"24/7" CO_2 Room Sensor, BAPI-Stat 4 Enclosure

Air Quality Sensors

Features & Options

- Automatic Air Pressure and Temperature Compensation
- Optimized for Continuously Occupied Areas

The BAPI "24/7" CO_2 Sensor in the BAPI-Stat 4 Enclosure is an accurate and reliable way of incorporating demand controlled ventilation into a building's HVAC strategy. It measures the CO_2 in a range of 0 to 2,000 ppm with a field selectable output of 0 to 5 or 0 to 10 VDC.

The non-dispersive infrared (NDIR) technology of the "24/7" unit has been optimized for areas that are continuously occupied. It features a dual-channel optical system and three-point calibration process for enhanced stability, accuracy and reliability.

The BAPI unit also has continuous automatic air pressure compensation. Air pressure changes from altitude or weather patterns can affect the output of CO_2 sensors, even putting them outside of their specified accuracy. The BAPI unit has a built-in barometric sensor that continuously compensates the output for accurate readings despite the weather or the altitude of the installation. Because of this feature, the BAPI CO_2 sensor received a 2012 AHR Expo Innovation Award.

Optional indication of the CO_2 level as "Good, Fair or Poor" is available as a three-color LED on the front of the unit.

"24/7" CO_2 Sensors in the BAPI-Stat 4 Enclosure

The bottom unit has the CO_2 Level of "Good, Fair or Poor" shown by a 3-color LED.

Specifications

Power:
18 to 28 VAC, 2 VA Max
12 to 32 VDC, 200 mA Max
(12 VDC Recommended)

Sensing Elements:
CO_2 – Dual Channel Non-Dispersive Infrared (NDIR)

Selectable Output:
0 to 2,000 PPM CO_2 at 0 to 5 or 0 to 10 VDC

Termination: 3 Terminals, 16 to 22 AWG

Wiring: 2 Pair

Operating Environment:
32 to 122°F (0 to 50°C)
0 to 95%RH non-condensing

Enclosure Material:
ABS Plastic, Material Rated UL94V-O

CO_2 Detection Range: 0 to 2000 ppm

Start-Up Time: 10 Minutes

Response Time:
Less Than 5 Minutes (after Start-Up Time)

Mounting: 2"x4" J-Box or drywall – screws provided

CO_2 Accuracy: 75ppm

Optional LED CO_2 Level Indicator:
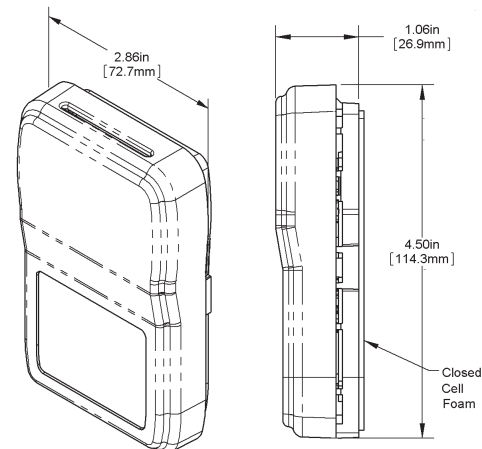Good, Green < 1,000 PPM
Fair, Orange = 1,000 to 1,500 PPM
Poor, Red > 1,500 PPM

Certifications: RoHS

Warranty Period:
2 Years from manufacture date

"24/7" CO_2 Sensor in the BAPI-Stat 4 Enclosure

Ordering Information			CO2 "24/7" Room Sensor in the BAPI-Stat 4 Enclosure for Continuously Occupied Areas	
BA/BS4				
	CO$_2$ Output			
	-DCD05		CO$_2$ as 0 to 2,000 PPM, 0 to 5 VDC output, Dual Channel Calibration for buildings that are continuously occupied	
	-DCD10		CO$_2$ as 0 to 2,000 PPM, 0 to 10 VDC output, Dual Channel Calibration for buildings that are continuously occupied	
		CO$_2$ Level Indication (Must select one)		
		-LED	Green/Orange/Red LED on Logo Plate to Indicate CO$_2$ PPM Level. Includes Legend for Good, Fair and Poor.	
		-BNK	No LED, No Legend	
EXAMPLE				
BA/BS4	-DCD05	-LED		
Example Part Number: BA/BS4-DCD05-LED				
Your Part Number:				

Call BAPI if you have questions about the above ordering/pricing grid or the configuration of the product you are ordering.