## CO<sub>2</sub> Room Sensor, BAPI-Stat 3 Enclosure

Air Quality Sensors

Rev. 10/14/14



## Features & Options

- Automatic Barometric Pressure and Temperature Compensation
- Optional Temperature, Temperature Setpoint, Override and Humidity
- Optimized for Periodically Unoccupied or Continuously Occupied Areas

The BAPI CO<sub>2</sub> Sensor is an accurate and reliable way of incorporating demand controlled ventilation into a building's HVAC strategy. It measures the CO<sub>2</sub> in a range of 0 to 2,000 ppm with a field selectable output of 0 to 5 or 0 to 10 VDC.

The Single Beam (ACD) unit has been optimized for periodically unoccupied areas and features automatic background calibration over a long time period to reduce drift. The Dual Channel (DCD) "24/7" unit has been optimized for continuously occupied areas and features a three-point calibration process for enhanced stability, accuracy and reliability.

Air pressure changes from altitude or weather patterns can affect the output of CO<sub>2</sub> 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 altitude of the installation.

The unit can be ordered as CO<sub>2</sub> alone, or with optional temp, temp setpoint, override and humidity. The large format display is easy to read and alternates between the measured values (CO<sub>2</sub>, Temperature or Humidity). The display is also field adjustable between °F or °C and all the displayed values may be turned on or off by an HVAC technician.

Optional indication of the CO<sub>2</sub> level as "Good, Fair or Poor" is available as a three-color LED on the unit or as an arrow on the display.



CO<sub>2</sub> Sensors with Temp. Setpoint and Override.

The top unit has the CO<sub>2</sub> Level of "Good, Fair or Poor" shown by an arrow on the display. The bottom unit has the CO<sub>2</sub> level shown by a 3-color LED.

## **Specifications**

Power for 0 to 5 VDC Outputs:

9 to 35 VDC @ 50mA avg, 200 mA max (9 to 24 VDC recomm.)

Power for 0 to 10 VDC Outputs:

15 to 35 VDC @ 50mA avg, 200 mA max (15 to 24 VDC recomm.)

**Sensing Elements:** 

ACD Unit CO2: Single Beam Non-Dispersive Infrared (NDIR) DCD Unit CO<sub>2</sub>: Dual Channel Non-Dispersive Infrared (NDIR) Humidity: Capacitive Polymer ±2% RH Accuracy

**Temperature Sensor:** 

Thermistor, RTD or Semiconductor

**Operating Environment:** 

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

Material ABS Plastic, Material Rated UL94V-O

CO<sub>2</sub> Detection Range: 0 to 2000 ppm

Start-Up Time: 10 Minutes

Response Time: Less Than 2 Minutes (after Start-Up Time)

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

CO<sub>2</sub> Accuracy (Single Beam ACD Units):

400 to 1,250 ppm: ±30ppm or 3% of reading, whichever is greater

1,250 to 2,000 ppm: ±5% of reading + 30ppm

CO<sub>2</sub> Accuracy (Dual Channel DCD "24/7" Units):

±75ppm

LCD Display:

Main Display: 0.76" 4-digit Numeric (Numeric Values)

Minor Display: 0.34" 3-digit Alpha-Numeric (PPM, %RH, °F, °C)

Occupied/Unoccupied BAPI Man Icon: (Blk=Occupied)

**Measurement Offsets:** (Field Adjustable) ±5° (F or C) in 0.1° increments ±5% RH in 0.1% RH increments

Override Output:

Contact .... SPST, 24V AC/DC, 0.5A max Sensor ..... Shorts Out direct temperature sensor Setpoint .... Contact in parallel, resistive setpoint only

**LED CO<sub>2</sub> Level Indicator:** 

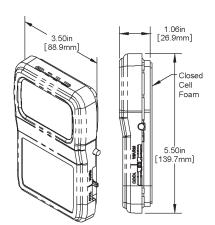
Good, Green < 1,000 PPM

Fair, Orange = 1,000 to 1,500 PPM

Poor, Red > 1,500 PPM

Certifications: RoHS

Warranty Period: 2 Years from manufacture date





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## CO<sub>2</sub> Room Sensor, BAPI-Stat 3 Enclosure

