



## Features & Options

- Clamp-On, Spring-Loaded or Remote Probes
- Junction Box or BAPI-Box Crossover Enclosure

These units are designed to monitor water temperature in retrofit or filled pipe applications. The strap units fit around the outside of a pipe, while the remote probes are strapped directly onto the pipe. All three units measure the water temperature by sensing the surface temperature of the pipe.

Strap Units and Remote Probes come standard with a Junction Box enclosure but are also available with a new BAPI-Box Crossover enclosure.

**Clamp-On Strap** – This unit has a bendable copper sensing plate which forms to the curvature of the pipe. An adjustable hose clamp holds the unit in place around the pipes up to 4.5”.

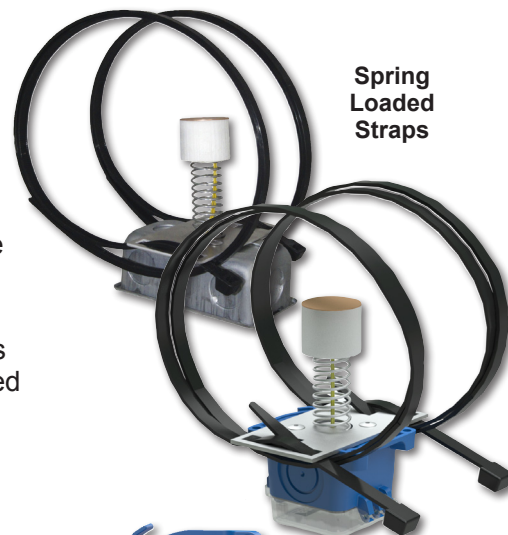
**Spring-Loaded Strap** – Instead of removing the pipe insulation, the spring loaded sensing pad is held against the pipe through a hole cut in the insulation. It can be used with pipes up to 14.5” with up to 2” of insulation.

**Remote Probes** - These units have a 1.75” long stainless steel probe with either Plenum-Rated Cable or FEP-Jacketed Cable with a lead length of 18” (Other lengths are available by calling BAPI). Remote Probes are ideal for strap-on applications on any size pipe, or hard-to-access areas.

(See pg A48 for more Remote Probe Options.)



Clamp-On Units



Spring Loaded Straps



### BAPI-Box Crossover

The new BAPI-Box Crossover 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.)



Remote Probe

## Specifications

### Enclosure Material:

Junction Box: Galvanized Steel  
BAPI-Box Crossover:  
UV-resistant polycarb., UL94, V-0

### Environmental Operation Range:

Temperature Sensor:  
Clamp On: -65 to 100 °C,  
Spring Loaded: -40 to 85 °C  
Remote Probe: -40 to 105 °C  
Temperature Transmitter: -20 to 70 °C  
Humidity: 0 to 95%, non-condensing

### Enclosure Rating:

Junction Box: IP20, NEMA 1  
BAPI-Box Crossover (BBX): IP10, NEMA 1  
BAPI-Box Crossover (BBX6): IP66, NEMA 4X

### Sensing Element:

Thermistor or RTD (See Sensors Section for Specs.)

### 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 encl. dimension drawings, turn to 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 Ω 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: Strap Config & Enclosure** (optional)

- S ..... Clamp-On Strap
- STP ..... Spring Loaded Strap
- RPP ..... Remote Probe with 18" of Plenum Rate Cable
- RPPFEP-18" ..... Remote Probe with 18" of FEP-Jacketed Cable
- RPPFEP2-18" ..... Remote Probe w/ 18" of FEP-Jacketed Cable (suitable for submersion)

**#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.*

**Example Number:** BA/ ( **10K-2** ) - ( **S** ) - ( **BBX** ) - ( )

**Actual Number (with parenthesis removed):** BA/10K-2-S-BBX

**Description:** 10K-2 Thermistor, Clamp-On Strap, BAPI-Box Crossover Enclosure, No Terminal Strip.

**Your Number:** BA/

