

## SERIES CDWP

# CARBON DIOXIDE TRANSMITTER

## NDIR CO<sub>2</sub> Sensor with Universal Outputs in an Industrial Housing



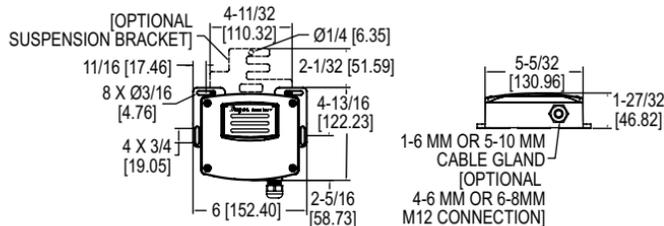
The **Series CDWP Carbon Dioxide Transmitter** accurately monitors the CO<sub>2</sub> concentration in industrial and indoor environments to help achieve energy savings. For increased sensor life and accuracy, a single-beam dual-wavelength non-dispersive infrared (NDIR) sensor is used to eliminate light source aging effects. This sensing technology provides the highest level of accuracy compared to Automatic Baseline Correction methods, which can unintentionally shift the calibration based on CO<sub>2</sub> levels and barometric pressure conditions.

### 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
- Consistent CO<sub>2</sub> measurements over time due to single-beam dual-wavelength technology
- Reduced downtime as the sensor has built in calibration ports eliminating the need to remove it from operation

### APPLICATIONS

- Animal husbandry
- Mechanical room
- CO<sub>2</sub> refrigeration monitoring
- Greenhouses



### SPECIFICATIONS

**Sensor:** Single beam, dual-wavelength NDIR.

**Range:** CO<sub>2</sub>: 0 to 2000, 0 to 5000, or 0 to 10000 PPM (depending on model).

**Accuracy:** CO<sub>2</sub>: ± 40 PPM ±3% of reading.

**Temperature Dependence:** ±8 PPM/°C at 1100 PPM.

**Non-Linearity:** 16 PPM.

**Pressure Dependence:** 0.13% of reading per mm of Hg.

**Response Time:** 300 s (T<sub>63</sub>).

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

**Humidity Limits:** 10 to 95% RH (non-condensing).

**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 points 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-05H-C1	0 to 5,000 PPM	Hang	1 to 6 mm
CDWP-05H-C5	0 to 5,000 PPM	Hang	5 to 8 mm
CDWP-10H-C1	0 to 10,000 PPM	Hang	1 to 6 mm
CDWP-10H-C5	0 to 10,000 PPM	Hang	5 to 8 mm

### ACCESSORIES

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