



Features & Options

- Clamp-On, Strap On or Remote Probe Options
- Double Encapsulated Sensors
- Wide Selection of Temperature Sensing Elements

These units are designed to monitor water temperature in retrofit or filled pipe applications. The strap units fit around the outside of a pipe, greatly reducing installation cost, while the remote probes are strapped directly onto the pipe.

All three units measure the water temperature by sensing the surface temperature of the pipe. The Strap Units have etched Teflon leadwires and come standard with a Junction Box enclosure. The Clamp-On Unit and the Remote Probes are available with an optional BAPI-Box 4 or a watertight BAPI-Box or BAPI-Box 2 enclosure. The Spring-Loaded Unit is available with an optional BAPI-Box 4 or BAPI-Box 2 enclosure.

Clamp-On Strap – This unit has a bendable copper sensing plate which forms to the curvature of the pipe. An adjustable hose clamp holds the unit in place around the pipes up to 4.5”.

Spring-Loaded Strap – Instead of removing the pipe insulation, the spring loaded sensing pad is held against the pipe through a hole cut in the insulation. It can be used with pipes up to 14.5” with up to 2” of insulation.

Remote Probes - These units have a 1.75” long stainless steel probe with either Plenum-Rated Cable or FEP-Jacketed Cable with a lead length of 18” (Other lengths are available by calling BAPI). Remote Probes are ideal for strap-on applications on any size pipe, or hard-to-access areas.

(See pg A56 for more Remote Probe Options.)



Clamp-On Straps with BAPI-Box 4, J-Box, BAPI-Box 2 & BAPI-Box (from left)



Spring Loaded Strap Units with BAPI-Box 4, J-Box & BAPI-Box 2 (from left)



Remote Probes with BAPI-Box 4, BAPI-Box 2 & BAPI-Box (from left)

Specifications

Enclosure Material:

BB or BB2 Models: Polycarbonate
J-Box: Galvanized Steel (J-Box)
BB4: Nylon & Plastic, UL94, V-0

Environmental Operation Range:

Temperature Sensor:
Clamp On: -65 to 100 °C,
Spring Loaded: -40 to 85 °C
Remote Probe: -40 to 105 °C
Temperature Transmitter: -20 to 70 °C
Humidity: 0 to 95%, non-condensing

Enclosure Rating:

J-Box: NEMA 1
BB & BB2 Models: IP66, NEMA 4
BB4: IP10 (IP44 with BAPI Knockout Plug installed.)

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)

(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.





Strap Units and Remote Probe Units

Rev. 02/25/15

Temperature Sensors

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

Ordering Information		Clamp-On Strap, Spring-Loaded Strap and Remote Probe Units		List Price	Your Order
BA/	Sensor Type (Required)	Use the designator number (shown to the left in bold) to indicate the sensor			
#		THERMISTORS	RTDs	Thermistors	
	1.8K	1.8K Ω @ 25 °C	1K[375] 1K Ω Platinum @ 0 °C, 3.75 Ω /°C temp. coeff.	\$18 Each	\$ _____
	2.2K	2.2K Ω @ 25 °C	1K[Ni] 1K Ω Nickel @ 21°C, 5 Ω /°C temp. coeff.	RTD's	
	3K	3K Ω @ 25 °C	1K 1K Ω Platinum @ 0 °C, 3.85 Ω /°C temp. coeff.	\$25 Each	\$ _____
	3.25K	3.25K Ω @ 25 °C (T30 type)	2K 2K Ω Silicon @ 20 °C, 8 Ω /°C temp. coeff.	or	
	3.3K	3.3K Ω @ 25 °C		\$35 for 1K[Ni]	
	10K-2	10K Ω @ 25 °C		Semi-conductors	
	10K-3	10K Ω @ 25 °C		\$25 Each	\$ _____
	10K-3[11K]	5,238 Ω @ 25 °C	334 LM334 Semiconductor		
	20K	20K Ω @ 25 °C	592 AD592 Semiconductor, 273 μ A @ 0 °C		
	47K	47K Ω @ 25 °C	592-10K AD592 Semicond. with 10 k Ω shunt resistor, 2.73 V @ 0 °C		
	50K	50K Ω @ 25 °C ¹			
	100K	100K Ω @ 25 °C			
		TEMPERATURE TRANSMITTERS	<i>Must include a "range" figure. Requires an enclosure.</i>	Temperature Transmitters	
	T1K[range]	1K Platinum RTD, 1,000 Ω @ 0 °C with 4 to 20 mA Output		\$125 for	\$ _____
	T1KM[range]	1K Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output*		T1K & T10K	
	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**		\$280 for	\$ _____
	T10K10[range]	10K Thermistor, 10,000 Ω @ 25 °C with 0-10 VDC Output**		T1KM	\$ _____
		TEMPERATURE TRANSMITTER RANGES			
		Custom temperature transmitter ranges are available. Common ranges listed below			
		30 TO 81F	-1 TO 27C	32 TO 134F	0 TO 57C
		0 TO 100F	-18 TO 38C	32 TO 212F	0 TO 100C
		20 TO 120F	-7 TO 49C		
	Configuration (Required)				
	-S	Clamp-On Strap - Fits 2" to 4.5" (5.08 to 11.4 cm) pipe with adjustable SS hose clamp.		\$10	\$ _____
	-STP	Spring-Loaded Strap - Fits 5" to 14.5" (12.7 to 36.8 cm) pipe with adjustable nylon straps.		\$25	\$ _____
	-RPP-18"	Remote Probe with Plenum Rated Cable - 18" Leads		\$0	\$ _____
	-RPFEP-18"	Remote Probe with FEP Jacketed Cable - 18" Leads		\$3	\$ _____
	-RPFEP2-18"	Remote Probe w/ FEP Jacketed Cable (suitable for extended submersion) - 18" Leads		\$10	\$ _____
		Optional BAPI-Box Enclosure J-Box comes standard on Strap Units			
	-BB	BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate (Not available on the Spring-Loaded Strap Units)		\$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	\$ _____
		Optional Terminal Block BB or BB2 enclosure required			
	-TS	Terminal Strip Connection (BB or BB2 required)***			
EXAMPLE					
BA/	10K-2	-S		Total =	\$ _____
Example Part Number: BA/10K-2-S					
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 592-10K Semiconductor sensor or the T10K transmitters.

¹The 50K Ω Thermistor is not available in the Clamp-On Strap (-S) and the Spring-Loaded Strap (-STP) units.