Air Quality Sensors Rev. 10/14/14

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			##	800 1800 0 500 2 0 t # \$ <u>Leae</u> No	to 1200 to 2200 to 1 kΩ to 1500 kΩ to 10 kΩ Addition  SETPOLE and Rar  Addition	0 Ω 00 Ω 0 Ω 0 Ω 0 Ω 0 Ω al Setpoii INT LEGE 1ge I	25 27 40 41 42 60 at Ranges are END (insert I Designator L0	4.7 7.8 ( e Available. § Designator #	0 to 20 kΩ 5 to 24.75 kΩ 7 to 27.87 kΩ 10 to 30 kΩ 0 to 100 kΩ 0 to 5 V* See App. Notes Pg	80 81 83 84 90 00*
			##	1800 0 500 2 0 t 4 \$ \$ <u>Leage</u> No	to 220 to 1 kΩ to 150 to 3 kΩ to 10 kΩ Addition  SETPOI and Rar  Legen  Addition	00 Ω 0 Ω 0 Ω Ω al Setpoir INT LEGE 1ge I	27 40 41 42 60 at Ranges are END (insert I Designator L0	4.7 7.8 (e Available. \$ Designator #	$^{5}$ to $^{24.75}$ kΩ $^{17}$ to $^{27.87}$ kΩ $^{10}$ to $^{30}$ kΩ $^{10}$ to $^{30}$ kΩ $^{10}$ to $^{100}$ kΩ $^{100}$ to $^{5}$ V* $^{8}$ See App. Notes Pg	81 83 84 90 00*
			##	0 500 2 0 1	to 1 kΩ to 1500 to 3 kΩ to 10 kΩ Addition SETPOI end Rar D Legend Addition	Ω Ω Ω Ω al Setpoii INT LEGE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 41 42 60 at Ranges are END (insert I Designator L0	7.8 (e Available. S Designator # Lc	77 to 27.87 kΩ 10 to 30 kΩ 0 to 100 kΩ 0 to 5 V* See App. Notes Pg	83 84 90 00*
				500 2 0 t A S <u>Leae</u> No A Sensor Typ	to 1500 to 3 kg to 10 kg Addition SETPOI end Rar D Legend Addition	0 Ω ) Ω al Setpoii I <b>NT LEGE</b> 1 <b>qe</b> <u>I</u> d	41 42 60 at Ranges are END (insert I Designator L0	e Available. S Designator # Le	10 to 30 kΩ 0 to 100 kΩ 0 to 5 V* See App. Notes Pg	84 90 00*
				2 0 1 A S Lege No A Sensor Typ -0 1	to 3 kg. Addition SETPOI and Rar D Legen Addition	Ω Ω al Setpoir I <b>NT LEGE</b> <u>nge</u> <u>I</u> d	42 60 at Ranges are END (insert I Designator L0	e Available. S Designator # <u>Le</u>	0 to 100 kΩ 0 to 5 V* See App. Notes Pg	90 00*
				Lege No A Sensor Typ -0 1	to 10 kg Addition SETPOI and Rar D Legen Addition	Ω al Setpoii I <b>NT LEGI</b> <u>1<b>qe</b> I</u> d	60 nt Ranges are END (insert I <u>Designator</u> L0	e Available. S Designator #	0 to 5 V* See App. Notes Pg	00*
				Lege No A Sensor Typ	Addition SETPOI end Rar Legen Addition	al Setpoir INT LEGE 1ge <u>I</u> d	END (insert I Designator L0	Designator # <u>Le</u>	See App. Notes Pg	. 2 for complete list.
				Lege No A Sensor Typ	end Rar Legen Addition	<u>nge I</u> d	Designator L0	<u>Le</u>	<i>‡</i> )	
				Lege No A Sensor Typ	end Rar Legen Addition	<u>nge I</u> d	Designator L0	<u>Le</u>		
				Sensor Typ	Legen Addition	d	L0		egend Range	Designator
				Sensor Typ		4.4	lo oro Avisit-I	C	COOL/WARM	L6
				-0 1	o /IE-ro-	ai Legend	is are Availal	ole. Call BAP	I for more informat	tion.
				-0 1	TE (III TES	sistive se	nsor require	ed)		
					100 Plat	tinum RTI	0, 100Ω @ 0	°C, 0.385Ω/°	C temp coeff.	
									C temp coeff.	
							,000Ω @ 21°			
									C temp coeff.	
							1,000Ω @ 20 1,800Ω @ 25		тр соет.	
							000Ω @ 25°0			
							3,300Ω @ 25			
							, 10,000Ω @			
				<b>-103</b> 1	10K-3 T	hermistor	, 10,000Ω @	25°C		
									1KΩ shunt resistor	
							0,000Ω@2			
							0,000Ω@2			
		1					100,000Ω @ uctor, 273 μA			
		1					uctor, 273 με uration (Μι		10)	
		1		"						intended to switch a load.)
		1		-			in Parallel (//)			
										on voltage setpoint models
					-Z	No Overr	ide. (Needed	if no overrid	e is required)	•
						Optional	Communica	ation Jack	(Mounted in unit	t's base)
							RJ11 (4 pin			
					ļ				with Leads and Ter	rminal Block
					-				eads Attached	Torminal Plant
					}				k with Leads and I with Leads Attache	
					}				with Leads Attache with Leads and Tei	
					ŀ	-UZZLI			ince Switch	TITILI DIOUN
								ree Position		
		1								& Temp Sensor (Skip if no
		1						Differen	tial Ground (Defau	It is Common Ground, Only
		1					L-	required	)	
		1						CO₂ Le	vel Indication (I	
		1						-LED	Green/Orange/Re	ed LED on Logo Plate to Indi
		1						,,,,,,		des Legend for Good, Fair a
		1						-ARW		Display to Indicate CO <sub>2</sub> PPM
		1								Below Display for Good, Fai
LE L	1	1	<u> </u>				$oxed{\bot}$	-BNK	INO LED OF Arrow	Indicators, No Legend
BS3F -AC			80L6	-0	., 1	-C11L	-TB	-LED	1	

Call BAPI if you have questions about the above ordering/pricing grid or the configuration of the product you are ordering. \*Not available with Differential Ground (-DF) option

