



Features & Options

- Series 304 Stainless Steel Probes: 2", 4", 8", 12" and 18"
- Several Enclosure Styles
- Double Encapsulated Sensors & Etched Teflon Leadwires
- Limited Lifetime Warranty
- Wide Selection of Temperature Sensing Elements

Single Point Duct Units feature closed cell foam to seal the probe insertion hole and to absorb vibration. Mounting tabs allow for easy installation directly to the wall of the duct.

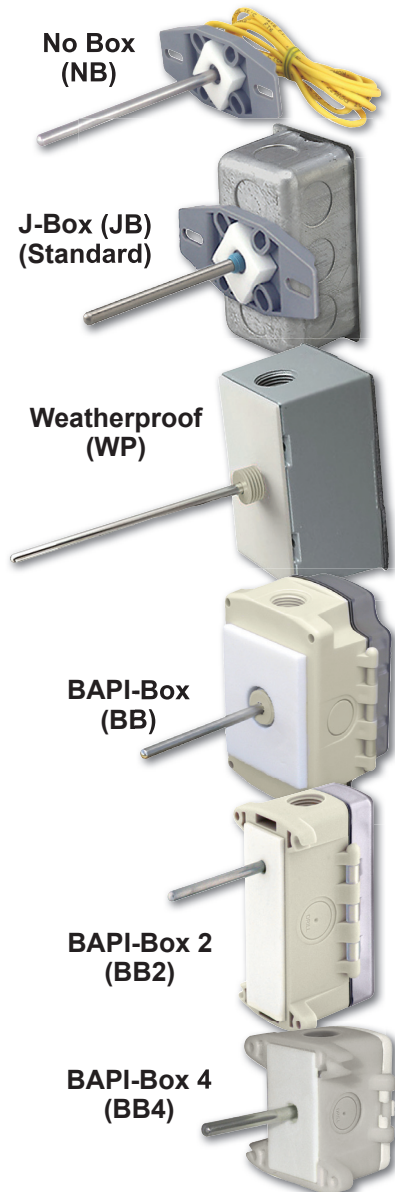
All Duct Units have etched Teflon leadwires and double encapsulated sensors to create a watertight package that can withstand high humidity and condensation and perform under real world conditions. Duct Units have probe lengths from 2" to 18" to accommodate most duct shapes and sizes. Custom probe lengths are also available.

Duct Units come standard with a 2"x4" steel J-Box but are also available with no box or four styles of enclosure: the metal Weatherproof, the UV-resistant polycarbonate BAPI-Box and BAPI-Box 2 or nylon & ABS plastic BAPI-Box 4.

Pierceable Knockout Plug

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

BAPI-Box 4 Duct Sensor
with Plug Installed



Specifications

Enclosure Material:

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

Enclosure Rating:

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

Environmental Operation Range:

Temp. Sensor: -40 °C to 105 °C
 Temp. Transmitter: -20 °C to 70 °C
 Humidity: 0 to 100%, non-condensing

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 Units

Temperature Sensors

A35Ordering Grids without List Prices are available on our website at www.bapihvac.com

