

## Boiler, Stack or Cryogenic

### Features & Options

- Stainless Steel Probe & Industrial Construction
- Double-ended 1/2" NPT Stainless Steel Fitting
- Optional Weatherproof Enclosure
- Standard or Outside Mount Configurations

The Extreme Temperature Platinum RTD Units are designed for use in applications from -200°C to 600°C. They are packaged to handle vibration, moisture, and wide temperature ranges.

The Immersion Unit has a stainless steel probe with a 1/2" NPT double-ended stainless steel fitting. It is available with a cast aluminum Weatherproof enclosure.

The Remote Unit has a stainless steel probe with PTFE jacketed cable or fiberglass insulated leads and is available as a probe alone or with a BAPI-Box, BAPI-Box 2, BAPI-Box 4 or Weatherproof enclosure.

These units can be used with a remote mounted BAPI ruggedized temp transmitter to provide a linear proportional 4 to 20 mA output. For more info, see page A58.

### Specifications

**Sensor Type:** Platinum 1KΩ RTD (3.85 Ω/°C)

**Reference Resistance:** 1KΩ at 0°C

**Operating Range:** -328 to 1,112°F (-200 to 600°C)

**Humidity:** 0 to 100%, non-condensing

**Standard Accuracy:** 0.1% at 0°C

**Wiring to Probe:**

PTFE Jacketed Cable or Fiberglass Insulated Leadwire

- [1] PTFE Jacketed, -328 to 32°F (-200 to 0°C)
- [2] PTFE Jacketed, 77 to 500°F (25 to 260°C)
- [3] Fiberglass Ins., 77 to 1,112°F (25 to 600°C)

**Enclosure Material:**

WP Model: Cast Aluminum

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

BB4 Model: Nylon & Plastic, UL94, V-0

**Enclosure Operating Range:**

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

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

**Enclosure Rating:**

WP Model: NEMA 3R

BB & BB2 Model: IP66, NEMA 4

BB4 Model: IP10 (IP44 with Knockout Plug)

**Encl. Dimensions: H x W x D**

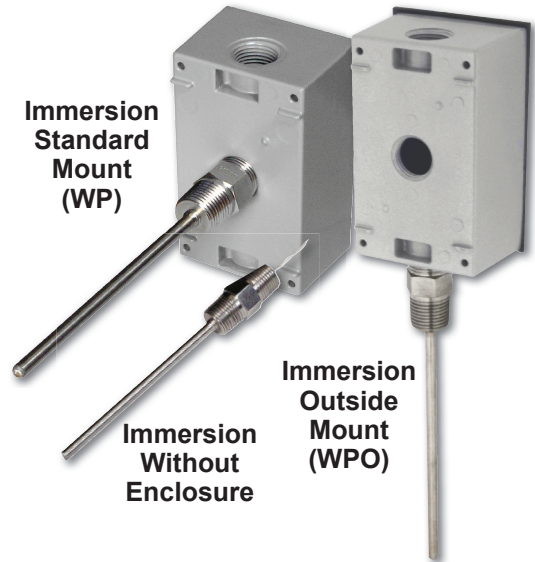
BAPI-Box (BB) 5 x 4.1 x 2.5" (127 x 104 x 63.5mm)

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, see the end of the section)





Ordering Information				Extreme Temperature RTD with 316 Stainless Steel Immersion Probe			
BA/							
Platinum RTD Sensor Type		Must select one		36" Wire Lead Length			
1K[1]		1K		1K Platinum RTD for Operating Range -328 to 32 °F (-200 to 0 °C), PTFE Insulation Leads			
1K[2]		1K		1K Platinum RTD for Operating Range 77 to 500 °F (25 to 260 °C), PTFE Insulation Leads			
1K[3]		1K		1K Platinum RTD for Operating Range 77 to 1,112 °F (25 to 600 °C), Fiberglass Insulation Leads			
Probe Selection		Must select one					
-I-2"		3.5"		length of 1/4" Diameter, 316 Stainless Steel Probe, double-ended 1/2" NPT			
-I-4"		5.5"		length of 1/4" Diameter, 316 Stainless Steel Probe, double-ended 1/2" NPT			
-I-8"		8.5"		length of 1/4" Diameter, 316 Stainless Steel Probe, double-ended 1/2" NPT			
Optional Weatherproof Enclosure							
		-WP		NEMA 3R rated metal Weatherproof Enclosure			
		-WPO		NEMA 3R rated metal Weatherproof Enclosure, Outside Air Mount			
EXAMPLE							
BA/	1K[1]	-I-2"	-WP				
Part Number: BA/1K[1]-I-2"-WP							
Your Part Number:							

Call BAPI if you have questions about the above ordering grid.  
 Note: Order temperature transmitters separately as needed.

Ordering Information				Extreme Temp. RTDs with 2", 304 Stainless Steel Remote Sensor			
BA/							
Platinum RTD Sensor Type		Must select one					
1K[1]		1K		1K Platinum RTD for Operating Range -328 to 32°F (-200 to 0°C), PTFE Jacketed Cable			
1K[2]		1K		1K Platinum RTD for Operating Range 77 to 500 °F (25 to 260 °C), PTFE Insulation Leads			
1K[3]		1K		1K Platinum RTD for Operating Range 77 to 1,112 °F (25 to 600 °C), Fiberglass Insulation Leads			
Probe Wire Length		Must select one					
-RP-5'		2"		SS Sensor with 5' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^			
-RP-10'		2"		SS Sensor with 10' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^			
-RP-15'		2"		SS Sensor with 15' Wire Length* - PTFE Jacketed Cable or Fiberglass Insulated Leads ^			
Optional Enclosure (comes with liquid tight fittings)							
		-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.)			
		-WP		Weatherproof Enclosure - NEMA 3R rated, cast aluminum			
				Optional Terminal Block BB or BB2 enclosure required			
		-TS		Terminal Strip Connection (BB or BB2 required)**			
EXAMPLE							
BA/	1K[1]	-RP-5'	-BB				
Part Number: BA/1K[1]-RP-5'-BB							
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.

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

Gray shaded items follow the Buy and Resale Multiplier.