



Features & Options

- 10 Points of Calibration from 10 to 90%RH
- Humidity Only or Temp./Humidity Combination
- Replaceable Filter
- 2% and 3%RH Accuracies
- Green Power Indication LED on BAPI-Box Crossover Units
- 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 transmitters are calibrated at 10 points from 10 to 90% RH for accuracy, eliminating field calibration.

The Outside Air Units are also extremely dependable, featuring two of the most watertight enclosures available today. The BAPI-Box 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

The new BAPI-Box Crossover features a hinged cover with thumb latch for easy termination. It is available with a pierceable knockout plug for any open port and a watertight gasket for the cover.



BAPI-Box Crossover



BAPI-Box
(for units with a temperature transmitter only)

Specifications

Power and Consumption:

10 to 35 VDC, 22 mA max. (for units with 0 to 5 VDC or 4 to 20 mA Humidity Outputs)
 15 to 35 VDC, 6 mA max. (for units with 0 to 10 VDC Humidity Output)
 12 to 27 VAC, 0.53 VA max. (for units with 0 to 5 VDC Humidity Outputs)
 15 to 27 VAC, 0.14 VA max. (for units with 0 to 10 VDC Humidity Output)

Enclosure Dimensions: H x W x D

BAPI-Box 5 x 4.1 x 2.5" (127 x 104 x 63.5mm)

BAPI-Box Crossover: 3.1 x 2.2 x 1.9" (79 x 56 x 49mm)

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

Sensor:

Humidity:

Capacitive 2% or 3%RH
 (10 to 90% RH @ 23°C)

Temperature:

Thermistor or RTD

(See Sensors section for specs)

Enclosure Rating:

BAPI-Box and BAPI-Box Crossover: IP66, NEMA 4X

Enclosure Material:

UV-res. Polycarbonate, UL 94, V-0

Environmental Operation Range:

Temp: -40 to 158°F (-40 to 70°C)

Humidity: 0% to 100% RH

Fully Temperature Compensated





Use the Option Selection Guide 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.

Outside Air Humidity Sensor Option Selection Guide

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

#1: Temperature Sensor or Transmitter (optional)

1.8K 1.8K Thermistor
 3K 3K Thermistor
 10K-2 10K-2 Thermistor
 10K-3 10K-3 Thermistor
 10K-3[11K] 10K-3[11K] Thermistor
 20K 20K Thermistor

1K[375] 1K Platinum RTD (375 curve)
 1K[Ni] 1K Ω Nickel RTD
 1K 1K Platinum RTD (385 curve)

Temperature Transmitters below require a BAPI-Box Enclosure

T1K[32 TO 212F] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 32 to 212°F Range
 T1K[20 TO 120F] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 20 to 120°F Range
 T1K[0 TO 100F] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 100°F Range
 T1K[0 TO 100C] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 100°C Range
 T1K[-7 TO 49C] 1K Plat. RTD Transmitter, 4 to 20 mA Output, -7 to 49°C Range
 T1K[-18 TO 38C] 1K Plat. RTD Transmitter, 4 to 20 mA Output, -18 to 38°C Range

Matched Transmitters are also available. Contact your BAPI representative for ordering.

#2: Humidity Output (required)

H200 $\pm 2\%$ Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA
 H210 $\pm 2\%$ Humidity Transmitter with 0 to 10 V Output
 H212 $\pm 2\%$ Humidity Transmitter with 2 to 10 V Output
 H300 $\pm 3\%$ Humidity Transmitter with Interchangeable Output of 0 to 5 V or 4 to 20 mA
 H310 $\pm 3\%$ Humidity Transmitter with 0 to 10 V Output
 H312 $\pm 3\%$ Humidity Transmitter with 2 to 10 V Output

#3: Enclosure Style (required)

O-BBX6 BAPI-Box Crossover with Cover Gasket (IP66, NEMA 4X)
 O-BB BAPI-Box (for units with a temp transmitter only) (IP66, NEMA 4X)

Additional options are available for these units but not shown in this Selection Guide. Contact your BAPI representative for the complete list of options. Submittal sheets without List Prices can be downloaded from our website at www.bapihvac.com

Example Number: BA/(**10K-2**) - (**H200**) - (**O-BBX6**)

Actual Number (with parenthesis removed): BA/10K-2-H200-O-BBX6

Description: 10K-2 Thermistor, 0 to 5V or 4 to 20mA Humidity Output, BAPI-Box Crossover IP66-rated Enclosure.

Your Number: BA/

