



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.

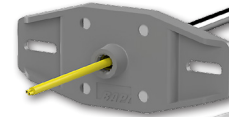
The BAPI-Box Crossover



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.)

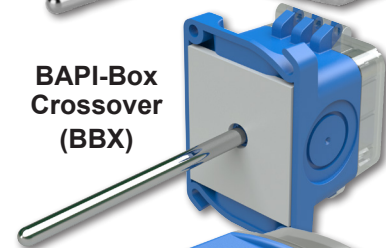
No Box
(NB)



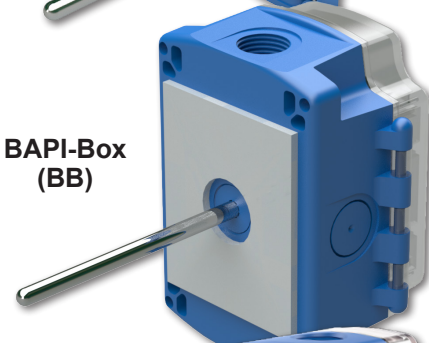
J-Box
(Standard)



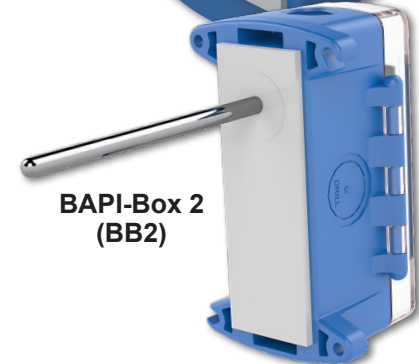
BAPI-Box
Crossover
(BBX)



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.)



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)
 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 Plat. RTD (375 curve)
 1K 1K Plat. RTD (385 curve)
 1K[NI]..... 1K Nickel RTD

#2: Probe Length (Required)
 RA-12" 12" (0.3m) Length
 RA-2' 2' (0.6m) Length
 RA-3' 3' (0.9m) Length
 RA-4' 4' (1.2m) Length

#3: Enclosure (Optional)
 (J-Box comes standard if nothing selected)
 BBX BAPI-Box Crossover (IP10, NEMA 1)
 BB BAPI-Box (IP66, NEMA 4)
 BB2 BAPI-Box 2 (IP66, NEMA 4)
 NB-18" ... No Box, 18" Etched Teflon Leads
 NB-5' No Box, 5' Plenum-Rated Cable
 NB-10' No Box, 10' Plenum-Rated Cable
 NB-15' No Box, 15' Plenum-Rated Cable

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

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

Option Selection Guide
Rigid Averaging Temperature Transmitters

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

#1: Output (Required)
 T1K 4 to 20mA Output
 TXS05 0 to 5V Output*
 TXS10 0 to 10V Output*
 TXS12 2 to 10V Output*
 TXS15 1 to 5V Output*

#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
 RA-2' 2' (0.6m) Length
 RA-3' 3' (0.9m) Length
 RA-4' 4' (1.2m) Length

#4: Enclosure (Required)
 BBX BAPI-Box Crossover (IP10, NEMA 1)
 BB BAPI-Box (IP66, NEMA 4)
 BB2 BAPI-Box 2 (IP66, NEMA 4)

#5: Terminal Strip (Optional)
 TS Terminal Strip Connection

*Voltage outputs are field selectable

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



Your Number: BA/

