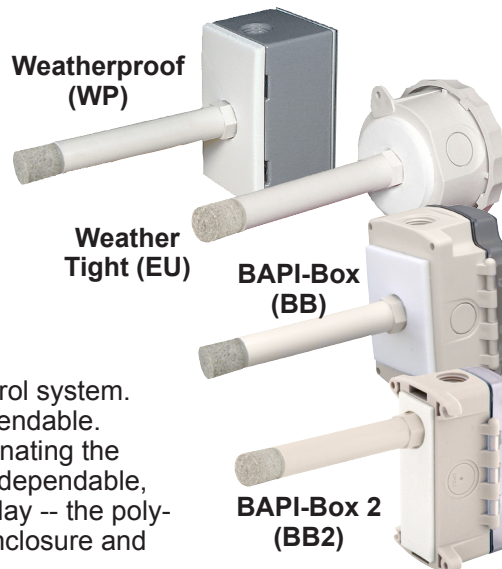




Features & Options

- Humidity Only or Temp./Humidity Combination
- Etched Teflon Leadwires & Foamback Insulator
- Four Watertight Enclosure Styles
- Ruggedized (Encapsulated) Transmitter
- Replaceable Filter
- 2% and 3% RH Accuracies
- Wide Selection of Temperature Sensing Elements



Humidity control is an important aspect of any climate control system. Therefore, humidity sensors must be both accurate and dependable. BAPI's humidity sensors are prescreened for accuracy, eliminating the need for field calibration. The Duct Units are also extremely dependable, featuring four of the most watertight enclosures available today -- the polycarbonate BAPI-Box and BAPI-Box 2, the ABS plastic EU enclosure and the cast aluminum WP enclosure.

All Duct Units feature closed cell foam to seal the insertion hole and to absorb vibration. Mounting tabs allow for easy installation to the wall of the duct. All Duct Units have etched Teflon leadwires and are built to withstand high humidity and condensation and perform under real world conditions.

* All Passive Thermistors 10K Ω and smaller are CE compliant.

For detailed specs on the individual Sensors & Transmitters, turn to the "Sensors" section.

Replacement Filter - The 100 micron porous plastic filter protects the sensor from contamination while allowing airflow. See "Accessories" for more info.



Specifications

Power:

- 10 to 35 VDC (0 - 5 VDC or 4 - 20 mA outputs)
- 15 to 35 VDC (0 - 10 VDC Output)
- 12 to 24 VAC (0 - 5 VDC Output)
- 15 to 24 VAC (0 - 10 VDC Output)

Power Consumption:

- 22 mA max. DC (0 - 5 VDC or 4 - 20 mA Outputs)
- 6 mA max. DC (0 - 10 VDC Output)
- 0.53 VA max. AC (0 - 5 VDC Output)
- 0.14 VA max. AC (0 - 10 VDC Output)

Sensor:

- Humidity: Impedance 2% or 3% RH
- Temp.: Thermistor, RTD or Semicond. or Temp. Transmitter

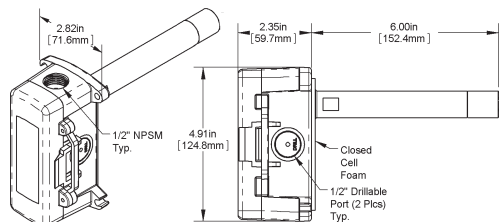
Encl. Material:

- WP Model: Cast Aluminum
- EU Model: ABS Plastic, UL 94, V-0
- BB & BB2: UV-resistant polycarbonate, UL 94, V-0

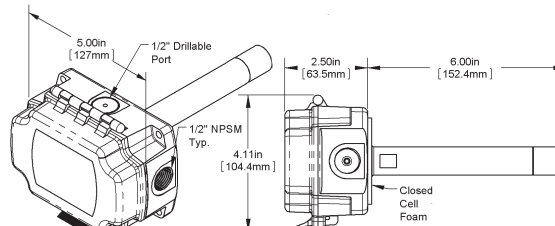
Encl. Rating: WP - NEMA 3R • EU, BB & BB2 - IP 66, NEMA 4

Environmental Operation Range:

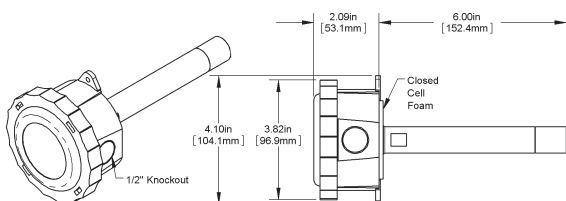
- Temp: -22°F to 158 °F (-30 °C to 70 °C)
- Humidity: 0% to 100% RH



