

## SERIES CDWP | CARBON DIOXIDE TRANSMITTER

### FEATURES/BENEFITS

- IP54 aluminum housing
- Durable and rugged housing tested to withstand 168 hour salt spray test
- Single-beam dual-wavelength sensor automatically corrects for aging effects
- Measures unfiltered light intensity directly and eliminates error from incorrect assumptions of gas concentration in theoretical logic assumption methods
- Universal outputs to work with any building management



### APPLICATIONS

- Animal Husbandry
- Mechanical Room
- CO<sub>2</sub> Refrigeration Monitoring
- Greenhouses

### DESCRIPTION

The **Series CDWP Carbon Dioxide Transmitters** accurately monitor 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.

<b>Sensor</b>	Single beam, dual-wavelength NDIR.
<b>Range</b>	CO <sub>2</sub> : 0 to 2000, 0 to 5000, or 0 to 10000 ppm (depending on model).
<b>Accuracy</b>	CO <sub>2</sub> : $\pm 40$ ppm $\pm 3\%$ of reading.
<b>Temperature Dependence</b>	$\pm 8$ ppm/ $^{\circ}$ C at 1100 ppm.
<b>Non-Linearity</b>	16 ppm.
<b>Pressure Dependence</b>	0.13% of reading per mm of Hg.
<b>Response Time</b>	300 s ( $\tau_{63}$ ).
<b>Temperature Limits</b>	32 to 122 $^{\circ}$ F (0 to 50 $^{\circ}$ C).
<b>Humidity Limits</b>	10 to 95% RH (non-condensing).
<b>Power Requirements</b>	16 to 35 VDC or 19 to 28 VAC.
<b>Power Consumption</b>	Average: 2 w; Peak: 3.75 w.
<b>Output</b>	Current: 4 to 20 mA (max. 500 $\Omega$ ); Voltage: 0 to 5 VDC or 0 to 10 VDC (min. 500 $\Omega$ ).
<b>Enclosure Rating</b>	IP54.
<b>Mounting Orientation</b>	Vertically, with electrical connection pointing downwards.
<b>Weight</b>	26.24 oz (744 g).
<b>Agency Approvals</b>	CE.



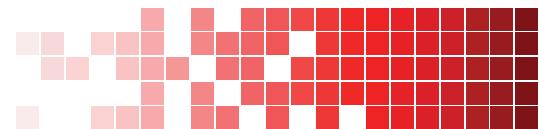
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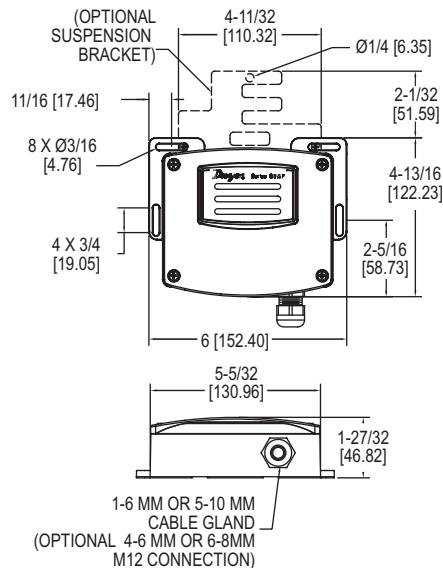
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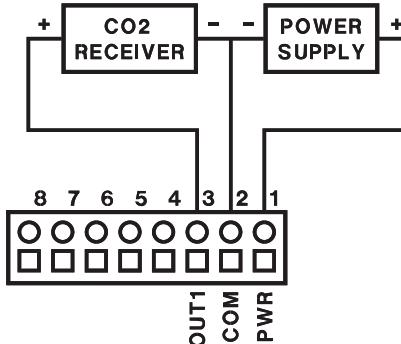
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## DIMENSIONS



## WIRING DIAGRAM



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

**SERIES** CDWP

CDWP: Industrial carbon dioxide transmitter

**GAS CONCENTRATION RANGE**

- 02:** 2000 PPM
- 05:** 5000 PPM
- 10:** 10000 PPM

-05 W -C1 -FC

### OPTIONS

**-FC:** Factory calibration certificate

### ELECTRICAL CONNECTION

- C1:** Cable gland 1 to 6 mm cable
- C5:** Cable gland 5 to 8 mm cable
- M4:** M12 connection 4 to 6 mm cable
- M6:** M12 connection 4 to 8 mm cable

### MOUNTING CONFIGURATION

- W:** Wall mount
- M:** Suspended mount

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