



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"x2" 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.)



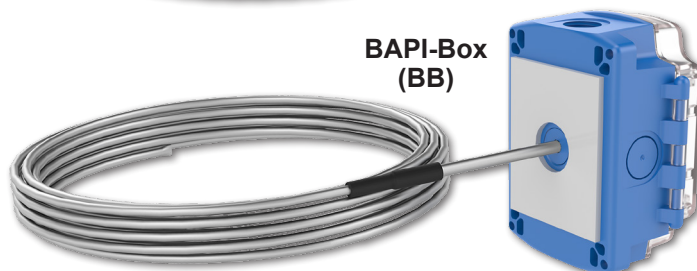
No Box
(NB)



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 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 Duct 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 1K Plat. RTD (385 curve)

#2: Probe Length (Required)

A-8' 8' (2.4m) length
A-12' 12' (3.7m) length
A-24' 24' (7.3m) 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 No Box, 6" Etched Teflon Leads

#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) - (A-8') - (NB) - ()
BA/10K-2-A-8'-NB (no parenthesis)

Description: 10K-2 Thermistor, 8' Probe,
No Box Enclosure with 6" Etched Teflon Leads

Option Selection Guide Duct 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)

A-8' 8' (2.4m) length
A-12' 12' (3.7m) length
A-24' 24' (7.3m) 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]) - (A-8') - (BBX) - ()
BA/T1K[32 TO 212F]-A-8'-BBX (no parenthesis)

Description: 4 to 20mA Transmitter, 32 to
212°F Range, 8' Probe, BAPI-Box Crossover
Enclosure

Your Number: BA/

Gray shaded items follow the Buy and Resale Multiplier.

