

# Strap Temp Sensor

## Accessories for HVAC/R

Automated Logic Spring-Loaded Strap Sensors are designed to monitor water temperature in retrofit or filled pipe applications. They fit around the outside of a pipe, greatly reducing installation cost. They measure the water temperature by sensing the surface temperature of the pipe.

Instead of removing the insulation, the spring-loaded sensing pad is held against the pipe through a hole in the insulation. Fits pipes up to 36.8cm with up to 50mm of insulation.

These units have etched Teflon leadwires and double encapsulated sensors and come with a steel J-Box Enclosure, a plastic BAPI-Box 4, or a plastic BAPI-Box 2 Enclosure.



### Part Number

### Description

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| NSB-10K-2-STP-A     | Spring-Loaded Strap with 10K-2 Thermistor and J-Box Enclosure      |
| NSB-10K-2-STP-BB2-A | Spring-Loaded Strap with 10K-2 Thermistor and BAPI-Box 2 Enclosure |
| NSB-10K-2-STP-BB4-A | Spring-Loaded Strap with 10K-2 Thermistor and BAPI-Box 4 Enclosure |

### Specifications

Enclosure Material and Enclosure Rating:

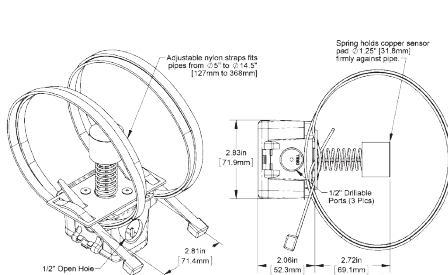
- J-Box: Galvanized Steel, IP20, NEMA 1
- BAPI-Box 2: Polycarbonate, IP66, NEMA 4
- BAPI-Box 4: Nylon & Plastic, IP10
  - (IP44 rating with Knockout Plug)

Environmental Operation Range:

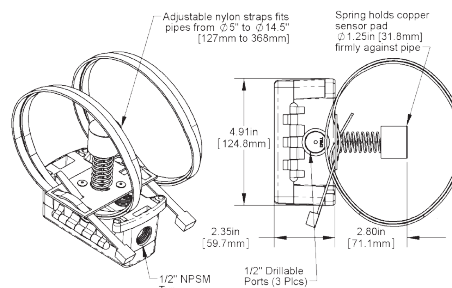
- Temp. Sensor: -40 to 85°C (-40 to 185°F)
- Humidity: 0 to 95%, non-condensing

10K-2 Thermistor Sensor:

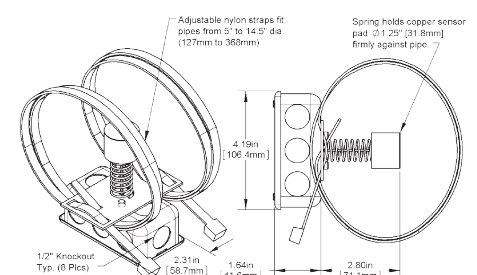
- Resistance: 10 kΩ @ 25°C, -55 to 150°C range
- Standard Accuracy: 0.2°C (±0.36°F) at 0 to 70°C
- Dissipation Constant: 2.7 mW/°C
- Stability(drift): Less than ±0.1°C (0.18°F) drift over 10 years



Spring-Loaded Strap BAPI-Box 4



Spring-Loaded Strap BAPI-Box 2



Spring-Loaded Strap J-Box