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_2 Refrigeration Monitoring
- Greenhouses

DESCRIPTION

The **Series CDWP Carbon Dioxide Transmitters** accurately monitor the CO_2 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_2 levels and barometric pressure conditions.

Sensor	Single beam, dual-wavelength NDIR.
Range	CO_2: 0 to 2000, 0 to 5000, or 0 to 10000 ppm (depending on model).
Accuracy	CO_2: ± 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 (τ_{63}).
Temperature Limits	32 to 122°F (0 to 50°C).
Humidity Limits	10 to 95% RH (non-condensing).
Power Requirements	16 to 35 VDC or 19 to 28 VAC.
Power Consumption	Average: 2 w; Peak: 3.75 w.
Output	Current: 4 to 20 mA (max. 500 Ω); Voltage: 0 to 5 VDC or 0 to 10 VDC (min. 500 Ω).
Enclosure Rating	IP54.
Mounting Orientation	Vertically, with electrical connection pointing downwards.
Weight	26.24 oz (744 g).
Agency Approvals	CE.

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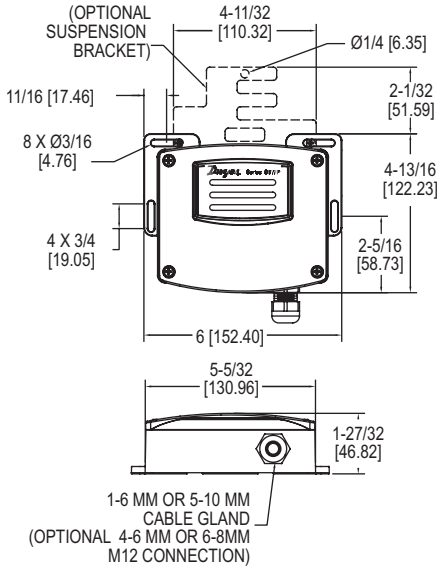
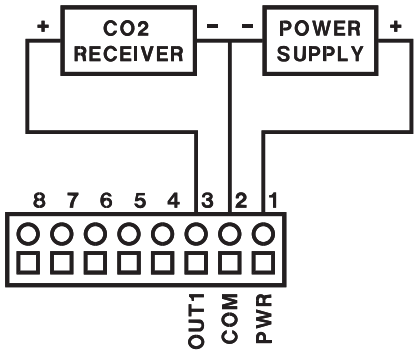
DIMENSIONS



WIRING DIAGRAM



HOW TO ORDER

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

CDWP **-05** **W** **-C1** **-FC**

SERIES
CDWP: Industrial carbon dioxide transmitter

GAS CONCENTRATION RANGE
-02: 2000 PPM
-05: 5000 PPM
-10: 10000 PPM

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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