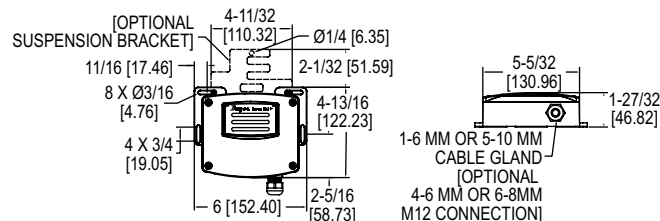


SERIES CDWP

CARBON DIOXIDE TRANSMITTER

NDIR CO₂ Sensor with Universal Outputs in an Industrial Housing



The **Series CDWP Carbon Dioxide Transmitter** accurately monitors the CO₂ concentration in industrial and indoor environments to help achieve energy savings. The CDWP utilizes a rugged IP54 aluminum housing with an exterior gray finish coat that was tested to withstand a 168 hour salt spray corrosion test. This ruggedized housing helps to protect the sensor from splashing liquid and airborne dust or debris making the Series CDWP a great fit for animal husbandry applications and confined feeding operations.

BENEFITS/FEATURES

- No durability concerns with the rugged aluminum housing
- No water ingress or corrosion concerns with the IP54 housing that withstands 168 hour salt spray testing
- Reduce operation costs using a low energy, reliable, and repeatable CO₂ sensor

APPLICATIONS

- Animal husbandry
- Mechanical room
- CO₂ refrigeration monitoring
- Greenhouses

SPECIFICATIONS

Sensor: NDIR.

Range: CO₂: 0 to 2000, 0 to 5000, or 0 to 10000 PPM (depending on model).

Accuracy: CO₂: ±40 PPM + 3% of reading (2000 PPM); ±50 PPM + 5% of reading (5000 PPM); ±50 PPM + 10% of reading (10000 PPM).

Temperature Dependence: ±8 PPM/°C at 1100 PPM (2000 and 5000 PPM); N/A (10000 PPM).

Non-Linearity: 16 PPM (2000 and 5000 PPM); N/A (10000 PPM).

Pressure Dependence: 0.13% of reading per mm of Hg (2000 and 5000 PPM); N/A (10000 PPM).

Response Time: 300 s (T₆₃) (2000 and 5000 PPM); 2 min for 90% step change (10000 PPM).

Temperature Limits: 32 to 122°F (0 to 50°C).

Humidity Limits: 10 to 95% RH (non-condensing, 2000 and 5000 PPM); 0 to 85% RH (non-condensing, 10000 PPM).

Power Requirements: 16-35 VDC or 19-28 VAC.

Power Consumption: Average: 2 w; Peak: 3.75 w.

Output: Current: 4-20 mA (max. 500 Ω); Voltage: 0-5 VDC or 0-10 VDC (min. 500 Ω).

Enclosure Rating: IP54.

Mounting Orientation: Vertically, with electrical connections pointing downward.

Weight: 26.24 oz (744 g).

Compliance: CE.

MODEL CHART

Model	Range	Mounting Style	Cable Gland
CDWP-05W-C1	0 to 5,000 PPM	Wall	1 to 6 mm
CDWP-05W-C5	0 to 5,000 PPM	Wall	5 to 8 mm
CDWP-10W-C1	0 to 10,000 PPM	Wall	1 to 6 mm
CDWP-10W-C5	0 to 10,000 PPM	Wall	5 to 8 mm
CDWP-02W-C5	0 to 2,000 PPM	Wall	5 to 8 mm

ACCESSORIES

Model	Description
A-CDWP-H	Suspended mount bracket
A-CDWP-L	Replacement lid with filter material