# Immersion Temperature Sensors

AUTOMATEDLOGIC
United Technologies

## Accessory for HVAC/R

Automated Logic's Immersion Temperature Sensors are available in 2", 4", and 8" probe lengths. The sensor is potted inside a 1/4" stainless steel probe with thermally conductive epoxy. 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 or a nylon and ABS plastic BAPI-Box 4 enclosure. They are also available with a watertight BAPI-Box or BAPI-Box 2 enclosure.
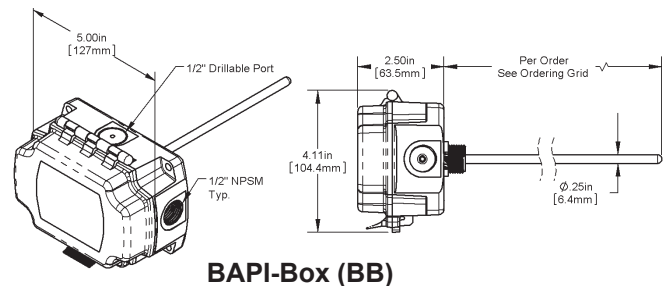
**J-Box**
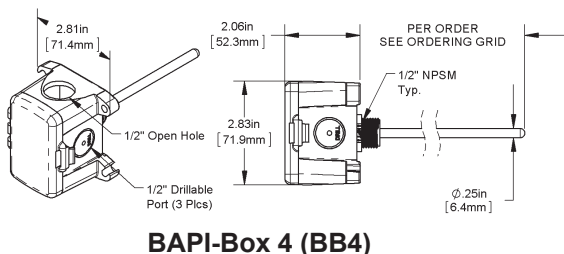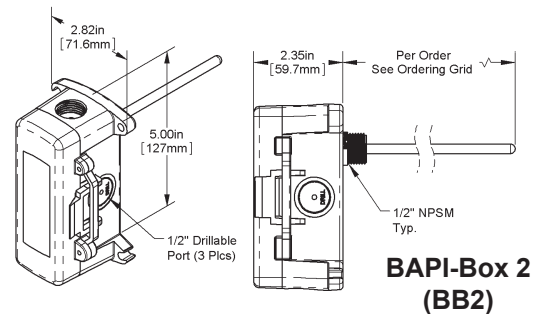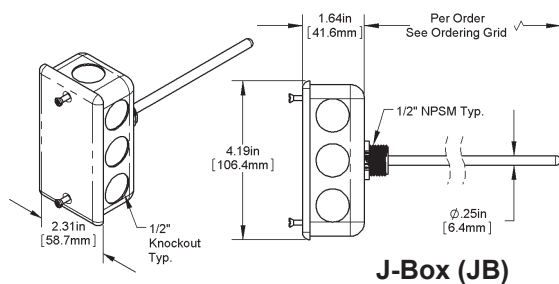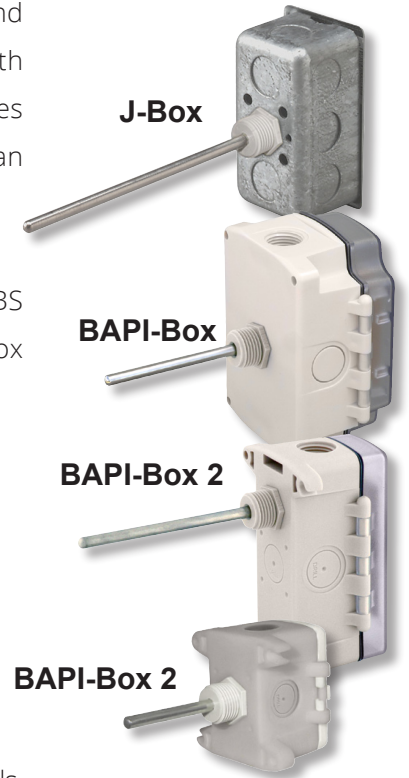
**BAPI-Box**

**BAPI-Box 2**

**BAPI-Box 2**

### Features

- 2", 4" & 8" Probe Lengths: (fit our standard Thermowells)
- Series 304 SS Probes & Double Encapsulated Sensors
- Optional BAPI-Box or BAPI-Box 2 Enclosure

### Thermowells

Probes are designed to be inserted into a Thermowell. Thermowells are available in lengths to match our Immersion Probe Lengths.



**J-Box (JB)**



**BAPI-Box 2 (BB2)**



**BAPI-Box 4 (BB4)**



**BAPI-Box (BB)**

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Next level building automation engineered to help you make smart decisions.

# Immersion Temperature Sensors

## Specifications

Environmental Operation Range:

Temperature Sensor:

- J-Box: -40 °C to 100 °C
- BAPI Box: -40 °C to 85 °C
- Humidity: 0 to 100%, non-condensing

**10K-2 Thermistor Sensor:**

- Resistance: 10 kΩ @ 25°C, -55 to 150°C range
- Standard Accuracy: 0.2°C (±0.36°F) at 0 to 70°C
- Dissipation Constant: 2.7 mW/°C
- Stability(drift): Less than ±0.1°C (0.18°F) drift over 10 years

Enclosure Material:

BAPI-Box: Polycarbonate, UL94, V-0

BAPI-Box 2: Polycarbonate, UL94, V-0

BAPI-Box 4: Nylon & ABS Plastic, UL94, V-0

J-Box Model: Galv. Steel

Enclosure Rating:

BAPI-Box or BAPI-Box 2: IP66, NEMA 4

BAPI-Box 4 Model: IP10 (IP44 with Knockout Plug)

J-Box Model: IP20, NEMA 1

| Part Number | Description |
| --- | --- |
| NSB-10K-2-I-2-A | IMMERSION TEMPERATURE SENSOR - J-BOX - 2 IN. PROBE NO LOGO - ALC |
| NSB-10K-2-I-2-BB2-A | IMMERSION TEMP SENSOR - BB2 ENCLOSURE - 2 IN. PROBE LOGO - ALC |
| NSB-10K-2-I-2-BB2-M304-A | IMMERSION TEMP SENSOR - BB2 ENC - 2 IN. - 304 SS WELL LOGO - ALC |
| NSB-10K-2-I-2-BB4-A | IMMERSION TEMP SENSOR - BB4 ENC - 2 IN. PROBE LOGO - ALC |
| NSB-10K-2-I-2-M304-A | IMMERSION TEMP SENSOR - J-BOX - 2 IN. - 304 SS WELL NO LOGO - ALC |
| NSB-10K-2-I-4-A | IMMERSION TEMP SENSOR - J-BOX ENC - 4 IN. -NO LOGO - ALC |
| NSB-10K-2-I-4-BB2-A | IMMERSION TEMP SENSOR - BB2 ENC - 4 IN. - C28 LOGO - ALC |
| NSB-10K-2-I-4-BB2-M304-A | IMMERSION TEMP SENSOR - BB2 ENC - 4 IN. - 304 SS WELL LOGO - ALC |
| NSB-10K-2-I-4-BB4-A | IMMERSION TEMP SENSOR - BB4 ENC - 4 IN. PROBE LOGO - ALC |
| NSB-10K-2-I-4-M304-A | IMMERSION TEMP SENSOR - J-BOX - 4 IN.  304 SS WELL NO LOGO - ALC |

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