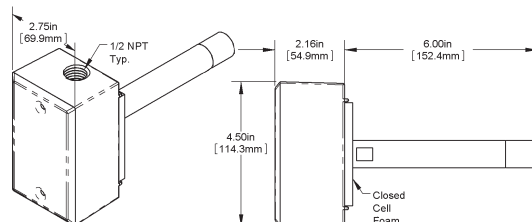
BAPI-Box 2 (BB2)



BAPI-Box (BB)



Weather Tight (EU)



Weatherproof (WP)

Ordering Information				Duct Units - Humidity or Combination Temp. & Humidity	List Price	Your Order																																																									
BA/	Optional Sensor Type	Use the designator number (shown to the left in bold) to indicate the sensor																																																													
##-	<p>THERMISTORS</p> <p>1.8K 1.8K Ω @ 25 °C</p> <p>3K 3K Ω @ 25 °C</p> <p>3.25K 3.25K Ω @ 25 °C (T30 type)</p> <p>3.3K 3.3K Ω @ 25 °C</p> <p>10K-2 10K Ω @ 25 °C</p> <p>10K-3 10K Ω @ 25 °C</p> <p>10K-3[11K] 5,238 Ω @ 25 °C</p> <p>20K 20K Ω @ 25 °C</p> <p>50K 50K Ω @ 25 °C</p> <p>100K 100K Ω @ 25 °C</p> <p>TEMPERATURE TRANSMITTERS <i>Must include a "range" figure</i></p> <p>T100[range] 100 Platinum RTD, 100 Ω @ 0 °C with 4 to 20 mA Output*</p> <p>T100M[range] 100 Platinum RTD, 100 Ω @ 0 °C with MATCHED 4 to 20 mA Output*</p> <p>T1K[range] 1K Platinum RTD, 1,000 Ω @ 0 °C with 4 to 20 mA Output*</p> <p>T1KM[range] 1K Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output*</p> <p>T10K[range] 10K Thermistor, 10,000 Ω @ 25 °C with 4 to 20 mA Output*</p> <p>T10K5[range] 10K Thermistor, 10,000 Ω @ 25 °C with 0 to 5 VDC Output*</p> <p>T10K10[range] 10K Thermistor, 10,000 Ω @ 25 °C with 0 to 10 VDC Output*</p> <p>STANDARD TEMPERATURE TRANSMITTER RANGES</p> <table border="0"> <tr> <td>40 TO 90F</td> <td>-30 TO 130F</td> <td>4 TO 32C</td> <td>-34 TO 54C</td> </tr> <tr> <td>0 TO 100F</td> <td>32 TO 212F</td> <td>-18 TO 38C</td> <td>0 TO 100C</td> </tr> <tr> <td>20 TO 120F</td> <td>30 TO 234F</td> <td>-7 TO 48C</td> <td>-1 TO 112C</td> </tr> <tr> <td>32 TO 134F</td> <td></td> <td>0 TO 57C</td> <td></td> </tr> </table> <p>Humidity Transmitter (required selection)</p> <table border="0"> <tr> <td>H200</td> <td>±2% Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA</td> <td>\$260</td> <td>\$ _____</td> </tr> <tr> <td>H210</td> <td>±2% Humidity Transmitter with 0 to 10 V Output</td> <td>\$260</td> <td>\$ _____</td> </tr> <tr> <td>H212</td> <td>±2% Humidity Transmitter with 2 to 10 V Output</td> <td>\$260</td> <td>\$ _____</td> </tr> <tr> <td>H300</td> <td>±3% Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA</td> <td>\$240</td> <td>\$ _____</td> </tr> <tr> <td>H310</td> <td>±3% Humidity Transmitter with 0 to 10 V Output</td> <td>\$240</td> <td>\$ _____</td> </tr> <tr> <td>H312</td> <td>±3% Humidity Transmitter with 2 to 10 V Output</td> <td>\$240</td> <td>\$ _____</td> </tr> </table> <p>Enclosure</p> <table border="0"> <tr> <td>-D-BB</td> <td>BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate</td> <td>\$12</td> <td>\$ _____</td> </tr> <tr> <td>-D-BB2</td> <td>BAPI-Box 2 Enclosure - IP66 rated, UV-resistant polycarbonate*</td> <td>\$12</td> <td>\$ _____</td> </tr> <tr> <td>-D-EU</td> <td>Weather Tight Enclosure - IP66 rated ABS polymer enclosure*</td> <td>\$12</td> <td>\$ _____</td> </tr> <tr> <td>-D-EUO</td> <td>Weather