

Carbon Dioxide Sensor

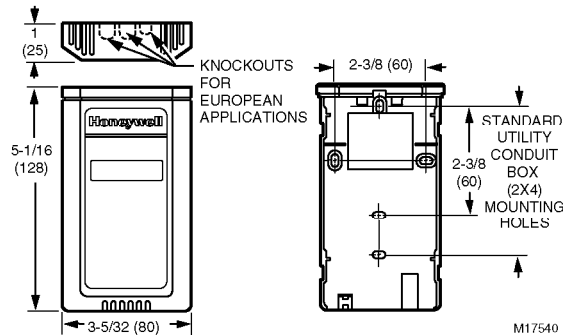
C7232 Carbon Dioxide (CO₂) Sensors



The Carbon Dioxide (CO₂) Sensors and Controllers are stand-alone carbon dioxide (CO₂) sensors for use in determining ventilation necessity with HVAC controllers. The sensor measures the CO₂ concentration in the ventilated space or duct. The sensors are used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of CO₂ in the space.

- Models available with LCD that provides sensor readings and status information.
- Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas.
- Gold-plated sensor provides long-term calibration stability.
- C7232 provides voltage or current output based on CO₂ levels.
- Models available with SPST relay output.
- Proportional plus Integral (P+I) control algorithm.
- Used for CO₂ based ventilation control (Demand Control Ventilation (DCV)).
- Automatic Background Calibration (ABC) algorithm based on long-term evaluation reduces required typical zero-drift check maintenance.
- Digital input with programmable delay time for occupancy function using a sensor, push-button, or switch.

Dimension Diagrams



Power Supply (V): 24 Vac (+/- 20%)

Frequency: 50 Hz, 60 Hz

Carbon Dioxide Range: 0 to 2000 ppm

Operating Temperature Range: 32 F to 122 F (0 C to 50 C)

Timing (Response): 2 minutes

Analog Output: 0/2 to 10Vdc or 0/4 to 20mA w/ one relay output

Relay Output: One: Normally Open SPST

Accuracy: 5% full scale,

Type: Non-dispersive Infrared (NDIR)

Product Number	Display	Approximate Dimensions		Mounting	Description	Includes
		(inch)	(mm)			
C7232A1008	Yes	5 1/16 in. high, 3 11/16 in. wide, 2 in. deep	128 mm high, 80 mm wide, 25 mm deep	Wall mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	Honeywell Logo
C7232A1016	No	5 1/16 in. high, 3 5/32 in. wide, 2 in. deep	128 mm high, 80 mm wide, 25 mm deep	Wall mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	Honeywell Logo
C7232A1024	Yes	5 1/16 in. high, 3 5/32 in. wide, 2 in. deep	128 mm high, 80 mm wide, 25 mm deep	Wall mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	No Honeywell Logo
C7232B1006	Yes	5 5/8 in. high, 3 5/16 in. wide, 3 7/16 in. deep, plus 8 in. long sensing tube	142 mm high, 84 mm wide, 87 mm deep, plus 203 mm sensing tube	Duct Mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	Honeywell Logo
C7232B1014	No	5 5/8 in. high, 3 5/16 in. wide, 3 7/16 in. deep, plus 8 in. long sensing tube	142 mm high, 84 mm wide, 87 mm deep, plus 203 mm sensing tube	Duct Mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	Honeywell Logo
C7232B1022	Yes	5 5/8 in. high, 3 5/16 in. wide, 3 7/16 in. deep, plus 8 in. long sensing tube	142 mm high, 84 mm wide, 87 mm deep, plus 203 mm sensing tube	Duct Mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	No Honeywell Logo
C7232A1032	No	6 5/8 in. high, 3 5/16 in. wide, 3 7/16 in. deep, plus 8 in. long sensing tube	128 mm high, 80 mm wide, 25 mm deep	Wall mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	No Honeywell Logo
C7232B1030	No	7 5/8 in. high, 3 5/16 in. wide, 3 7/16 in. deep, plus 8 in. long sensing tube	142 mm high, 84 mm wide, 87 mm deep, plus 203 mm sensing tube	Duct Mounted	Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR)	No Honeywell Logo

* TRADELINE models • SUPER TRADELINE models