

Product Data

A/CO₂ Series

Carbon Dioxide Sensor 4 to 20 mA 0 to 10 VDC

Product Description

The A/CO₂ transmitters monitor carbon dioxide (CO₂) levels in industrial and living environments from 0 to 10,000 ppm. The concentration of CO₂ is a good indication of the indoor air quality (IAQ). All units come with both a 4-20 mA and 0-10 VDC analog output as well as a relay output with an adjustable setpoint and deadbank (Hysteresis). An optional LCD display may be added to the room unit while all the duct configurations come standard with the LCD display.

The concentration of CO₂ is measured using a Single Beam Absorption Infrared sensing method. The CO₂ transmitter is also equipped with a patented ABC LogicTM (Automatic Background Calibration) software. The ABC LogicTM software virtually eliminates the need for manual calibration in applications where the indoor CO₂ level drops to outside levels during unoccupied periods. The ABC LogicTM will not work properly in applications where the space is left unoccupied for less than 4 hours a day or where there are industrial sources of CO₂.

The room transmitter is encased in a white enclosure while the duct sensor is enclosed in a black case that is UL94-5V rated and includes a pitot tube.

All units come with a two year factory warranty.

Product Specifications

Supply Voltage	18 to 30 VAC, 50/60 Hz Half-Wave Rectified +18 to 42 VDC, Polarity Protected
Power Consumption	1.75 VA average power, 2.75 VA peak power
CO ₂ Analog Output Signals	4 to 20 mA (RL max = 500 Ohms)
	0 to 10 VDC (100 Ohms output impedance)
Accuracy @ 72°F (22°C)	+/- 40 ppm + 3% of reading
Response Time	0 to 90% < 2 minutes
Operating Temperature	32 to 122°F (0 to 50°C)
Operating RH Range	0 to 95% RH, non-condensing
CO ₂ Measurement Range	0 to 2000 ppm (Factory Set), Adjustable to 10,000 ppm
Digital I/O	RS232 Interface for use with optional PC UIP Kit #2072
Relay Output	N/O or N/C 2A max @ 24VAC contact Rating, Factory
_	Set at 1000 ppm with 50 ppm Hysteresis
Calibration Time	5 Years / Zero ppm with a 50 ppm Hysteresis
Sampling Method	Room: Single Beam Infrared Diffusion
Digital Display	0 to 10,000 ppm (Optional)

Carbon Dioxide



Attributes:

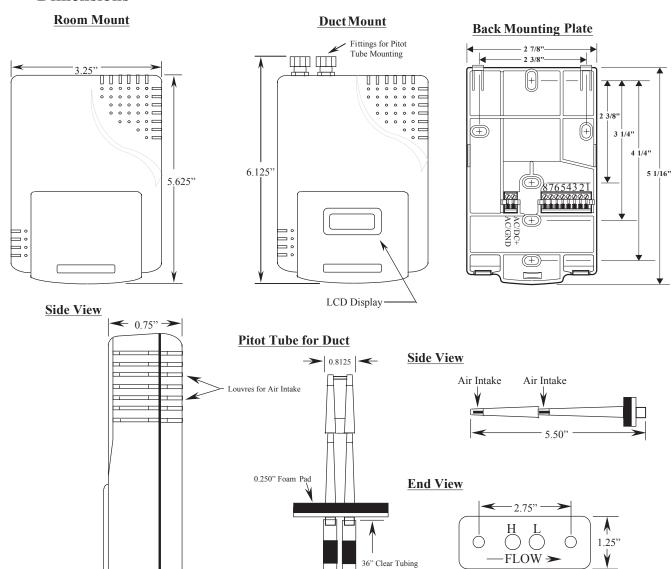
- **■LCD Display**
- Analog and Relay outputs
- •Self calibration system
- ●CE, FCC part 15 class B California Energy Commission Compliant
- ●Long life span (15 years typical)

Applications:

- **●Schools**
- Large Office Buildings
- Auditoriums/Gymnasiums
- Shopping Malls
- Residential
- **●**Theatres

Wiring Diagrams available

Dimensions



Ordering Information

← 1.100" →

(UIP Kit #2072)

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