



## 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 Crossover 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:**

Weatherproof: Cast Aluminum

BAPI-Box Crossover:

UV-resistant polycarb., UL94, V-0

**Enclosure Operating Range:**

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

BAPI-Box Crossover: -40 to 185 °F (-40 to 85 °C)

**Enclosure Rating:**

Weatherproof: IP24, NEMA 3R

BAPI-Box Crossover (BBX):

IP10, NEMA 1

IP44 with knockout plug in open port

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

BAPI-Box Crossover: 3.1 x 2.2 x 1.9" (79 x 56 x 49mm)

Weatherproof: 4.5 x 2.75 x 2.2" (114 x 70 x 55mm)

(For enclosure dimension drawings, see the end of the section)

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Use the Option Selection Guide below to create your custom part number. Replace the number and parenthesis with the designator for each selection. Skip the designator and dashes for optional selections that are not required in your configuration.



### Extreme Temp Immersion Option Selection Guide

BA/ ( #1 ) - ( #2 ) - ( #3 )

#### #1: Platinum RTD Temperature Sensor (required)

1K[1] ..... 1K Plat. RTD, -328 to 32 °F (-200 to 0 °C), PTFE Insulation Leads  
1K[2] ..... 1K Plat. RTD, 77 to 500 °F (25 to 260 °C), PTFE Insulation Leads  
1K[3] ..... 1K Plat. RTD, 77 to 1,112 °F (25 to 600 °C), Fiberglass Insulation Leads

#### #2: Probe Type and Length (required)

I-2" ..... 3.5" length of 1/4" Diameter, 316 SS Probe, double-ended 1/2" NPT  
I-4" ..... 5.5" length of 1/4" Diameter, 316 SS Probe, double-ended 1/2" NPT  
I-8" ..... 8.5" length of 1/4" Diameter, 316 SS Probe, double-ended 1/2" NPT

#### #3: Enclosure Style and Probe Mount (optional)

WP ..... Weatherproof (IP24, NEMA 3R)  
WPO ..... Weatherproof (IP24, NEMA 3R), Outside Mount, (probe out the bottom)

### Extreme Temp Remote Option Selection Guide

BA/ ( #1 ) - ( #2 ) - ( #3 )

#### #1: Platinum RTD Temperature Sensor (required)

1K[1] ..... 1K Plat. RTD, -328 to 32 °F (-200 to 0 °C), PTFE Insulation Leads  
1K[2] ..... 1K Plat. RTD, 77 to 500 °F (25 to 260 °C), PTFE Insulation Leads  
1K[3] ..... 1K Plat. RTD, 77 to 1,112 °F (25 to 600 °C), Fiberglass Insulation Leads

#### #2: Probe Type and Length (required)

RP-5' ..... 2" SS Sensor with 5' PTFE Jacketed Cable or Fiberglass Insulated Leadwires  
RP-10' ..... 2" SS Sensor with 10' PTFE Jacketed Cable or Fiberglass Insulated Leadwires  
RP-15' ..... 2" SS Sensor with 15' PTFE Jacketed Cable or Fiberglass Insulated Leadwires

#### #3: Enclosure Style and Probe Mount (optional)

WP ..... Weatherproof (IP24, NEMA 3R)  
BBX ..... BAPI-Box Crossover (IP10, NEMA 1)

**Example Number:** BA/ ( 1K[1] ) - ( I-2" ) - ( WP )

**Actual Number (with parenthesis removed):** BA/1K[1]-I-2"-WP

**Description:** 1K Plat. RTD, -328 to 32 °F (-200 to 0 °C), Immersion Sensor with Stainless Steel Fitting, Weatherproof Enclosure, No Test and Balance or Terminal Strip.

**Your Number:** BA/

Gray shaded items follow the Buy and Resale Multiplier.

