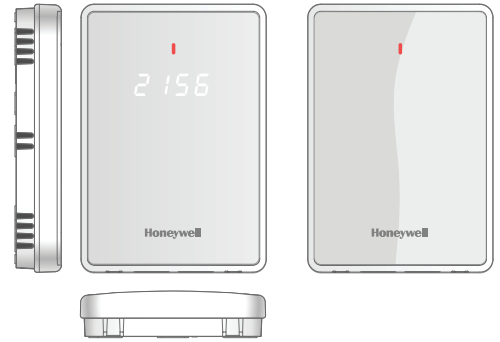# C7233, C7263
CO2 SENSORS

Product Datasheet

The new C7233A and C7263A series wall mount CO2 sensors are used to provide analog or digital output signals for demand control ventilation systems. They ensure improved indoor air quality while minimizing energy costs.

The C7263A CO2 sensor also provides accurate temperature sensing.

Models shown with and without four digit White LED dispaly along with red LED, indicating exceeding threshold value .

FEATURES AND BENEFITS

LED DISPLAY

Models available with flush face membrane and attractive white LED CO2 ppm display. All variants have red LED notification activated when CO2 level exceeds preset threshold.

PROGRAMMABLE SPST RELAY

Programmable CO2 threshold setting to activate relay for ventilation signal or damper control.

SELF- CALIBRATION

Automatic Background Calibration (ABC) algorithm ensures accuracy for 10 years or more.

SELECTABLE OUTPUT

Analog output range is selectable 0/2 - 10 VDC and provides accurate proportional linear signal though entire sensing range 0 - 2000 ppm.

ADVANCED SENSING

Highly accurate and reliable Non-Dispersion Infrared (NDIR) technology for CO2 sensing.

ELEGANT DESIGN

Ultra compact size and elegant design with easy cleaning via smooth front membrane design.

IMPROVED VENTILATION

Effective CO2 sensing supports demand controlled ventilation to balance indoor air quality with energy savings.

TEMPERATURE SENSING

Optional accurate temperature sensor variant is available.

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TECHNICAL SPECIFICATIONS

ENVIRONMENTAL AND MOUNTING

PARAMETER	DETAILS
Mounting Positions	Wall Mounted
Operating temperature	+32ºF to +122ºF (0ºC to +50ºC)
Storage temperature	4ºF to +158ºF (-20ºC to +70ºC)
Relative Humidity	0-95% RH (non- condensing)
Dimensions for all Models (L X W X H) inch(mm)	5-1/16 (128) X 3-5/32 (80) X 1 (25)
Mounting	Vertical surface with standard single-gang junction box.

SENSOR PERFORMANCE RATING

PARAMETER	DETAILS
Response time	<20 seconds
Measurement Range	0-2000 ppm
CO2 Relay/LED Alert Threshold Settings	800,1000, 1100,1200 ppm
Temperature sensor (C7263A1008)	20K ohm NTC Type
Accuracy	± (30 ppm +3% of reading)* with in the range 0-2000 ppm ± (75 ppm at a 600 - 1000 ppm)**
Temperature Accuracy	±(0.2 ºC) with in the range 13-29 ºC

ELECTRICAL RATINGS

PARAMETER	DETAILS
Power Supply	24 Vac/dc ±20%, 50/60 Hz (Class 2)
Max.Power Consumption	3W
Peak Current	(20 ms): 600 mA
Relay Contact Rating	1A at 50Vac/24 Vdc
Linear Analog Output Voltage	0/2-10 Vdc (resistive load greater than 5000 ohms).
Linear Analog Output Current	4-20 mA (resistive load less than 500 ohms)
Wiring Connections	Terminals: 24 AWG Maximum

* This product complies with CA Title 24, Part 6, CEC Standard for Residential and Non-Residential Buildings-2016, when installed according to instructions.
** When measured at sea level and 25 ºC. Display are accurate and meet CA Title 24 , Part 6, CEC Standard - CO2.
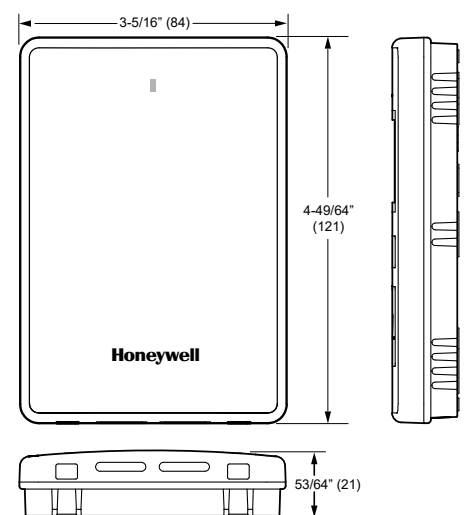
SENSOR CONFIGURATIONS

Product	Temperature Sensor	Display	Honeywell Branded
C7233A1008		✔	✔
C7233A1016			✔
C7233A1024		✔	
C7263A1008	✔	✔	✔

LED INDICATOR

LED indicator turns on when the relay value is above the threshold value.

LED indicator turns off when the value drops 100 ppm below the threshold value .

DIMENSION DRAWING

3-5/16" (84)
4-49/64" (121)
53/64" (21)

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All dimensions are in inches (mm).

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