

Rev. 06/09/11

### Features & Options

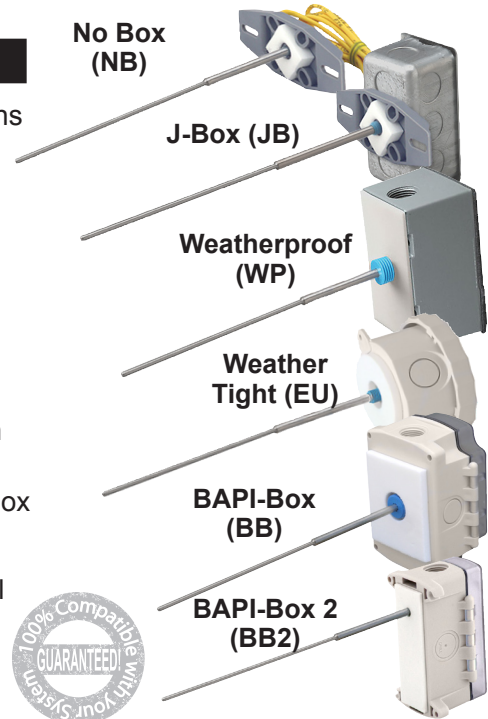
- 304 Stainless Steel Probes: 12", 18", 24", 36" & 48" lengths
- Very Thin Probe to Fit Between Coil Fins
- Five Enclosure Styles

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 in probe lengths of 12", 18", 24", 36" and 48" to accommodate most duct shapes and sizes. 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 (NB) or four styles of watertight enclosure: Weatherproof (WP), Weather Tight (EU), BAPI-Box (BB) or BAPI-Box 2 (BB2). BAPI also offers optional liquid-tight fittings. For a comparison of the enclosure styles, please see the App. Notes section.

\* All Passive Thermistors 10K  $\Omega$  and smaller are CE compliant.



**For detailed specs on the individual Sensors & Transmitters, turn to the "Sensors" Section.**

### Specifications

#### Enclosure Material:

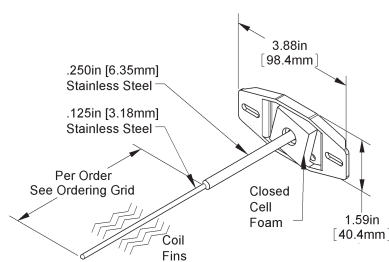
- J-Box Model: Galv. Steel • WP Model: Cast Aluminum
- EU Model: ABS Plastic, UL94, V-0
- BB & BB2: UV-resistant polycarbonate, UL94, V-0

#### Environmental Operation Range:

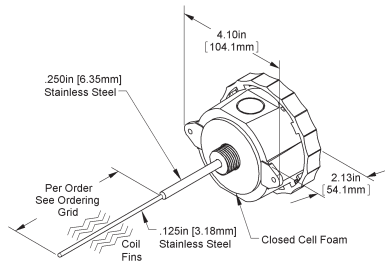
- Temperature Sensor:
  - EU, BB & BB2 Encl.: -40 °C to 85 °C
  - J-Box, WP & NB: -40 °C to 100 °C
- Temperature Transmitter: -20 °C to 70 °C
- Humidity: 0 to 100%, non-condensing

#### Encl. Rating: J-Box Model: NEMA 1

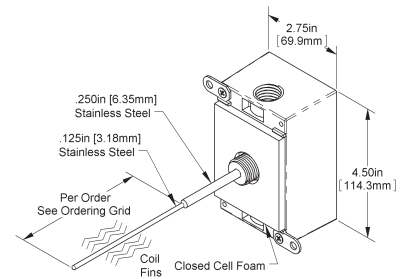
- WP Model: NEMA 3R
- EU, BB & BB2 Models: IP66, NEMA 4



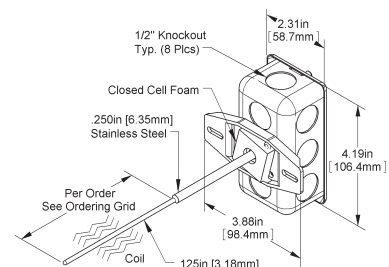
**No Box (NB)**



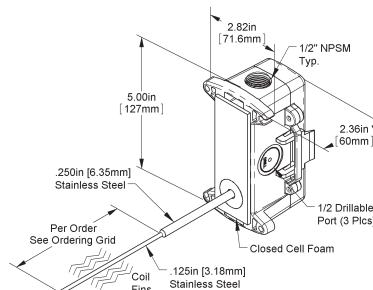
**Weather Tight (EU)**



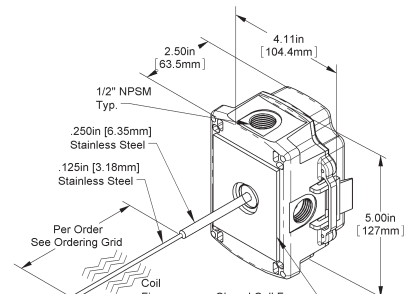
**Weatherproof (WP)**



**J-Box (JB)**



**BAPI-Box 2 (BB2)**



**BAPI-Box (BB)**



# Submersible Duct Units A53

## Temperature Sensors

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Ordering Grids without List Prices are available on our website at [www.bapihvac.com](http://www.bapihvac.com)

Ordering Information				Submersible Duct Units - Temperature	List Price	Your Order	
BA/	Sensor Type	Required selection	Use the designator number (shown to the left in bold) to indicate the sensor				
#	<b>Thermistors</b>					<b>Thermistors</b> \$18 Each	\$ _____
	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					
	<b>RTDs</b>					<b>RTD's</b> \$25 Each or \$35 for 1K[NI]	\$ _____
			100	100 Ω Platinum @ 0 °C, .385 Ω/°C temp. coeff.			
			100[3W]	3 Wire 100 Ω Plat. @ 0 °C, .385 Ω/°C temp. coeff.			
			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.			
	<b>TEMPERATURE TRANSMITTERS</b>		<i>Must include a "range" figure. Requires an enclosure.</i>			<b>Temperature Transmitters</b> \$125 for T100, T1K & T10K	\$ _____
	T100[range]	100 Platinum RTD, 100 Ω @ 0 °C with 4 to 20 mA Output					
	T100M[range]	100 Platinum RTD, 100 Ω @ 0 °C with MATCHED 4 to 20 mA Output*					
	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**						
<b>TEMPERATURE TRANSMITTER RANGES</b>		Custom temperature transmitter ranges are available. Common ranges are listed below			\$280 for T100M & T1KM	\$ _____	
	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					
<b>Probe Length (Required selection)</b>							
	-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. <b>Call for details.</b>			Call	\$ _____	
<b>Optional Enclosure Type 2"x4" Steel J-Box comes standard</b>							
	-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	\$ _____	
	-EU	Weather Tight Enclosure - IP66 rated ABS polymer enclosure			\$12	\$ _____	
	-EUO	Weather Tight Enclosure - IP66 rated UV-resistant enclosure			\$12	\$ _____	
	-NB	No Junction Box or Enclosure - Comes w/ 6" Etched Teflon Leadwire (Not available w/transmitter option)			\$0	\$ _____	
<b>Options An enclosure is required</b>							
	-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)***				\$ _____	
<b>EXAMPLE</b>							
BA/	10K-2	-SD-48"	-BB2				
Example Part Number: BA/10K-2-SD-48"-BB2					<b>Total =</b>	\$ _____	
<b>Your Part Number:</b>							

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 100[3W] RTD sensor or the T10K transmitters.

Gray shaded items follow the Buy and Resale Multiplier.