



Features & Options

- Averaging Lengths: 8', 12' and 24'
- Several Enclosure Styles
- Limited Lifetime Warranty
- Wide Selection of Temperature Sensing Elements

BAPI Duct 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 bendable aluminum tubing and measure temperature along their entire length. Nylon tie straps are provided for mounting.

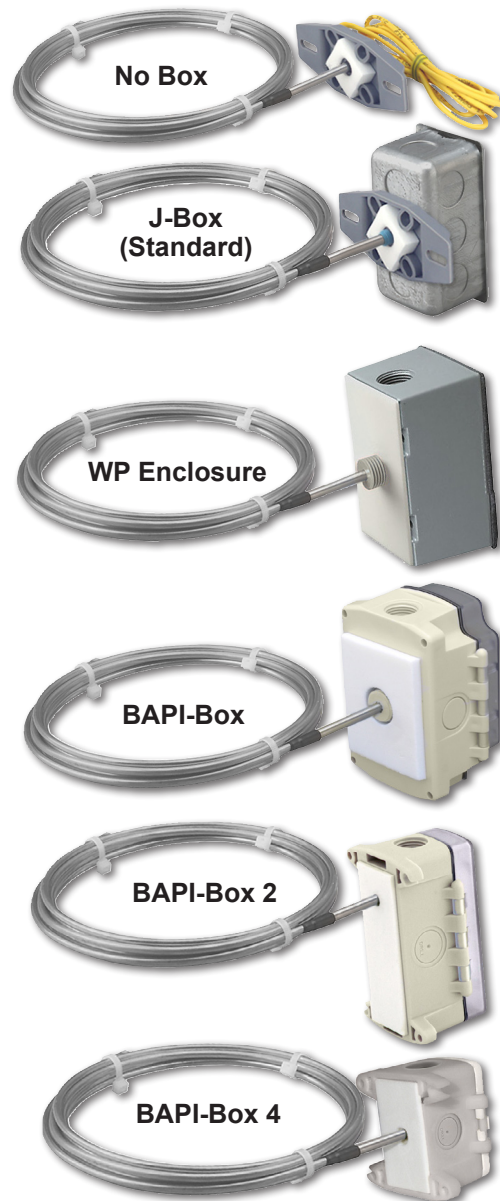
Duct Averaging Units come standard with a 2"x4" steel J-Box but are also available with No Box, a BAPI-Box 4 or three watertight enclosures: Weatherproof, BAPI-Box or BAPI-Box 2. BAPI also offers optional liquid-tight fittings.

Pierceable Knockout Plug

A Pierceable Knockout Plug is available for the open port in the BAPI-Box 4 enclosure (and for other enclosures). With the plug installed, the BAPI-Box 4 carries an IP44 rating. See "Accessories" for more info.



BAPI-Box 4 Duct Averaging Sensor with Plug Installed



Specifications

Environmental Operation Range:

Temperature Sensor:
 BB, BB2 & BB4 Encl.: -40 to 85 °C
 J-Box, WP, NB: -40 to 100 °C
 Temperature Transmitter: -20 to 70 °C
 Humidity: 0 to 95%, non-condensing

Enclosure Rating:

J-Box Models: IP20, NEMA 1
 BB4 Model: IP10
 (IP44 with Knockout Plug)
 WP Model: NEMA 3R
 BB & BB2 Models: IP66, NEMA 4

Enclosure Material:

J-Box Model: Galv. Steel
 WP Model: Cast Aluminum
 BB & BB2: UV-resist. polycarb., UL94, V-0
 BB4 Model: Nylon & Plastic, UL94, V-0

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)
 BAPI-Box 4 (BB4) 2.8 x 2.8 x 2.06" (72 x 71.4 x 52.3mm)
 J-Box (JB) 4.2 x 3.9 x 1.94" (106 x 98.4 x 49mm)
 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.)

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

*All Passive Thermistors 20KΩ and smaller are CE compliant.





