



TS-I Sensor Series

Immersion Temperature Sensors



Overview

This series of single point temperature sensor utilizes a precision sensor encapsulated in a 6.35 mm (0.25" OD, 304 series stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resistance to moisture penetration.

Applications

- Used for measuring temperature on supply and return hot water pipes of heating systems
- Used for measuring temperature in domestic hot water tanks and piping
- Used for measuring temperature in supply and return lines in chillers

Features & Benefits

- Economical
- Ease of Installation
- Probes made of corrosion resistant 304 stainless steel
- Accurate temperature monitoring for increased comfort
- Sensors are hermetically sealed

Accessories

Thermal Joint Compound

TS-JC2	Thermal Joint Compound, 2 oz Jar
TS-JC5	Thermal Joint Compound, 5 oz Tube
TS-JC8	Thermal Joint Compound, 8 oz Jar

Thermowells

TS-WS304002	50mm (2") 304 SS well
TS-WS304004	100mm (4") 304 SS well
TS-WS304006	150mm (6") 304 SS well
TS-WS304008	200mm (8") 304 SS well
TS-WS316002	50mm (2") 316 SS well
TS-WS316004	100mm (4") 316 SS well
TS-WS316006	150mm (6") 316 SS well
TS-WS316008	200mm (8") 316 SS well

Model Selection

		TS-	I	XX	002
Mounting Style	I = Immersion				
Enclosure	XX = No enclosure PS = Plastic square enclosure PR = Plastic round enclosure MJ = Metal junction box enclosure MW = Metal weatherproof enclosure				
Probe Length	002 = 2" 004 = 4" 006 = 6" 008 = 8"				

Product Specifications

Environmental

Operating temperature	-20°C to 105°C; -4°F to 221°F
Storage temperature	-20°C to 105°C; -4°F to 221°F
Ambient humidity	0 to 95% Non-condensing

Fitting (TS-IXX Series)

Color	Black
Process Thread	1/2" NPT
Shipping weight	0.20 lbs (0.091 kg)
Wire Length	1.52 m (5')
Wire Material	PVC insulated, parallel bonded
Probe Material	304 Series Stainless Steel
Probe Dimensions	0.250" (6.35 mm) Diameter

Enclosure

Material:

<input type="checkbox"/> TS-IPS Series	Grey ABS; Type UL94-5VB; IP61/NEMA2
<input type="checkbox"/> TS-IPR Series	Grey ABS; Type UL94-5VB; IP65/NEMA4X
<input type="checkbox"/> TS-IMJ Series	Galvanized Steel; IP50/NEMA1
<input type="checkbox"/> TS-IMW Series	Grey Painted Aluminum; IP64/NEMA 3X

Shipping Weight:

<input type="checkbox"/> TS-IPS Series	0.60lbs (0.2727kg)
<input type="checkbox"/> TS-IPR Series	0.60lbs (0.2727kg)
<input type="checkbox"/> TS-IMJ Series	1.00lbs (0.4550kg)
<input type="checkbox"/> TS-IMW Series	1.20lbs (0.5455kg)

Electrical

Dissipation Factor	2.2 mW/K (Thermistor)
Max Power @ 25°C (77°F)	75 mW (Thermistor)
Thermal Time Constant:	Less than 10 s (Thermistor)

Temperature Sensor

Type ¹	10kΩ NTC thermistor, Type 2
Accuracy	±0.2°C; ±0.36°F

Agency Approvals²

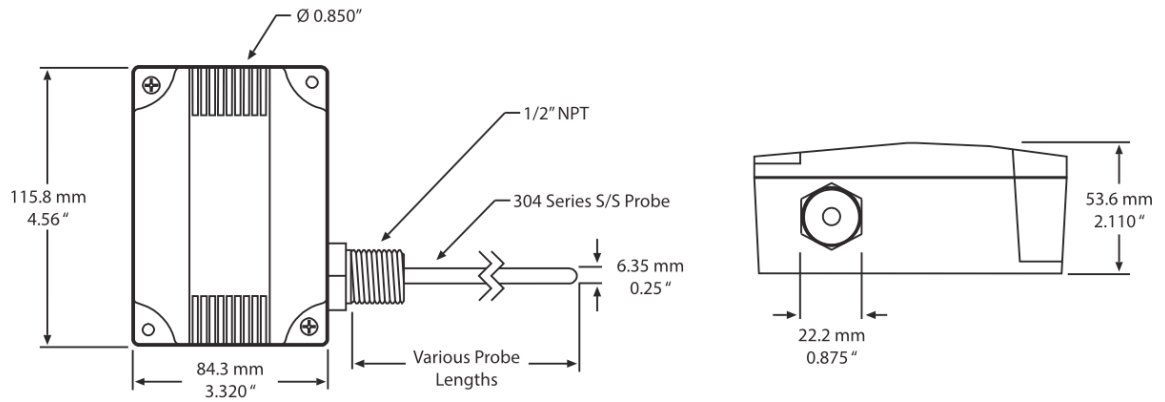
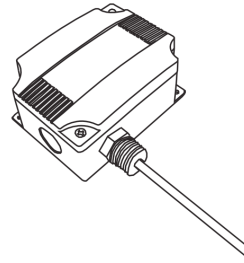
Material	UL94-5VB
Material (TS-IXX Series)	UL94-HB

