



## Features & Options

- Averaging Lengths: 12", 2', 3' and 4'
- Five Enclosure Styles including the BAPI-Box Crossover with Hinged Cover

BAPI Rigid Averaging Units feature closed cell foam to seal the probe insertion hole and absorb vibration. Mounting tabs allow for easy installation directly to the wall of 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 1/4" diameter stainless steel tubing.

Rigid Averaging Units come standard with a 2"x2" steel J-Box but are also available with no box, the BAPI-Box, the BAPI-Box 2 or the BAPI-Box Crossover enclosures.

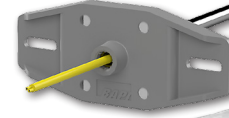
### The BAPI-Box Crossover



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.

*(Units shown with knockout plug sold separately.)*

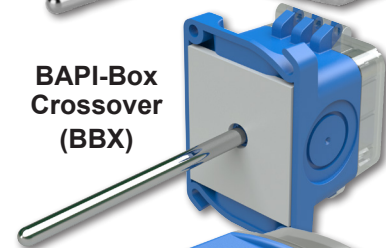
No Box  
(NB)



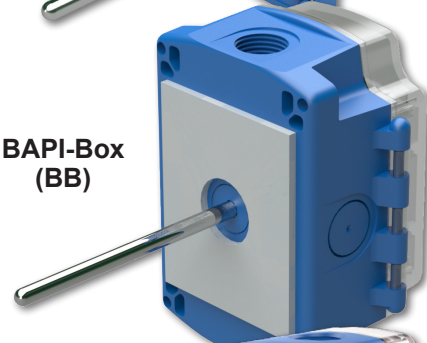
J-Box  
(Standard)



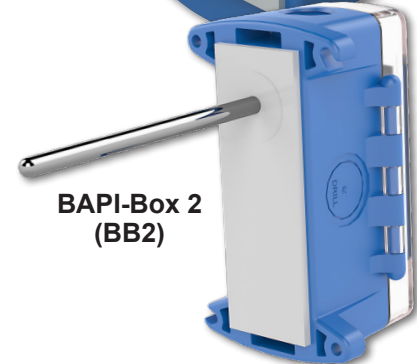
BAPI-Box  
Crossover  
(BBX)



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:

Stainless Steel, 1/4" 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.)*



Submittal sheets without List Prices are available on our website at [www.bapivac.com](http://www.bapivac.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**  
**Rigid Averaging Temperature Sensors**

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

**#1: Temp Sensor (Required)    List Price**

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: Probe Length (Required)**

RA-12".....	12" (0.3m) Length .....	\$68
RA-2'.....	2' (0.6m) Length.....	\$68
RA-3'.....	3' (0.9m) Length.....	\$102
RA-4'.....	4' (1.2m) Length.....	\$136

**#3: Enclosure (Optional)**  
(J-Box comes standard if nothing selected)

BBX.....	BAPI-Box Crossover (IP10, NEMA 1) .....	\$0
BB.....	BAPI-Box (IP66, NEMA 4).....	\$12
BB2.....	BAPI-Box 2 (IP66, NEMA 4).....	\$12
NB-18".....	No Box, 18" Etched Teflon Leads... ..	\$0
NB-5'.....	No Box, 5' Plenum-Rated Cable.....	\$2
NB-10'.....	No Box, 10' Plenum-Rated Cable... ..	\$4
NB-15'.....	No Box, 15' Plenum-Rated Cable... ..	\$6

**#4: Test & Balance or Terminal Strip (Optional)**  
(requires a BBX, BB or BB2 enclosure above)

TB.....	Test & Balance Switch.....	\$7.50
TS.....	Terminal Strip Connection .....	\$7

**Option Selection Guide**  
**Rigid Averaging Temperature Transmitters**

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

**#1: Output (Required)    List Price**

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: Probe Length (Required)**

RA-12".....	12" (0.3m) Length .....	\$68
RA-2'.....	2' (0.6m) Length.....	\$68
RA-3'.....	3' (0.9m) Length.....	\$102
RA-4'.....	4' (1.2m) Length.....	\$136

**#4: Enclosure (Required)**

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

**#5: Terminal Strip (Optional)**

TS.....	Terminal Strip Connection.....	\$0
---------	--------------------------------	-----

\*Voltage outputs are field selectable



**Example Number:**

BA/(10K-2) - (RA-2') - (NB-5') - ( )

BA/10K-2-RA-2'-NB-5' (no parenthesis)

**Description:** 10K-2 Thermistor, 2' Probe, No Box Enclosure with 5' Cable

**List Price:** \$18 + \$102 + \$2 = \$122 List Price

**Example Number:**

BA/(T1K)[32 TO 212F] - (RA-2') - (BBX) - ( )

BA/T1K[32 TO 212F]-RA-2'-BBX (no parenthesis)

**Description:** 4 to 20mA Transmitter, 32 to 212°F Range, 2' Probe, BAPI-Box Crossover Enclosure

**List Price:** \$125 + \$102 = \$227 List Price

**Your Number:** BA/

