



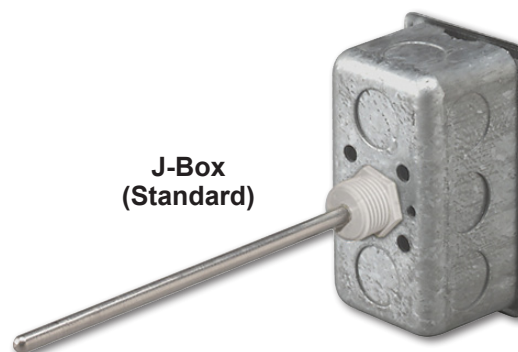
## Features & Options

- Probe Lengths: 2", 4" & 8" (fit standard BAPI Thermowell lengths)
- Series 304 Stainless Steel Probes and three Enclosure Styles
- Double Encapsulated Sensors & Etched Teflon Leadwires

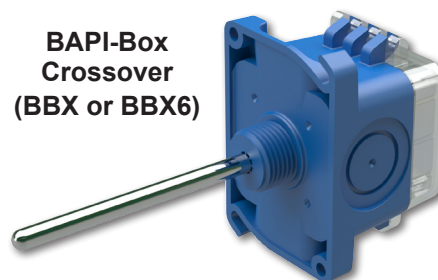
Immersion Units are available in 2", 4" and 8" probe lengths. The sensor is potted inside a 1/4" stainless steel probe with thermally conductive compound.

All Immersion Units have etched Teflon leadwires and double encapsulated sensors to create a watertight package that can withstand high humidity and condensation.

Immersion Units come standard with a 2"x4" steel J-Box but are also available with the metal Weatherproof enclosure or the new BAPI-Box Crossover enclosure.



**J-Box  
(Standard)**



**BAPI-Box  
Crossover  
(BBX or BBX6)**

### The BAPI-Box Crossover

The new BAPI-Box Crossover enclosure features a hinged cover with thumb latch for easy termination. It is available with a pierceable knockout plug for the open port and a watertight gasket for the cover.



*(Shown with optional plug and gasketed cover.)*

### BAPI Thermowells

Immersion Unit Probes are designed to be inserted into a Thermowell. For more info on Thermowells, see page A40.



## Specifications

### Environmental Operation Range:

Temperature:

BAPI-Box Crossover: -40 to 85 °C

Other Enclosures: -40 to 100 °C

Humidity: 0 to 100%, non-condensing

### Sensing Element:

Thermistor or RTD (See Sensors Section for Specs.)

### Probe Material:

Stainless Steel, 1/4" diameter

### Enclosure Material:

Junction Box: Galvanized Steel

BAPI-Box Crossover:

UV-resistant polycarbonate, UL94, V-0

### Enclosure Rating:

Junction Box: IP20, NEMA 1

BAPI-Box Crossover (BBX): IP10, NEMA 1

BAPI-Box Crossover (BBX6): IP66, NEMA 4X

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

BAPI-Box Crossover:

3.1 x 2.2 x 1.9" (79 x 56 x 49mm)

Junction Box

4.2 x 3.9 x 1.94" (106 x 98.4 x 49mm)

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





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.

### Immersion Sensor Option Selection Guide

BA/ ( **#1** ) - ( **#2** ) - ( **#3** ) - ( **#4** )

#### **#1: Temperature Sensor** (required)

1.8K .....	1.8K Thermistor
3K .....	3K Thermistor
10K-2 .....	10K-2 Thermistor
10K-3 .....	10K-3 Thermistor
10K-3[11K] .....	10K-3[11K] Thermistor
20K .....	20K Thermistor
1K[375] .....	1K Platinum RTD (375 curve)
1K[Ni] .....	1K $\Omega$ Nickel RTD
1K .....	1K Platinum RTD (385 curve)

Transmitters below require a BAPI-Box Crossover Enclosure

T1K[32 TO 212F] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, 32 to 212°F Range
T1K[20 TO 120F] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, 20 to 120°F Range
T1K[0 TO 100F] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 100°F Range
T1K[0 TO 100C] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 100°C Range
T1K[-7 TO 49C] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, -7 to 49°C Range
T1K[-18 TO 38C] .....	1K Plat. RTD Transmitter, 4 to 20 mA Output, -18 to 38°C Range

*Matched Transmitters are also available. Contact your BAPI representative for ordering.*

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

I-2" .....	Immersion, 2" (51mm) length
I-4" .....	Immersion, 4" (102mm) length
I-8" .....	Immersion, 8" (203mm) length

#### **#3: Enclosure and Lead Length** (optional, comes standard with Junction Box)

BBX .....	BAPI-Box Crossover (IP10, NEMA 1)
BBX6 .....	BAPI-Box Crossover with Gasket and Knockout Plug (IP66, NEMA 4X)

#### **#4: Test & Balance or Terminal Strip** (optional, requires a BAPI-Box Crossover Enclosure)

TB .....	Test & Balance Switch
TS .....	Terminal Strip Connection

*Additional options are available for these units but not shown in this Selection Guide. Contact your BAPI representative for the complete list of options. Submittal sheets without List Prices can be downloaded from our website at [www.bapihvac.com](http://www.bapihvac.com)*

**Example Number:** BA/ ( **10K-2** ) - ( **I-2"** ) - ( **BBX6** ) - (   )

**Actual Number (with parenthesis removed):** BA/10K-2-I-2"-BBX66

**Description:** 10K-2 Thermistor, Immersion Sensor, BAPI-Box Crossover (IP66), No Test and Balance or Terminal Strip.

**Your Number:** BA/

