VOC Room Sensor, BAPI-Stat 3 Enclosure

Air Quality Sensors

Rev. 10/16/12



Features & Options

- VOC Alone or Temperature and Humidity Combination
- Indicates Space Occupancy by Detecting Human-Generated VOCs
- Output is Correlated to a CO₂ Value Allowing You to Ventilate Using ASHRAE's Occupancy-Based VRP Algorithm

Humans respirate Volatile Organic Compounds (VOCs) as well as CO₂. The BAPI sensor is able to measure these VOCs and indicate when a space is occupied just as well as a CO₂ sensor.

The BAPI Sensor is different from other VOC sensors because it has been optimized for Demand Controlled Ventilation (DCV). Using a calibration algorithm, the sensor value is converted to an output with a high correlation to a CO₂ level¹. This lets you use ASHRAE's occupancy-based VRP schedule to ventilate. (1More info on this correlated output is available on our website at www.bapihvac.com)

Besides from respiration, the sensor picks up VOCs from other sources such as building materials, perfumes, colognes and furniture off gassing. Using this sensor to ventilate is a way of achieving true indoor air quality and not just CO₂ dilution.

The unit is available as a VOC sensor alone or as a combination temperature and humidity sensor. The optional display alternates between the measured values

and is field adjustable between °F or °C. An optional three color LED indicates "VOC Level" of Good, Fair or Poor.



Demand Controlled Ventilation with Confidence!

The VOC Sensor is part of BAPI's "True Blue IEQ Family". When used as a combination Temp. and Humidity Sensor, it addresses the Indoor Air Quality and Thermal Comfort portions of ASHRAE's Indoor Environment Quality (IEQ) section of Standard 189.1.



VOC Sensors with Temp. Setpoint and Override.

The top unit has the VOC Level of "Good, Fair or Poor" shown by an arrow on the display. The bottom unit has the VOC level shown by a 3-color LED.

Specifications

Power: (No AC Power) 0 to 5 VDC Output Units:

9 to 35 VDC @ 50 mA Max (9 to 15 VDC recommended)

0 to 10 VDC Output Units:

15 to 35 VDC @ 50mA Max (15 VDC recommended)

Sensing Elements:

Humidity: Capacitive Polymer, ±2% RH Accuracy

VOCs: Micro-machined Metal Oxide

Temp Sensor: Thermistor, RTD or Semiconductor Mounting: 2"x4" J-Box or drywall mount – screws provided **VOC Detection Range:** 0 to 2,000 CO₂ PPM equivalent

Response Time: Less Than 60 Sec. (after Start-Up Time)

Start-Up Time: 15 minutes **Operating Environment:**

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

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 ±5% Contaminants in 0.1% increments ±100 ppp CO₂ Equivalent Contaminants in 2 ppm increments

Analog Outputs (0 to 5, 0 to 10 or 2 to 10VDC [%RH only], >10K Ω impedance)

VOC Contaminants: 0 to 2,000 CO₂ PPM equivalent

%RH: 0 to 100% or 35 to 70% RH

Override Output:

Contact: SPST

Sensor: Shorts out direct Temperature sensor (Temp) Setpoint: Contact in parallel, resistive setpoint only

LED CO₂ Equivalent Level Indicator:

Good, Green < 1,000 PPM

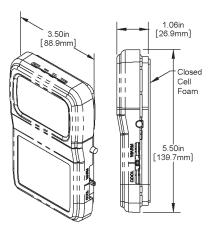
Fair, Yellow = 1,000 to 1,500 PPM

Poor, Red > 1,500 PPM

Material: ABS Plastic, Material Rated UL94V-0

Certifications: RoHS

Warranty Period: Two years from manufacture date





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H212 22% Humidity Transmitter, 2 to 10 VDC output														
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0 to 1 kΩ 40 7.87 to 27.87 kΩ 83 500 to 1500 Ω 41 10 to 30 kΩ 84 2 to 3 kΩ 42 0 to 100 kΩ 90 0 to 10 kΩ 60 0 to 5 V* 00° Additional Setpoint Ranges are available. See App. Notes Pg.2 for complete list. SETPOINT LEGEND (insert Designator #) Legend Range Designator No Legend L0 COOL/WARM L6 Additional Legends are available. Call BAPI for more information. Sensor Type (Skip if resistive sensor in not required) 0 100 Platinum RTD, 1000 @ 0°C, 0.3850/°C temp coeff1.1375 1K Platinum RTD, 1000 @ 0°C, 0.3850/°C temp coeff1.1 1 K Netzer RTD, 1,0000 @ 0°C, 0.3850/°C temp coeff1.1 1 K Platinum RTD, 1000 @ 0°C, 0.3850/°C temp coeff1.1 1 K Platinum RTD, 1000 @ 0°C, 0.3850/°C temp coeff1.1 1 K Platinum RTD, 1000 @ 0°C, 0.3850/°C temp coeff1.2 2K Silicon RTD, 2,0000 @ 0°C, 0.3850/°C temp coeff1.3 3 K Thermistor, 18000 @ 25°C -1.3 3 K Thermistor, 3,0000 @ 25°C -1.031 10K-3 Thermistor, 3,0000 @ 25°C -1.031 10K-3 Thermistor, 0.0000 @					1									
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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

