

WALL MOUNTED CARBON DIOXIDE TRANSMITTER

Applications:

Omicron carbon Dioxide transmitters are designed for environment monitoring and controlling in industrial and commercial buildings. These transmitters can be used for:

- * Air monitoring of supply, exhaust and return air
- * Air monitoring in critical environment such as outside air
- * Other applications of combustion measurement



Features:

- * High performance semiconductor sensors and circuits, ensure accurate measurement and temperature compensation
- * Good long term stability and reliability
- * 15 Years Sensor Life
- * Fast response
- * Digital technology applied, multiple output optional, over voltage and reverse polarity protection, high reliability and interference capability
- * Fast Response

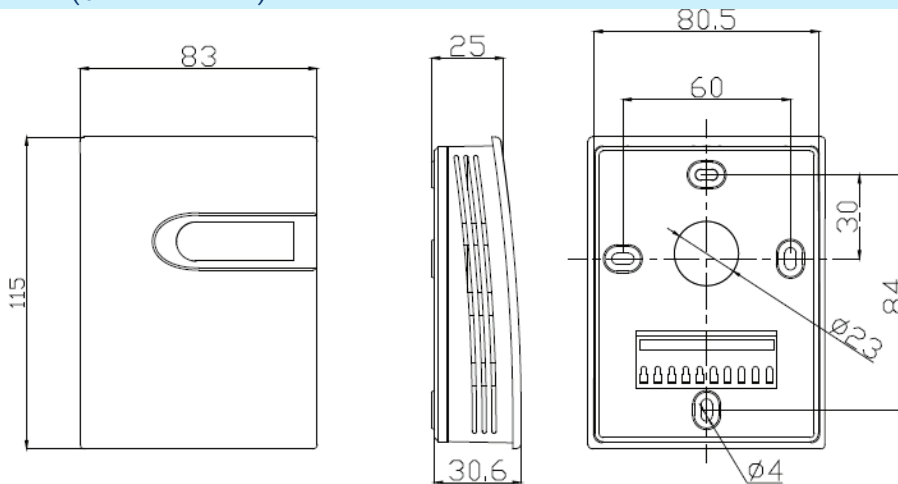
Specifications:

Carbon Dioxide Transmitter

Sensor	:	NDIR
Range	:	0~2000 ppm
Output	:	4~20mA 0~10VDC (Jumper Settable)
Communication	:	Optional Modbus RS485 RTU
Accuracy	:	±5% of F.S (Optionally available for ±3%)
Hysteresis	:	<±1% of F.S
Response time	:	<10s (25°C, in slow air)
Sampling Time	:	1s
Drift	:	<±0.5% of F.S
Power	:	16 - 28 VAC (4 wires) / 16 - 36 VDC
Output Load	:	500 (current), >2K (voltage)
Temperature Limit	:	-20~80°C
Storage Temperature	:	-40~100°C
Housing	:	Fireproof ABS Enclosure
Display	:	Optional LCD Display
Area Of Coverage	:	300 m ² (optionally available upto 750 m ²)
Agency Approval	:	CE
Calibration Protocol	:	COML
Ingress Protection	:	IP32; (Optionally Available for IP54)

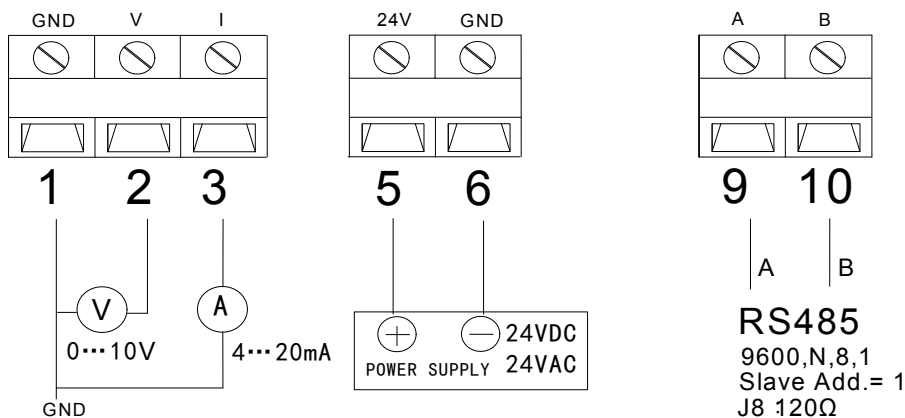
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⚙️ Dimensions (unit : mm):



⚙️ Wiring Method :

Different models have different electrical terminals. Please wire specific model according to the wiring diagram inside the front cover.



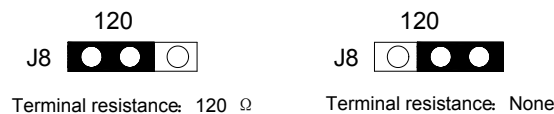
RS485/Modbus communication refers to “CDN series carbon monoxide transmitter Modbus communication instruction”.

RS485 terminal resistance jumper J8 description:

Terminal resistance 120 Ω : left short J8 pin1 and pin2.

Terminal resistance None: right short J8 pin2 and pin3.

As following figure:



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HOW TO ORDER

Basic Model: CDWN CDWN

Accuracy: 0 ±5% 1 ±3% 0

Output: 1 Analog Output (4-20mA / 0-10VDC) B Modbus RS485RTU + Analog Output (4-20mA / 0-10VDC) 1

Display: 0 Without Display 1 LCD Display 0
2 With Display and Touch Keys

IP Rating: - IP 32 1
1 IP54

Ordering Example : CDWN010