



Features & Options

- Stainless Steel Probe & Industrial Construction

The Remote Temperature Sensor has been designed for use in applications from -200 °C to 600 °C. The unit is provided with a stainless steel probe and packaged to handle vibration, moisture, and wide temperature ranges. It can be used with the standard BAPI ruggedized temperature transmitter to provide a linear proportional 4 to 20 mA output.

Temperature		Resistance (Ω)	
°F	°C	1K RTD	100Ω RTD
-328	-200	195	
-148	-100	603	
32	0	1,000	100
122	50	1,194	119
212	100	1,385	139
392	200	1,758	176
572	300	2,120	212
752	400	2,470	247
932	500	2,809	281
1,112	600	3,136	314

Optional Temperature Transmitter

The Extreme Temperature RTD Units can be used with the remote mounted **BAPI** ruggedized temp transmitter to provide a linear proportional 4 to 20 mA output. For more info, see page A72.



Specifications

Sensor Type:

Platinum 1KΩ RTD (3.85 Ω/°C)

Platinum 100Ω RTD (.385 Ω/°C)

Reference Resistance: 1KΩ or 100Ω at 0°C

Probe Operating Range: -200 to 600°C

Humidity: 0 to 100%, non-condensing

Standard Accuracy: 0.1% at 0 °C

Enclosure Material:

WP Model: Cast Aluminum

BB & BB2: UV-resistant polycarb., UL94, V-0

BB4: Nylon & Plastic, UL94, V-0

Enclosure Operating Range:

WP Model: -100 to 1,000 °F (-73 to 538 °C)

BB, BB2 & BB4: -40 to 185 °F (-40 to 85 °C)

Enclosure Rating:

WP Model: NEMA 3R

BB & BB2: IP66, NEMA 4

BB4: IP44

Wiring to Probe:

PTFE Jacketed Cable or Fiberglass Insulated Leadwire

[1] PTFE Jacketed, -328 to 32°F (-200 to 0°C)

[2] PTFE Jacketed, 212 to 410°F (100 to 210°C)

[3] Fiberglass Ins., 482 to 900°F (250 to 482°C)

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)

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.)



Extreme Temp. Platinum RTDs - Remote

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Rev. 08/02/13

Temperature Sensors

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

Ordering Information				Extreme Temp. RTDs with Remote Sensor	List Price	Your Order		
BA/								
Platinum RTD Sensor Type Must select one								
	100[2]	100Ω Platinum RTD for operating range 212 to 410°F (100 to 210°C), PTFE Jacketed Cable						
	100[2][3W]	3 Wire 100Ω Plat. RTD for operating range 212 to 410°F (100 to 210°C), PTFE Jacketed Cable						
	100[3]	100Ω Plat. RTD for Operating Range 392 to 1,112°F (200 to 600°C), Fiberglass Insulated Leads						
	100[3][3W]	3 Wire 100Ω Plat. RTD for Operating Range 392 to 1,112°F (200 to 600°C), Fiberglass Insulated Leads						
	1K[1]	1K Platinum RTD for Operating Range -328 to 32°F (-200 to 0°C), PTFE Jacketed Cable			\$145 RTD	\$ _____		
	1K[2]	1K Platinum RTD for Operating Range 212 to 410°F (100 to 210°C), PTFE Jacketed Cable						
	1K[3]	1K Platinum RTD for Operating Range 392 to 1,112 °F (200 to 600 °C), Fiberglass Insulated Leads						
Probe Wire Length Must select one								
	-RP-5'	Sensor with 5' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^					\$5	\$ _____
	-RP-10'	Sensor with 10' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^					\$10	\$ _____
	-RP-15'	Sensor with 15' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^			\$15	\$ _____		
Optional Enclosure (comes with liquid tight fittings)								
	-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 - IP44 rated, nylon & plastic (Not for Transmitters)			\$0	\$ _____		
	-WP	Weatherproof Enclosure - NEMA 3R rated, cast aluminum			\$12	\$ _____		
Optional Terminal Block BB or BB2 enclosure required								
	-TS	Terminal Strip Connection (BB or BB2 required)**			\$0	\$ _____		
EXAMPLE								
BA/	1K[1]	-RP-5'	-BB					
Part Number: BA/1K[1]-RP-5'-BB					Total =	\$ _____		
Your Part Number:								

Call BAPI if you have questions about the above ordering grid.

*Custom wire lengths are available. Call BAPI for details.

^The high temperature units [3] have fiberglass insulated leadwires, the other units have PTFE jacketed cable.

Note: Order temperature transmitters separately as needed.

Gray shaded items follow the Buy and Resale Multiplier.

