



Features & Options

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

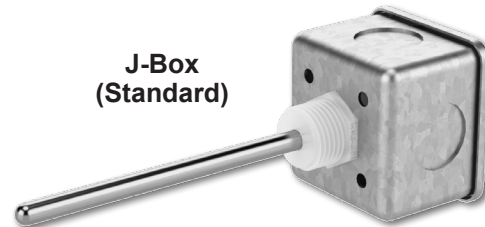
Immersion Units are available in 2", 4" and 8" probe lengths. The sensor is potted inside a 1/4" stainless steel probe with thermally conductive compound.

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

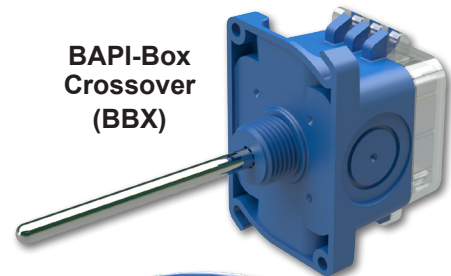
Immersion Units come standard with a 2"x4" steel J-Box but are also available with no box, the BAPI-Box, the BAPI-Box 2 or the BAPI-Box Crossover enclosures.

BAPI Thermowells

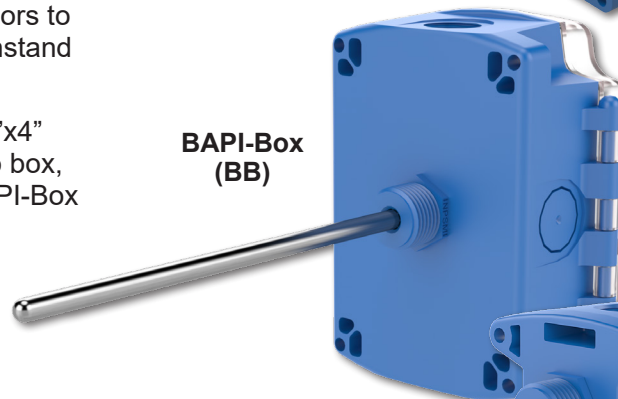
Immersion Unit Probes are designed to be inserted into a Thermowell. For more info on Thermowells, see page B44.



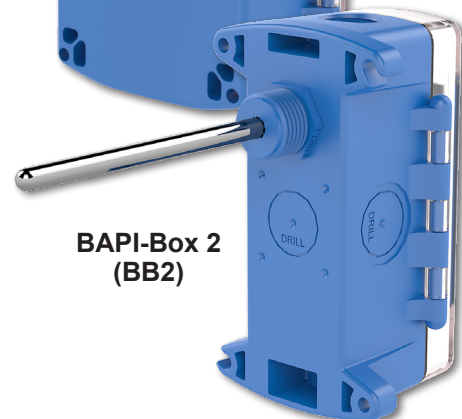
J-Box
(Standard)



BAPI-Box
Crossover
(BBX)



BAPI-Box
(BB)



BAPI-Box 2
(BB2)

Specifications

Environmental Operation Range:

Temperature:

BBX: -40 to 185°F (-40 to 85°C)

Other Enclosures: -40 to 212°F (-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:

J-Box: Galvanized Steel

BBX: Polycarbonate (UL94 V-0) & Nylon (UL94 HB)

BB & BB2: UV-Resistant Polycarb. (UL94 V-0)

Enclosure Rating:

J-Box: IP20, NEMA 1

BBX: IP10, NEMA 1

IP44 with knockout plug in open port

BB & BB2: IP66, NEMA 4

Enclosure Dimensions: H x W x D

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

J-Box: 2.1 x 2.1 x 1.94" (54.6 x 54.6 x 49mm)

BB: 5 x 4.1 x 2.5" (127 x 104 x 63.5mm)

BB2: 4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm)

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





Immersion Probes with nylon fitting

Temperature Sensors

B41

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 Ω Nickel RTD
1K	1K Platinum RTD (385 curve)

Transmitters below require a BAPI-Box Crossover, BAPI-Box or BAPI-Box 2 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 130F] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 130°F Range
 T1K[0 TO 150F] 1K Plat. RTD Transmitter, 4 to 20 mA Output, 0 to 150°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 or IP44 with knockout plug installed)
BB	BAPI-Box (1P66, NEMA 4)
BB2	BAPI-Box 2 (1P66, NEMA 4)

#4: Test & Balance or Terminal Strip (optional, requires a BAPI-Box Crossover, BAPI-Box or BAPI-Box 2)

TB	Test & Balance Switch
TS	Terminal Strip Connection (The \$7 does not apply to T1K transmitter units)

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

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

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

Description: 10K-2 Thermistor, Immersion Sensor, BAPI-Box Crossover Enclosure

Your Number: BA/



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