



AEROSENSE™ Duct Mount CO2 Transmitter

Aerosense is pleased to release new CO2 Transmitters for indoor air quality and energy management applications. Aerosense A8031 duct Mount CO2 Transmitter offers accuracy, versatility and affordability. This product has a compact footprint, is easy to install and easier to use. It remains accurate over its expected life cycle.



APPLICATION:

A8031 CO2 Transmitters can be used in a broad range of applications that includes indoor air quality monitoring in buildings to provide an indication of occupancy levels and drive a DCV(Demand Control Ventilation) accordingly. This helps conserve energy while maintaining indoor air quality levels.

FEATURES

- One of the smallest of footprints offered in the market with easy installation. With instructions and mounting hardware is included.
- Suitable ideally for OEMs can be accommodated in ducts as small as 6 inches(152 mm) diameter
- Standard 0 - 10 V output.
- Gas permeable, water-resistant diffusion filter prevents particulate and water contamination of the sensor.
- Calibration Guarantee for 10 years.

DESCRIPTION:

Aerosense A8031 duct mount CO2 transmitter is one of the smallest package available. The A8031 is a CO2 transmitter designed to be installed in HVAC return air ducts. The size of the board and the dimensions of the case have been optimized to place the transmitter in small, i.e. 6 inch [15.24 cm] diameter, return air ducts. This product offers a sleek design, a simple analog output, and it is easy to install. The transmitter includes mounting hardware and installation instructions.

Measurement Range

0-2000 ppm factory calibrated

Temp Dependence

0.2% of full scale per °C

Non-linearity

<1% of full scale @ 22°C (72°F)

*Calibration

Sensors will be calibrated at zero and span at the factory. Calibration in the field will not be required. Sensors will be shipped with ABC Logic™ turned on.

Response Time

3 minutes typical for 90% step change at low duct speeds

Warm-up Time

< Two minutes (operational); 10 minutes to achieve maximum accuracy

Storage Conditions

-20°C to 70°C (-4°F to 158°F)

Duct Air Velocity

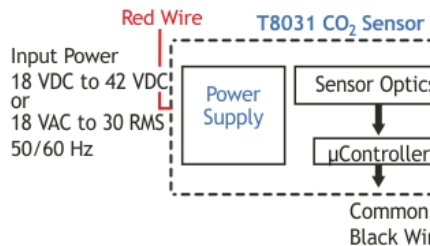
0 to 1500 ft/min (0-450 meter/min)

*Accuracy

±40 ppm +3% of reading @ 22°C (72°F) when compared with a factory certified reference

Pressure Dependence

0.13% of reading per mm of mercury



Operating Conditions

Temperature: 0°C to 50°C (32°F to 122°F)
Humidity: 0 to 95% relative humidity, non-condensing

Output

Analog 0 to 10 VDC (100 ohm output impedance)

Power Supply Requirements

18 to 30 VAC RMS, 50/60 Hz or 18 to 42 VDC, polarity protected.

Power Consumption

Typical values (1.65 watts peak, 0.65 watts avg. @ 42 VDC)

*Note: The Aerosense A8031 product line offers patented ABC Logic™ software for self correction of drift to better than ±20 ppm per year. The system is virtually free of maintenance and typically has a lifetime of more than 10 years.

PHYSICAL REQUIREMENTS: Dimensions

Length : 3.83 in (9.72 cm) + 0.74 in (1.87 cm) mounting tab

Width : 1.17in (2.97 cm)

Height : 0.94 in (2.38 cm)

All Trademarks acknowledged.

AEROSENSE™

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