Tight Enclosure - IP66 rated UV-resistant enclosure*</td> <td>\$12</td> <td>\$ _____</td> </tr> <tr> <td>-D-WP</td> <td>Weatherproof Enclosure - NEMA 3R rated metal enclosure**</td> <td>\$12</td> <td>\$ _____</td> </tr> </table>	40 TO 90F	-30 TO 130F	4 TO 32C	-34 TO 54C	0 TO 100F	32 TO 212F	-18 TO 38C	0 TO 100C	20 TO 120F	30 TO 234F	-7 TO 48C	-1 TO 112C	32 TO 134F		0 TO 57C		H200	±2% Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA	\$260	\$ _____	H210	±2% Humidity Transmitter with 0 to 10 V Output	\$260	\$ _____	H212	±2% Humidity Transmitter with 2 to 10 V Output	\$260	\$ _____	H300	±3% Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA	\$240	\$ _____	H310	±3% Humidity Transmitter with 0 to 10 V Output	\$240	\$ _____	H312	±3% Humidity Transmitter with 2 to 10 V Output	\$240	\$ _____	-D-BB	BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate	\$12	\$ _____	-D-BB2	BAPI-Box 2 Enclosure - IP66 rated, UV-resistant polycarbonate*	\$12	\$ _____	-D-EU	Weather Tight Enclosure - IP66 rated ABS polymer enclosure*	\$12	\$ _____	-D-EUO	Weather Tight Enclosure - IP66 rated UV-resistant enclosure*	\$12	\$ _____	-D-WP	Weatherproof Enclosure - NEMA 3R rated metal enclosure**	\$12	\$ _____	<p>RTDs</p> <p>100 100 Ω Platinum @ 0 °C, .385 Ω/°C temp. coeff.</p> <p>100[3W] 3 Wire 100 Ω Plat. @ 0 °C, .385 Ω/°C temp. coeff.</p> <p>1K[375] 1K Ω Platinum @ 0 °C, 3.75 Ω/°C temp. coeff.</p> <p>1K[Ni] 1K Ω Nickel @ 21°C, 5 Ω/°C temp. coeff.</p> <p>1K 1K Ω Platinum @ 0 °C, 3.85 Ω/°C temp. coeff.</p> <p>2K 2K Ω Silicon @ 20 °C, 8 Ω/°C temp. coeff.</p> <p>SEMICONDUCTORS</p> <p>334 LM334 Semiconductor</p> <p>592 AD592 Semiconductor, 273 μA @ 0 °C</p> <p>592-10K AD592 Semicond. w/ 10 kΩ shunt resistor, 2.73 V @ 0 °C</p> <p>Thermistors</p> <p>\$18 Each \$ _____</p> <p>RTD's</p> <p>\$25 Each or \$35 for 1K[Ni] \$ _____</p> <p>Semi-conductors</p> <p>\$25 Each \$ _____</p> <p>Temperature Transmitters</p> <p>\$125 for T100, T1K or T10K \$ _____</p> <p>\$280 for T100M & T1KM \$ _____</p>	
40 TO 90F	-30 TO 130F	4 TO 32C	-34 TO 54C																																																												
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Units with a T100, T1K or T10K transmitter and a humidity transmitter require a doublegang D-WP enclosure or BAPI-Box enclosure.

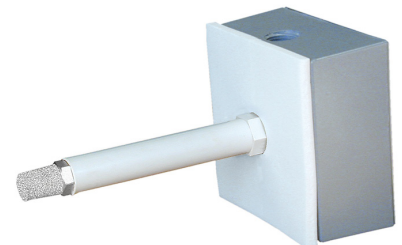
*Note: The T100, T1K and T10K transmitters are not available with the O-EU, O-EUD or BB2 enclosure.

**Doublegang WP enclosure required if RTD or Thermistor transmitters are ordered.

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

Doublegang Weatherproof Enclosure

Units with a T100, T1K or T100K Transmitter and a Humidity Transmitter require a doublegang Weatherproof (WP) enclosure or BAPI-Box (BB) enclosure and are not available in the Weathertight (EU) or the BAPI-Box 2 (BB2) enclosures. Units with a T10K transmitter and 4-20 mA or 0-5V output do not require a doublegang O-WP enclosure.)



Doublegang Weatherproof Enclosure