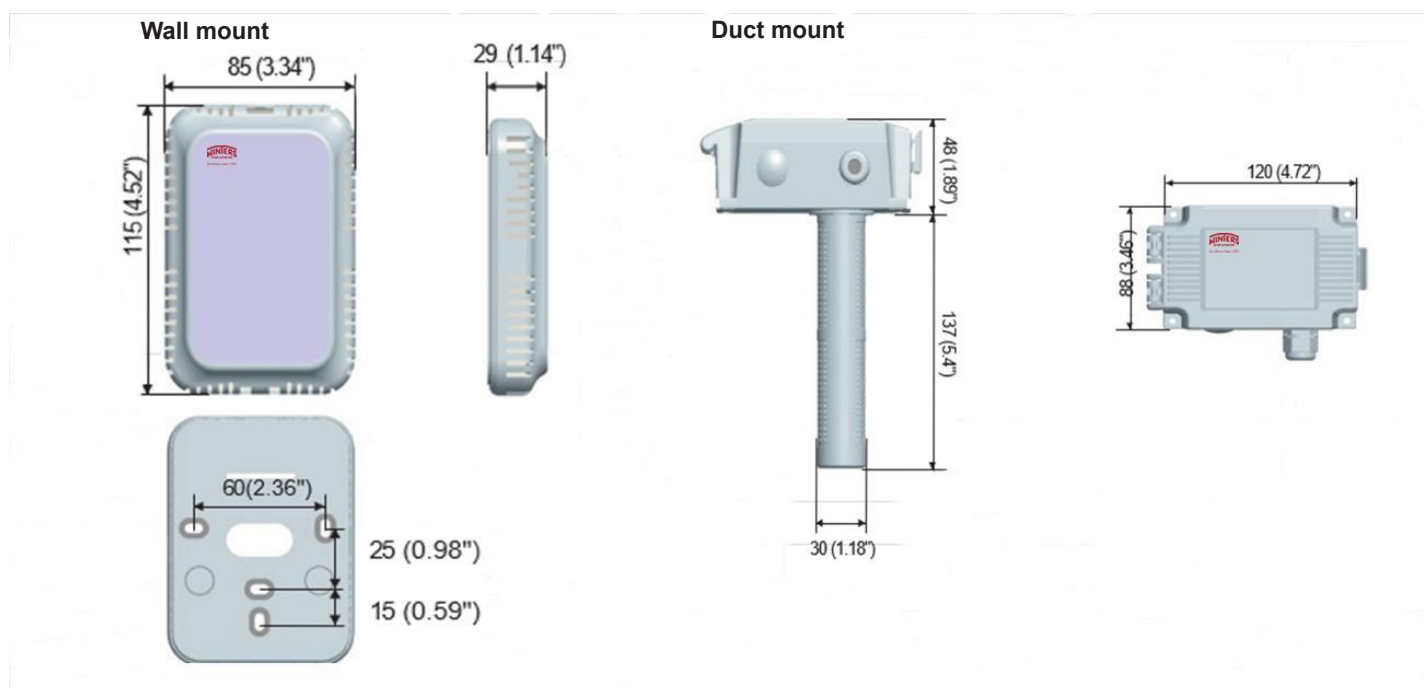


Terminal No.	Definition
1	PWR
2	COM
3	I
4	V
5	A
6	B

Illustrate

Power, positive
 Power, negative (common terminal)
 4-20mA current output+
 0-10V voltage output+
 RS485 Output+
 RS485 output -

Dimensions (mm)



Selection Table

WC02 - Indoor & Ventilation Carbon Dioxide Transmitter

Description	Technical parameters						
Power supply	24 Vac/Vdc	4					
Output signal	4/20 mA		1				
	0/10 V		3				
	RS485		R				
Measuring range	0-2000 PPM ; $\pm 50\text{PPM} \pm 5\%$ READING			1			
	0-2000 PPM ; $\pm 30\text{PPM} \pm 3\%$ READING			2			
	0-5000 PPM ; $\pm 80\text{PPM} \pm 5\%$ READING			3			
	Other ranges			D			
Mounting Type	Wall Mounting Type				W1		
	Ventilation Mounting, 137mm (5.4") stem insertion				V1		
LCD	Without LCD display					-	
	LCD display included					L	
Customization	Special types, labelling etc						Z###

Note:

The conventional measurement range of CO₂ concentration is 0-2000PPM,
 If necessary, it can be extended to 0-5000PPM or 0-10000PPM
 Integrated models are also available incorporating CO, CO₂, PM_{2.5}, PM₁₀, TVOC & CH₂O