

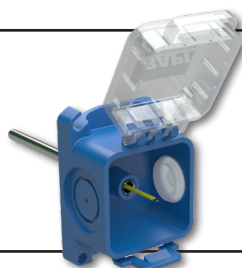
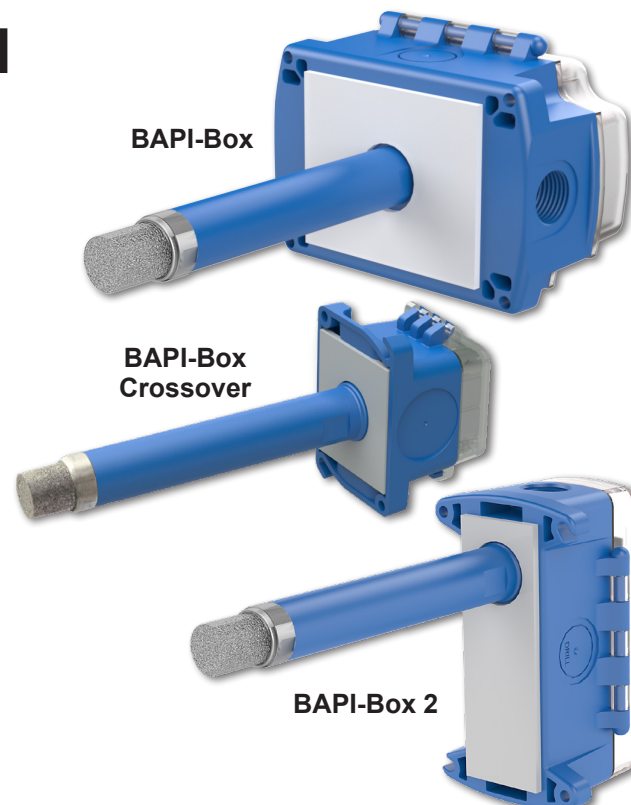


## Features & Options

- 10 Points of Calibration from 10 to 90% RH
- Humidity Only or Temp./Humidity Combination
- Replaceable Stainless Steel Filter
- Green Power Indication LED on BAPI-Box Crossover Units
- $\pm 2\%$  and  $\pm 3\%$  RH Accuracies

Humidity control is an important aspect of any climate control system. Therefore, humidity sensors must be both accurate and dependable. BAPI's humidity transmitters are calibrated at 10 points from 10 to 90% RH for accuracy, eliminating field calibration.

The Duct Units are also extremely dependable, featuring three of the most watertight enclosures available today. The BAPI-Box, BAPI-Box 2 and BAPI-Box Crossover Enclosures are made of UV-resistant polycarbonate and carry an IP66 rating. The BAPI-Box is only available for units with a temperature transmitter and a humidity transmitter.



## The BAPI-Box Crossover Enclosure

The BAPI-Box Crossover features a hinged cover with thumb latch for easy termination. A pierceable knockout plug is available for the open port. See the Accessories section for more info.

*(Unit shown with knockplug plug sold separately.)*

## Specifications

### Power:

10 to 35 VDC, 22 mA max .....For units with 0 to 5 or 1 to 5 VDC or 4 to 20 mA Humidity Output  
 15 to 35 VDC, 6 mA max .....For units with 0 to 10 or 2 to 10 VDC Humidity Output  
 12 to 27 VAC, 0.53 VA max .....For units with 0 to 5 or 1 to 5 VDC Humidity Output  
 15 to 27 VAC, 0.14 VA max .....For units with 0 to 10 or 2 to 10 VDC Humidity Output

### Enclosure Dimensions:

#### H x W x D

BAPI-Box Crossover:.....3.1 x 2.2 x 1.9" (79 x 56 x 49mm)  
 BAPI-Box .....5 x 4.1 x 2.5" (127 x 104 x 63.5mm)  
 BAPI-Box 2:.....4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm)

*(For enclosure dimension drawings, turn to the end of the section.)*

### Sensor:

2% Humidity: Capacitive  $\pm 2\%$  (10 to 80% RH @ 25°C)  
 $\pm 3\%$  (80 to 90% RH @ 25°C)

3% Humidity: Capacitive  $\pm 3\%$  (10 to 90% RH @ 25°C)

Temp: Thermistor or RTD (See Sensors section for specs)

### Enclosure Rating:

BAPI-Box Crossover: IP10, NEMA 1 (IP44 with knockout plug)  
 BAPI-Box and BAPI-Box 2: IP66, NEMA 4X

### BAPI-Box and BAPI-Box 2 Material:

UV-resistant Polycarbonate, UL94 V-0

### BAPI-Box Crossover Material:

Cover: Polycarbonate, UL94 V-0  
 Base: Nylon, UL94 HB

### Environmental Operation Range:

Temperature: -40 to 158°F (-40 to 70°C)  
 Humidity: 0 to 100% RH  
 Fully Temperature Compensated

**Agency:** CE EN 61326-1:2013 EMC\*

\*CE applies to BAPI-Box units only





Submittal sheets without List Prices are available on our website at [www.bapihvac.com](http://www.bapihvac.com)

Use the Option Selection Guides below to create your custom part number. Replace the number and parenthesis with the designator for each selection. Skip the designator and dashes for optional selections that are not required in your configuration. Additional options are available but not shown above. Contact BAPI for the complete list of options.

