



Features & Options

- 304 Stainless Steel Probes: 12", 18", 24", 36" & 48" lengths
- Very Thin Probe to Fit Between Coil Fins
- Five Enclosure Styles

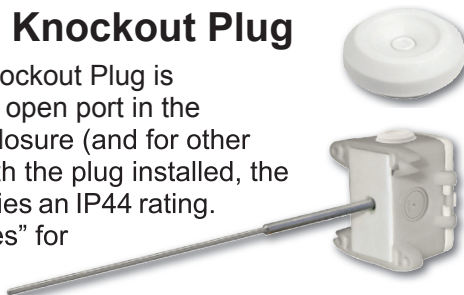
Submersible Duct Units feature closed cell foam to seal the probe insertion hole and absorb vibration and mounting tabs for easy installation. All units have etched Teflon leadwires and encapsulated sensors to create a watertight package that can perform under real world conditions.

Submersible Duct Units are available in probe lengths of 12", 18", 24", 36" and 48". Custom probe lengths are also available.

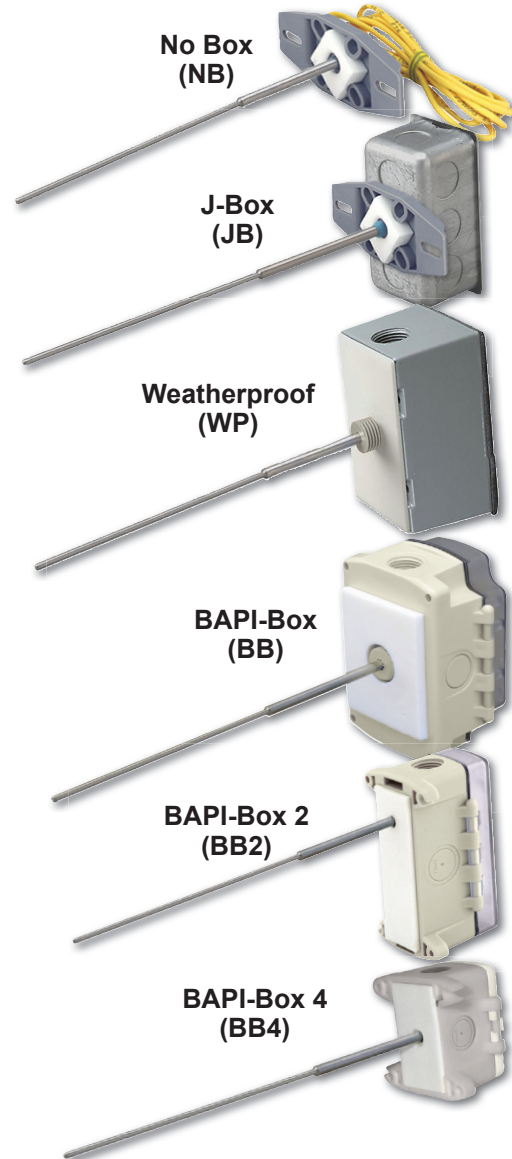
Submersible Duct Units come standard with a 2"x4" steel J-Box but are also available with No Box, a BAPI-Box 4 or three watertight enclosures: Weatherproof, BAPI-Box or BAPI-Box 2. BAPI also offers optional liquid-tight fittings.

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 Submersible Duct Sensor with Plug Installed



Specifications

Environmental Operation Range:

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

Encl. Rating:

J-Box Model: 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

Submersible Duct Units

Temperature Sensors

A41

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

Ordering Information				Submersible 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</p> <p>2.2K 2.2K Ω @ 25 °C</p> <p>3K 3K Ω @ 25 °C</p> <p>3.25K 3.25K Ω @ 25 °C (T30 type)</p> <p>3.3K 3.3K Ω @ 25 °C</p> <p>10K-2 10K Ω @ 25 °C</p> <p>10K-3 10K Ω @ 25 °C</p> <p>10K-3[11K] 5,238 Ω @ 25 °C</p> <p>20K 20K Ω @ 25 °C</p> <p>47K 47K Ω @ 25 °C</p> <p>50K 50K Ω @ 25 °C</p> <p>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</p> <p>T1KM[range] 1K Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output*</p> <p>T10K[range] 10K Thermistor, 10,000 Ω @ 25 °C with 4 to 20 mA Output**</p> <p>T10K5[range] 10K Thermistor, 10,000 Ω @ 25 °C with 0-5 VDC Output**</p> <p>T10K10[range] 10K Thermistor, 10,000 Ω @ 25 °C with 0-10 VDC Output**</p> <p>TEMPERATURE TRANSMITTER RANGES</p> <p>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.</p> <p>1K[Ni] 1K Ω Nickel @ 21°C, 5 Ω/°C temp. coeff.</p> <p>1K 1K Ω Platinum @ 0 °C, 3.85 Ω/°C temp. coeff.</p>	<p>Thermistors</p> <p>\$18 Each</p> <p>\$ _____</p> <p>RTD's</p> <p>\$25 Each</p> <p>or</p> <p>\$35 for 1K[Ni]</p> <p>\$ _____</p> <p>Temperature Transmitters</p> <p>\$125 for</p> <p>T1K & T10K</p> <p>\$ _____</p> <p>\$280 for</p> <p>T1KM</p> <p>\$ _____</p>	
40 TO 90F	4 TO 32C	-30 TO 130F	-34 TO 54C																	
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20 TO 120F	-7 TO 49C	30 TO 234F	-1 TO 112C																	
32 TO 134F	0 TO 57C																			
	Probe Length (Required)																			
	-SD-12"	12" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			\$117	\$ _____														
	-SD-18"	18" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			\$120	\$ _____														
	-SD-24"	24" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			\$138	\$ _____														
	-SD-36"	36" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			\$142	\$ _____														
	-SD-48"	48" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			\$150	\$ _____														
	-SD-XX"	Custom lengths of 1/8" Dia, Stainless Steel Probe are available. Call for details.			Call	\$ _____														
	Optional Enclosure Type 2"x4" Steel J-Box comes standard																			
	-WP	Weatherproof Enclosure - NEMA 3R rated metal enclosure			\$12	\$ _____														
	-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	\$ _____														
	-NB	No Junction Box or Enclosure - Comes w/ 6" Etched Teflon Leadwire (Not available w/transmitter option)			\$0	\$ _____														
	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	-SD-48"	-BB2																	
Example Part Number: BA/10K-2-SD-48"-BB2						Total =	\$ _____													
Your Part Number:																				

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

*Transmitters with matched outputs require a Class A sensor.

**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.

