



## Features & Options

- Averaging Lengths: 8', 12' and 24'
- Five Enclosure Styles

BAPI Duct Averaging Units feature closed cell foam to seal the probe insertion hole and absorb vibration. Mounting tabs allow for easy installation to the duct. All units have etched Teflon leadwires and encapsulated sensors to create a watertight package that can perform under real world conditions.

Averaging probes should be used wherever there is a chance for stratified layers of hot and cold air. Averaging probes are made of bendable aluminum tubing and measure temperature along their entire length. Nylon tie straps are provided for mounting.

Duct Averaging Units come standard with a 2"x4" steel J-Box but are also available with no box, the BAPI-Box, the BAPI-Box 2 or the BAPI-Box Crossover enclosures.

### Flexible Probe Bracket

The Flexible Probe Bracket (FPB) simplifies the mounting of averaging sensors. The bracket is used to



reverse the direction of the probe with a smooth arc to eliminate the risk of kinking.

(See the Accessories Section for more info.)



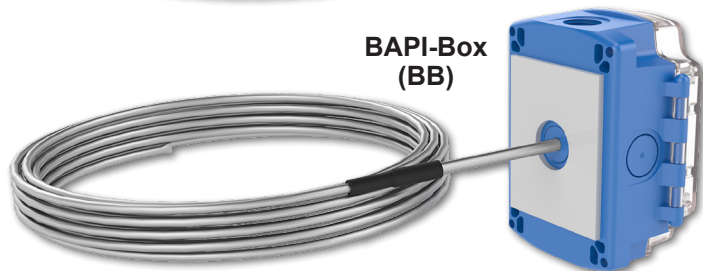
No Box  
(NB)



J-Box  
(Standard)



BAPI-Box Crossover  
(BBX)



BAPI-Box  
(BB)



BAPI-Box 2  
(BB2)

## Specifications

### Environmental Operation Range:

Temperature:

BBX: -40 to 185°F (-40 to 85°C)

Other Enclosures: -40 to 212°F (-40 to 100°C)

Humidity: 0 to 95%, non-condensing

### Sensing Element:

Thermistor or RTD (See Sensors Section for Specs.)

### Probe Material:

Bendable Aluminum, 3/16" diameter

### Enclosure Material:

J-Box: Galvanized Steel

BBX: Polycarbonate (UL94 V-0) & Nylon (UL94 HB)

BB & BB2: UV-Resistant Polycarb. (UL94 V-0)

### Enclosure Rating:

J-Box: IP20, NEMA 1

BBX: IP10, NEMA 1

IP44 with knockout plug in open port

BB & BB2: IP66, NEMA 4

### Enclosure Dimensions: H x W x D

BBX: 3.1 x 2.2 x 1.9" (79 x 56 x 49mm)

J-Box: 2.1 x 2.1 x 1.94" (54.6 x 54.6 x 49mm)

BB: 5 x 4.1 x 2.5" (127 x 104 x 63.5mm)

BB2: 4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm)

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





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.

## Duct Averaging Sensor Option Selection Guide

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

### #1: Temperature Sensor (required)

- 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 ..... 1K Platinum RTD (385 curve)

- 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: Probe Type and Length (required)

- A-8' ..... Flexible Averaging, 8' (2.4m) length
- A-12' ..... Flexible Averaging 12' (3.7m) length
- A-24' ..... Flexible Averaging 24' (7.3m) length

### #3: Enclosure and Lead Length (optional, J-Box comes standard)

- BBX ..... BAPI-Box Crossover (IP10, NEMA 1)
- NB ..... No Box (comes with 6" Etched Teflon Leads)
- BB ..... BAPI-Box (1P66, NEMA 4)
- BB2 ..... BAPI-Box 2 (1P66, NEMA 4)

### #4: Test & Balance or Terminal Strip (optional, requires a BAPI-Box Crossover, BAPI-Box or BAPI-Box 2)

- TB ..... Test & Balance Switch
- TS ..... Terminal Strip Connection (The \$7 does not apply to T1K transmitter units)

*Certain sensor types or lengths may not be available at this time or the pricing may vary from what is shown above. Please contact your BAPI representative for full availability and pricing.*

*Additional options are available for these units but not shown in the configurator above. Contact your BAPI representative for the complete list of options.*

**Example Number:** BA/ ( 10K-2 ) - ( A-8' ) - ( BBX ) - ( )

**Actual Number (with parenthesis removed):** BA/10K-2-A-8'-BBX

**Description:** 10K-2 Thermistor, Duct Averaging Sensor, BAPI-Box Crossover Enclosure

**Your Number:** BA/

Gray shaded items follow the Buy and Resale Multiplier.

