



CO2-010-D

## CO2 DUCT

### *Carbon Dioxide Sensor*

The CO2-010-D monitors carbon dioxide from 0 to 2000 ppm for duct mount applications. They feature analog outputs (see order grid for output options) with a patented ABC Logic™ self-calibration system. The concentration of carbon dioxide is measured using a Single Beam, Non-Dispersive Infrared (NDIR) Absorption sensing method. They will indicate one of five approximate ppm levels. These units should not be used in environments such as greenhouses, wineries, breweries. They should also be avoided in areas where industrial sources of carbon dioxide are present or in applications where the space is left unoccupied for less than 4 hours a day.

The CO2-010-D is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, [www.workaci.com](http://www.workaci.com).



**SPECIFICATIONS**

|                                  |  |
|----------------------------------|--|
| <b>Supply Voltage</b>            | 18 to 30 VAC RMS, 50/60 Hz or 18 to 42 VDC       |
| <b>Power Consumption (Duct)</b>  | Typical, 1.65W Peak, 0.65W Average @ 42 VDC      |
| <b>Measurement Range</b>         | 0 to 2000 ppm                                    |
| <b>CO2 Output Signal (Duct)</b>  | 0 to 10 VDC (100Ω output impedance)              |
| <b>Accuracy (Duct)</b>           | +/- 40 ppm +3% of Reading @ 72°F (22°C)          |
| <b>Non-Linearity</b>             | < 1% of FS @ 72°F (22°C)                         |
| <b>Stability</b>                 | < 2% FS over life of sensor (15 Years Typical)   |
| <b>Temperature Dependence</b>    | 0.2% of Full Scale per °C                        |
| <b>Pressure Dependence</b>       | 0.135% of reading per mm Hg                      |
| <b>Response Time (Duct)</b>      | 3 minutes typical for 90% Step change            |
| <b>Operating Temp/ RH Range</b>  | 32 to 122°F (0 to 50°C)/0 to 95%, non-condensing |
| <b>Sensor Coverage Area</b>      | 7,500 sq. ft. maximum                            |
| <b>Sensing Technology</b>        | Single beam infrared sensing technology (NDIR)   |
| <b>Product Dimensions (Duct)</b> | (L) 3.05" (W) 3.05" (H) 5.70"                    |

**ORDERING**

Select CO2-010-D as a Gas Type (A).

**A Gas Type**

- CO2-010-D** (Duct) (0 to 10 VDC)

**BUILD PART NUMBER**

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered.



EXAMPLE: CO2-010-D