

# CO<sub>2</sub> Duct Sensor and CO<sub>2</sub> Wall Sensor

**Figure 1: CO<sub>2</sub> Duct Sensor**



**Figure 2: CO<sub>2</sub> Wall Sensor**



The wall and duct-mounted carbon dioxide (CO<sub>2</sub>) sensors are designed especially for demand-controlled ventilation zone applications. The sensor is compatible with Trane VAV and VariTrac® controllers. Long-term stability and reliable sensing performance come from advanced silicon based Non-Dispersive Infrared (NDIR) technology. When connected to a building automation system and the appropriate ventilation equipment, the Trane CO<sub>2</sub> sensors measure and record carbon dioxide in parts-per-million (ppm) in occupied building spaces. These carbon dioxide measurements are typically used to identify under-ventilated building zones and to override outdoor airflow beyond design ventilation rates if the CO<sub>2</sub> exceeds acceptable levels. Please visit [trane.com](http://trane.com) or contact a local Trane representative for more information.

## Features

- Wall- or Duct-mounted
- Measures CO<sub>2</sub> in ppm.
- NDIR Sensing Technology
- Demand-Controlled Ventilation

**Table 1: Sensor Specifications**

	Duct	Wall
Measuring Range	0–2000 parts per million (ppm)	
Accuracy at 77°F (25°C)	< ± (30 ppm CO <sub>2</sub> + 3% of reading)	< ± (40 ppm CO <sub>2</sub> + 3% of reading)
Recommended calibration interval	5 years	
Response time	1 minute (0-63%)	
Operating Temperature	23 to 113°F (-5 to 45°C)	59 to 95°F (15 to 35°C)
Storage Temperature	-4 to 158°F (-20 to 70°C)	
Humidity Range	0–85% relative humidity (RH)	
Output Signal (jumper selectable)	4-20 mA, 0–20 mA, 0–10 VDC	
Resolution of analog outputs	10 ppm CO <sub>2</sub>	
Power Supply	Nominal 24 VAC	
Power Consumption	< 5 VA	
Housing Material	ABS plastic	
Dimensions	3 1/8" x 3 1/8" x 7 3/4" (80 mm x 80 mm x 200 mm)	4 1/4" x 3 1/8" x 1 7/16" (108 mm x 80 mm x 36 mm)