10/14/15

Duct Averaging Units

Temperature Sensors

A37

Ordering Information		Duct Averaging Units - Temperature	
BA/	Sensor Type (Required) Use the designator number (shown to the left in bold) to indicate the sensor		
#	THERMISTORS	RTDs	
1.8K	1.8K Ω @ 25 °C	1K[375]	1K Ω Platinum @ 0 °C, 3.75 Ω /°C temp. coeff.
2.2K	2.2K Ω @ 25 °C	1K[NI]	1K Ω Nickel @ 21°C, 5 Ω /°C temp. coeff.
3K	3K Ω @ 25 °C	1K	1K Ω Platinum @ 0 °C, 3.85 Ω /°C temp. coeff.
3.25K	3.25K Ω @ 25 °C (T30 type)		
3.3K	3.3K Ω @ 25 °C		
10K-2	10K Ω @ 25 °C		
10K-3	10K Ω @ 25 °C		
10K-3[11K]	5,238 Ω @ 25 °C		
20K	20K Ω @ 25 °C		
47K	47K Ω @ 25 °C		
50K	50K Ω @ 25 °C		
100K	100K Ω @ 25 °C		
	TEMPERATURE TRANSMITTERS <i>Must include a "range" figure. Requires an enclosure.</i>		
T1K[range]	1K Platinum RTD, 1,000 Ω @ 0 °C with 4 to 20 mA Output		
T1KM[range]	1K Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output*		
T10K[range]	10K Thermistor, 10,000 Ω @ 25 °C with 4 to 20 mA Output**		
T10K5[range]	10K Thermistor, 10,000 Ω @ 25 °C with 0-5 VDC Output**		
T10K10[range]	10K Thermistor, 10,000 Ω @ 25 °C with 0-10 VDC Output**		
	TEMPERATURE TRANSMITTER RANGES		
	Custom temperature transmitter ranges are available. Common ranges are listed below		
	40 TO 90F	4 TO 32C	-30 TO 130F -34 TO 54C
	0 TO 100F	-18 TO 38C	32 TO 212F 0 TO 100C
	20 TO 120F	-7 TO 49C	30 TO 234F -1 TO 112C
	32 TO 134F	0 TO 57C	
	Configuration (Required)		
	-A-8'	8' Duct Averaging - 3/16" Diameter, Bendable Aluminum	
	-A-12'	12' Duct Averaging - 3/16" Diameter, Bendable Aluminum	
	-A-24'	24' Duct Averaging - 3/16" Diameter, Bendable Aluminum	
	-A-XX'	Custom Length Duct Averaging - 3/16" Diameter, Bendable Aluminum, Call for Details	
	Optional Enclosure 2"x4" J-Box comes standard		
	-NB	No Junction Box, 6" Etched Teflon Leadwires	
	-BB	BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate	
	-BB2	BAPI-Box 2 Enclosure- IP66 rated, UV-resistant polycarbonate	
	-BB4	BAPI-Box 4 Enclosure - IP10 rated, nylon & plastic (Not for Transmitters) (IP44 rated if Pierceable Knockout Plug is installed in the open port.)	
	-WP	Weatherproof Enclosure - NEMA 3R rated, cast aluminum	
		Options	An enclosure is required
		-TB	Test & Balance Switch (BB or BB2 required, includes a Terminal Strip Connection, not available with Temp. Transmitter)
		-TS	Terminal Strip Connection (BB or BB2 required for units with a Thermistor, RTD or Semiconductor)***
EXAMPLE			
BA/	10K-2	-A-8'	-NB
Example Part Number: BA/10K-2-A-8'-NB			
Your Part Number:			

Call BAPI if you have questions about the above ordering grid or the configuration of the product you are ordering.

*MATCHED Transmitter use Class A RTD's & are matched at 25%, 50% & 75% of calibrated scale limited to within -25°C to 150°C.

**Range is limited to -40 to 185°F (-40 to 85°C)

***TS option is not available with the T10K transmitters.

Gray shaded items follow the Buy and Resale Multiplier.

