



Features & Options

- 10 Points of Calibration from 10 to 90% RH
- Humidity Only or Temp./Humidity Combination
- Three Watertight Enclosure Styles
- Replaceable Stainless Steel 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 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 polycarbonate BAPI-Box and BAPI-Box 2 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. The units are built to withstand high humidity and condensation and perform in the real world.

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

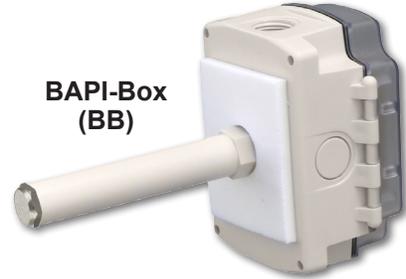


*All Passive Thermistors 10K Ω and smaller are CE compliant.

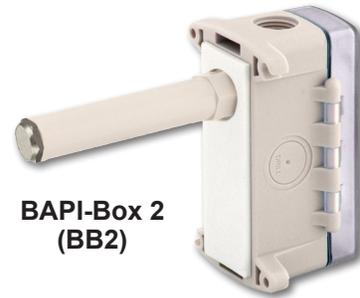
Weatherproof (WP)



BAPI-Box (BB)



BAPI-Box 2 (BB2)



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)

Encl. Dimensions:

H x W x D

- BAPI-Box (BB) 5 x 4.1 x 2.5" (127 x 104 x 63.5mm)
- BAPI-Box 2 (BB2) 4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm)
- Weatherproof (WP) 4.5 x 2.75 x 2.2" (114 x 70 x 55mm)

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

Sensor:

- Humidity: Capacitive 2% or 3% RH (10 to 90% RH @ 23°C)
- Temp: Thermistor, Semiconductor RTD or Temp Transmitter

Enclosure Material:

- WP Model: Cast Aluminum
- BB & BB2: UV-resistant Polycarbonate, UL 94, V-0

Environmental Operation Range:

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

Enclosure Rating:

- WP Model: NEMA 3R
- BB & BB2: IP66, NEMA 4

Note: See installation sheets for full specifications.

For detailed specifications on the Sensors & Transmitters, see the "Sensors" section.