Ordering Information				Duct Units - Temperature	List Price	Your Order														
BA/	Sensor Type (Required) Use the designator number (shown to the left in bold) to indicate the sensor																			
#	<p>THERMISTORS</p> <p>1.8K 1.8K Ω @ 25 °C 2.2K 2.2K Ω @ 25 °C 3K 3K Ω @ 25 °C 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</p> <p>TEMPERATURE TRANSMITTERS <i>Must include a "range" figure. Requires an enclosure.</i></p> <p>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**</p> <p>TEMPERATURE TRANSMITTER RANGES Custom temperature transmitter ranges are available. Common ranges are listed below</p> <table border="0"> <tr> <td>40 TO 90F</td> <td>4 TO 32C</td> <td>-30 TO 130F</td> <td>-34 TO 54C</td> </tr> <tr> <td>0 TO 100F</td> <td>-18 TO 38C</td> <td>32 TO 212F</td> <td>0 TO 100C</td> </tr> <tr> <td>20 TO 120F</td> <td>-7 TO 49C</td> <td>30 TO 234F</td> <td>-1 TO 112C</td> </tr> <tr> <td>32 TO 134F</td> <td>0 TO 57C</td> <td></td> <td></td> </tr> </table>	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			<p>RTDs</p> <p>1K[375] 1K Ω Platinum @ 0 °C, 3.75 Ω/°C temp. coeff. 1K[Ni] 1K Ω Nickel @ 21 °C, 5 Ω/°C temp. coeff. 1K 1K Ω Platinum @ 0 °C, 3.85 Ω/°C temp. coeff. 2K 2K Ω Silicon @ 20 °C, 8 Ω/°C temp. coeff.</p> <p>SEMICONDUCTORS</p> <p>334 LM334 Semiconductor 592 AD592 Semiconductor, 273 μA @ 0C 592-10K AD592 Semicond. w/ 10 kΩ shunt resistor, 2.73 V @ 0C</p>	<p>Thermistors \$18 Each</p> <p>RTD's \$25 Each or \$35 for 1K[Ni]</p> <p>Semi-conductors \$25 Each</p> <p>Temperature Transmitters \$125 for T1K & T10K</p> <p>\$280 for & T1KM</p>	\$ _____
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																			
	Probe Length (Required)																			
	-D-2"	2" length of 1/4" Diameter, Stainless Steel Probe			\$7	\$ _____														
	-D-4"	4" length of 1/4" Diameter, Stainless Steel Probe			\$7	\$ _____														
	-D-8"	8" length of 1/4" Diameter, Stainless Steel Probe			\$7	\$ _____														
	-D-12"	12" length of 1/4" Diameter, Stainless Steel Probe			\$7	\$ _____														
	-D-18"	18" length of 1/4" Diameter, Stainless Steel Probe			\$7	\$ _____														
	-D-XX"	Custom lengths of 1/4" Dia, Stainless Steel Probe are available. Call for details.			Call	\$ _____														
		Optional Enclosure Type 2"x4" Steel J-Box comes standard																		
	-BB	BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate			\$12	\$ _____														
	-BB2	BAPI-Box 2 Enclosure - IP66 rated, UV-resistant polycarbonate			\$12	\$ _____														
	-BB4	BAPI-Box 4 Enclosure - IP10 rated, nylon & plastic (Not for Transmitters) (IP44 rated if Pierceable Knockout Plug is installed in the open port.)			\$0	\$ _____														
	-WP	Weatherproof Enclosure - NEMA 3R rated, metal			\$12	\$ _____														
	-NB-18"	No Junction Box, 18" Lead Length, Plenum Rated Cable			\$0	\$ _____														
	-NB-5'	No Junction Box, 5' Lead Length, Plenum Rated Cable			\$2	\$ _____														
	-NB-10'	No Junction Box, 10' Lead Length, Plenum Rated Cable			\$4	\$ _____														
	-NB-15'	No Junction Box, 15' Lead Length, Plenum Rated Cable			\$6	\$ _____														
	-NB-XX	Custom lead lengths (Plenum Rated cable) are available. Call for details.			Call	\$ _____														
		Options An enclosure is required																		
	-TB	Test & Balance Switch (BB or BB2 required, includes a Terminal Strip Connection, not available with Temp. Transmitter)			\$7.50	\$ _____														
	-TS	Terminal Strip Connection (BB or BB2 required for units with a Thermistor, RTD or Semiconductor)***			\$0	\$ _____														
EXAMPLE																				
BA/	10K-2	-D-8"	-NB-5'																	
Example Part Number: BA/10K-2-D-8"-NB-5																				
Your Part Number																				
					Total =	\$ _____														

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 592-10K Semiconductor sensor or the T10K transmitters.