**Option Selection Guide**  
**Duct Units with Optional Temperature Sensor**

BA/ ( #1 ) - ( #2 ) - ( #3 )

<b>#1: Temp Sensor (Optional)</b>	<b>List Price</b>	
1.8K .....	1.8K Thermistor.....\$18	
3K .....	3K Thermistor.....\$18	
10K-2 .....	10K-2 Thermistor.....\$18	
10K-3 .....	10K-3 Thermistor.....\$18	
10K-3[11K]...	10K-3[11K] Thermistor .....	\$18
20K .....	20K Thermistor.....\$18	
1K[375] .....	1K Plat. RTD (375 curve) .....	\$25
1K .....	1K Plat. RTD (385 curve) .....	\$25
1K[NI].....	1K Nickel RTD.....	\$65

**#2: Humidity Output (Required)**

H200 ...	±2% Accuracy, 0 to 5V Output.....	\$240
H215 ...	±2% Accuracy, 1 to 5V Output* .....	\$240
H210 ...	±2% Accuracy, 0 to 10V Output....	\$240
H212 ...	±2% Accuracy, 2 to 10V Output* ..	\$240
H220 ...	±2% Accuracy, 4 to 20mA Output .	\$240
H300 ...	±3% Accuracy, 0 to 5V Output.....	\$240
H315 ...	±3% Accuracy, 1 to 5V Output* .....	\$240
H310 ...	±3% Accuracy, 0 to 10V Output....	\$240
H312 ...	±3% Accuracy, 2 to 10V Output* ..	\$240
H320 ...	±3% Accuracy, 4 to 20mA Output .	\$240

**#3: Enclosure (Required)**

D-BBX....	BAPI-Box Crossover (IP10, NEMA 1) .	\$0
D-BB2....	BAPI-Box 2 (IP66, NEMA 4).....	\$12

*\*Not available with the BAPI-Box Crossover*

**Example Number:**

BA/(10K-2) - (H200) - (D-BBX)

BA/10K-2-H200-D-BBX (no parenthesis)

**Description:** 10K-2 Thermistor, ±2%RH with 4 to 20mA Output, BAPI-Box Crossover

**List Price:** \$18 + \$240 = \$258

**Option Selection Guide**  
**Duct Units with a Temperature Transmitter**

BA/ ( #1 ) ( #2 ) - ( #3 ) - ( #4 ) - ( #5 )

<b>#1: Temp Transmitter (Required)</b>	<b>List Price</b>	
T1K .....	4 to 20mA Output.....	\$125
TXS05.....	0 to 5V Output* .....	\$125
TXS10.....	0 to 10V Output* .....	\$125
TXS12.....	2 to 10V Output* .....	\$125
TXS15.....	1 to 5V Output* .....	\$125

**#2: Temperature Range (Required)**

[32 TO 212F] ...	32 to 212°F Range
[20 TO 120F] ...	20 to 120°F Range
[0 TO 100F] .....	0 to 100°F Range
[0 TO 100C] .....	0 to 100°C Range
[-7 TO 49C].....	-7 to 49°C Range
[-18 TO 38C]....	-18 to 38°C Range

**#3: Humidity Output (Required)**

H200 ...	±2% Accuracy, 0 to 5V Output.....	\$240
H215 ...	±2% Accuracy, 1 to 5V Output.....	\$240
H210 ...	±2% Accuracy, 0 to 10V Output....	\$240
H212 ...	±2% Accuracy, 2 to 10V Output....	\$240
H220 ...	±2% Accuracy, 4 to 20mA Output .	\$240
H300 ...	±3% Accuracy, 0 to 5V Output.....	\$240
H315 ...	±3% Accuracy, 1 to 5V Output.....	\$240
H310 ...	±3% Accuracy, 0 to 10V Output....	\$240
H312 ...	±3% Accuracy, 2 to 10V Output....	\$240
H320 ...	±3% Accuracy, 4 to 20mA Output .	\$240

**#4: BAPI-Box Enclosure (Required)**

D-BB....	BAPI-Box (IP66, NEMA 4) .....	\$12
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*\*Voltage outputs are field selectable*

**Example Number:**

BA/(T1K)([32 TO 212F]) - (H200) - (D-BB)

BA/T1K[32 TO 212F]-H200-D-BB (no parenthesis)

**Description:** Temperature Transmitter with 4 to 20mA Output and 32 to 212°F Range, ±2%RH with 4 to 20mA Output, BAPI-Box Enclosure

**List Price:** \$125 + \$240 + \$12 = \$377

**Your Number:** BA/

