## CO2, RELATIVE HUMIDITY AND TEMPERATURE SENSORS
### *BA/BS3XXC SERIES*

### DESCRIPTION

The **BAPI model BA/BS3xxC, Relative Humidity and Temperature Sensors** measure and serve as an indicator of space occupancy. The **BAPI BA/BS3xxC** also has 2% relative humidity and various temperature sensor options. All units have no override, no LED and no legend.

### FEATURES

- ***Optional display available***
- ***Output corresponds to 0 to 2000 ppm of CO2***
- ***Available with optional temperature and humidity outputs***

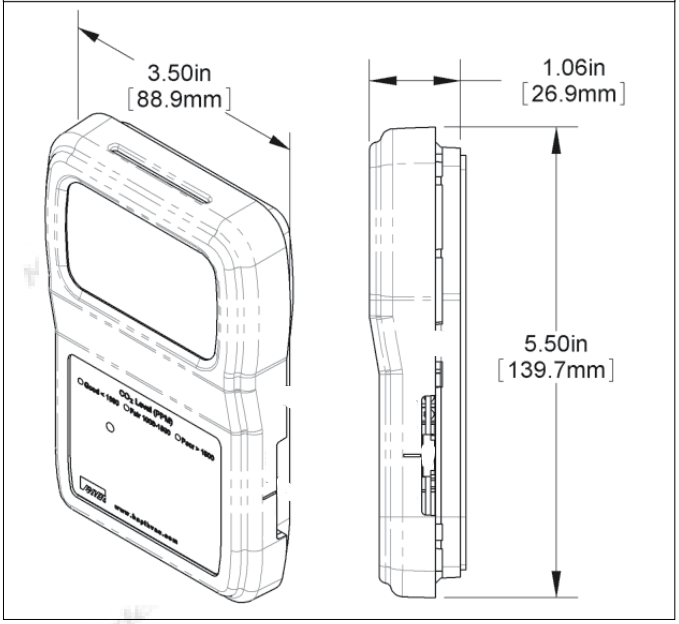
**BABS3**



### SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 0 to 5 VDC Output Units: 9-35 VDC @ 200 mA Max 0 to 10 VDC Output Units: 15-35 VDC @ 200 mA Max |
| **Accuracy** | RH: ±2% |
| **Measurement Range** | 0 to 2000 CO2 ppm<br>RH: 0-100% or<br>35-70% RH |
| **Sensing Technology** | Humidity: Capacitive Polymer<br>Temperature: Thermistor, RTD<br>CO2: NDIR |
| **Display** | Main Display: 0.76" 4-digit numeric (Numeric Values) |
| **Response Time** | Less than 120 seconds |
| **Operating Temperature** | 32° to 122°F (0° to 50°C) |
| **Operating Humidity** | 0-95% RH non-condensing |
| **Enclosure Rating** | NEMA 1, ABS, Plastic, Material Rated UL84v-0 |
| **Mounting** | 2" x 4" J-Box or drywall mount (screws provided) |
| **Approvals** | RoHS |
| **Weight** | 0.25 lb (0.11 Kg) |
| **Approvals** | RoHS |
| **Warranty** | 2 years |

### DIMENSIONS



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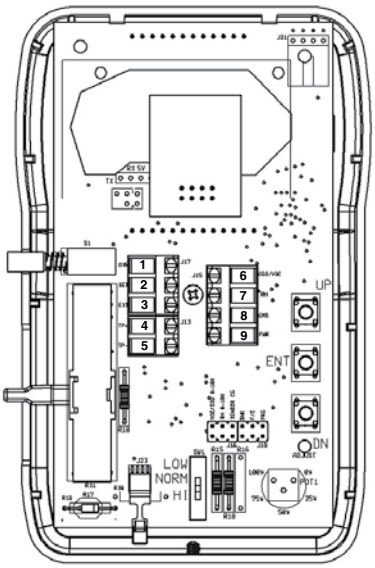
## WIRING




| BA/VOC Wiring Diagram | |
|---|---|
| 1 (OVR) | Override Output (Dry Contact Switch). When Override switch is pushed this terminal is connected to GND. |
| 2 (SET) | Setpoint output. Referenced to ground. |
| 3 (EXT) | External occupied LCD indicator is activated by logic LOW or ground at this |
| 4-5 (TP+ & TP-) | Temperature Sensor Output (Resistive Output). When a jumper is on J16, TP- is connected to the GND terminal. When the jumper is off of J16, the temperature sensor is floating. (Semiconductor TP+ = +, TP- = -) |
| 6 (CO2) | Voltage output VOC Signal (0 to 2,000 ppm) referenced to GND |
| 7 (HUM) | Voltage output Humidity Signal referenced to the GND terminal |
| 8 (GND) | To controller Ground [GND or Common] |
| 9 (PWR) | Power, referenced to GND |

## ORDERING INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| **BA** | **CO2 Room Sensor in the BAPI-Stat 3 Style Enclosure** | | | | |
| | **Temperature Display Mode (Must select one)** | | | | |
| | **BS3F** | Temperatures displayed in °F (toggle on or off) | | | |
| | **BS3X** | No LCD display | | | |
| | | **CO2 Output (Must select one)** | | | |
| | | **CO5** | CO2 transmitted as 0 to 2,000 ppm, 0 to 5 VDC output | | |
| | | **CO10** | CO2 transmitted as 0 to 2,000 ppm, 0 to 10 VDC output | | |
| | | | **Humidity Output (optional)** | | |
| | | | **-** | No Humidity Transmitter | |
| | | | **H205** | -H205 ±2% humidity transmitter, 0 to 5 VDC output | |
| | | | **H210** | -H210 ±2% humidity transmitter, 0 to 10 VDC output | |
| | | | **H212** | -H212 ±2% humidity transmitter, 2 to 10 VDC output (special order) | |
| | | | | **Passive Temperature Output (must select one)** | |
| | | | | **-** | No temperature output option |
| | | | | **0** | 100 Platinum RTD, 100Ω @ 0°C, 0.385Ω/°C temp coefficient (special order) |
| | | | | **375** | 1K Platinum RTD, 1,000Ω @ 0°C, 3.75Ω/°C temp coefficient (special order) |
| | | | | **1** | 1K Platinum RTD, 1,000Ω @ 0°C, 3.85Ω/°C temp coefficient (special order) |
| | | | | **102** | 10K-2 Thermistor, 10,000Ω @ 25°C (special order) |
| | | | | **103** | 10K-3 Thermistor, 10,000Ω @ 25°C (special order) |
| | | | | **20** | 20K Thermistor, 20,000Ω @ 25°C (special order) |

### RELATED PRODUCTS

| | |
|---|---|
| **DCPA-1.2** | Power supply, 120 VAC IN to 24 VAC/24 VDC OUT |
| **DCP-1.5-W** | Power supply, 24 VAC IN to 24 VDC OUT |