



Features & Options

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

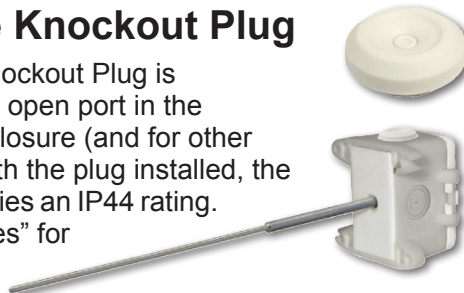
Submersible Duct Units feature closed cell foam to seal the probe insertion hole and absorb vibration and mounting tabs for easy installation. All units have etched Teflon leadwires and encapsulated sensors to create a watertight package that can perform under real world conditions.

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

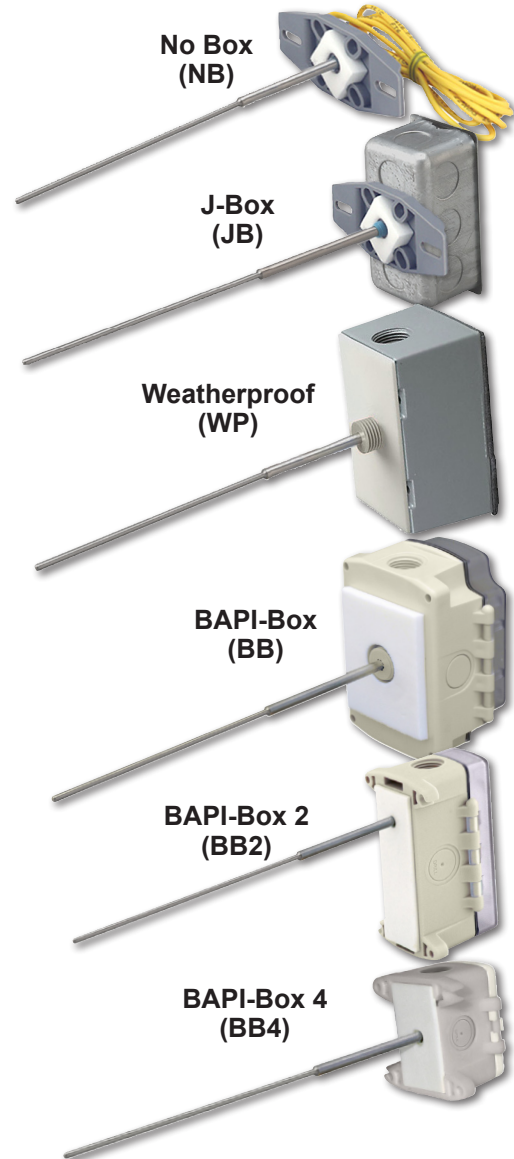
Submersible Duct Units come standard with a 2"x4" steel J-Box but are also available with No Box, a BAPI-Box 4 or three watertight enclosures: Weatherproof, BAPI-Box or BAPI-Box 2. BAPI also offers optional liquid-tight fittings.

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 Information		Submersible Duct Units - Temperature		
BA/				
Sensor Type (Required) Use the designator number (shown to the left in bold) to indicate the sensor				
#	THERMISTORS			
	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		
	RTDs			
	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.		
	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			
Probe Length (Required)				
-SD-12"	12" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			
-SD-18"	18" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			
-SD-24"	24" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			
-SD-36"	36" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			
-SD-48"	48" length of 1/8" Diameter, Stainless Steel Probe, plus 4" sleeve (0.25" diameter)			
-SD-XX"	Custom lengths of 1/8" Dia, Stainless Steel Probe are available. Call for details.			
Optional Enclosure Type 2"x4" Steel J-Box comes standard				
-WP	Weatherproof Enclosure - NEMA 3R rated metal enclosure			
-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.)			
-NB	No Junction Box or Enclosure - Comes w/ 6" Etched Teflon Leadwire (Not available w/transmitter option)			
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	-SD-48"	-BB2	
Example Part Number: BA/10K-2-SD-48"-BB2				
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.

