

Carbon Dioxide (CO₂) Sensors

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
- SPST relay output
- 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

Description: Carbon Dioxide Sensor, Non-dispersive Infrared (NDIR), Wall Mount, LCD Display, Honeywell Logo
Carbon Dioxide Range: 0 to 2000 ppm, adjustable
Analog Current Output: 0/2 - 10 Vdc or 0/4 - 20 mA selectable, w/ one relay output
Electrical Connections: Six leadwires, 20-gauge, 8 in. long
Contact Ratings: 1 A @ 50 Vac/24 Vdc

Relay Output: One: Normally Open SPST
Voltage: 24 Vac/dc ±20%,
Frequency: 50 Hz; 60 Hz
Response Time: 1 minute
Sensor Type: Non-dispersive Infrared (NDIR)
Operating Temperature Range: 32 F to 122 F (0 C to 50 C)
Accuracy: (5% full scale)

Product Number	Display	Mounting	Dimensions, Approximate		Includes
			(inch)	(mm)	
C7232A1008/U	Yes	Wall mount	5 1/16 in. high x 3 11/16 in. wide x 2 in. deep	128 mm high x 80 mm wide x 25 mm deep	Honeywell Logo
C7232A1016/U	No	Wall mount	5 1/16 in. high x 3 5/32 in. wide x 2 in. deep	128 mm high x 80 mm wide x 25 mm deep	Honeywell Logo
C7232A1024/U	Yes	Wall mount	5 1/16 in. high x 3 5/32 in. wide x 2 in. deep	128 mm high x 80 mm wide x 25 mm deep	No Honeywell Logo
C7232A1032/U	No	Wall mount	5 1/16 in. high x 3 5/32 in. wide x 2 in. deep	128 mm high x 80 mm wide x 25 mm deep	No Honeywell Logo
C7232B1006/U	Yes	Duct mount	5 5/8 in. high x 3 5/16 in. wide x 3 7/16 in. deep x plus 8 in. long sensing tube	142 mm high x 84 mm wide x 87 mm deep x plus 203 mm sensing tube	Honeywell Logo
C7232B1014/U	No	Duct mount	5 5/8 in. high x 3 5/16 in. wide x 3 7/16 in. deep x plus 8 in. long sensing tube	142 mm high x 84 mm wide x 87 mm deep x plus 203 mm sensing tube	Honeywell Logo
C7232B1022/U	Yes	Duct mount	5 5/8 in. high x 3 5/16 in. wide x 3 7/16 in. deep x plus 8 in. long sensing tube	142 mm high x 84 mm wide x 87 mm deep x plus 203 mm sensing tube	No Honeywell Logo
C7232B1030/U	No	Duct mount	5 5/8 in. high x 3 5/16 in. wide x 3 7/16 in. deep x plus 8 in. long sensing tube	142 mm high x 84 mm wide x 87 mm deep x plus 203 mm sensing tube	No Honeywell Logo