1. Temperature sensor type stated is standard. Other temperature sensor types are available.

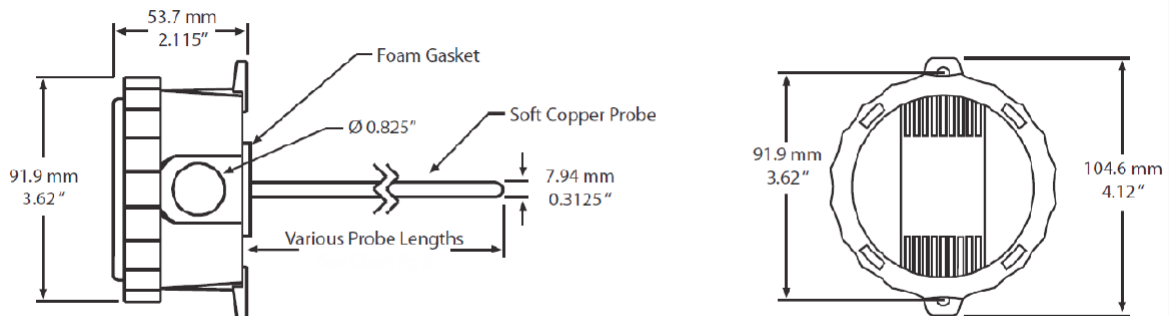
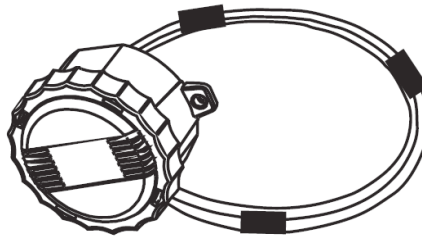
2. All materials and manufacturing processes comply with the RoHS directive.

Dimensions

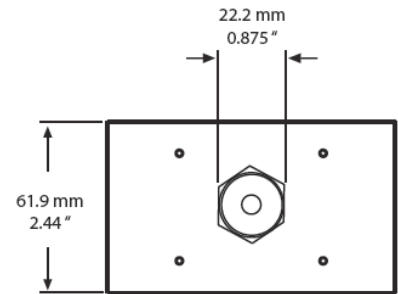
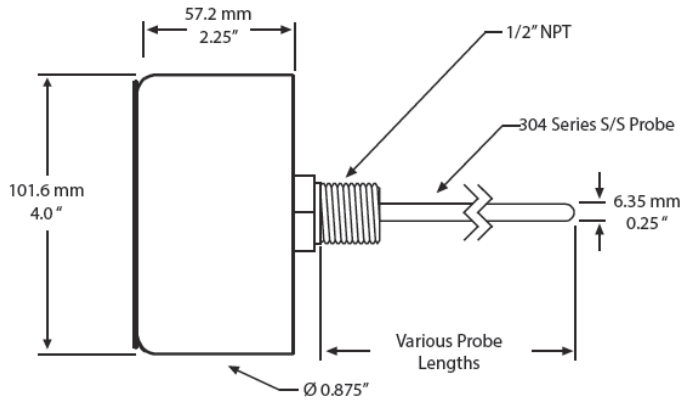
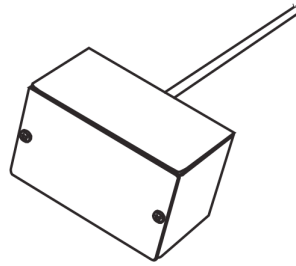
ABS Enclosure



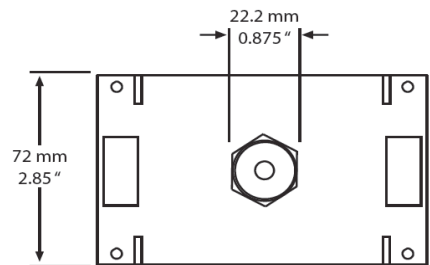
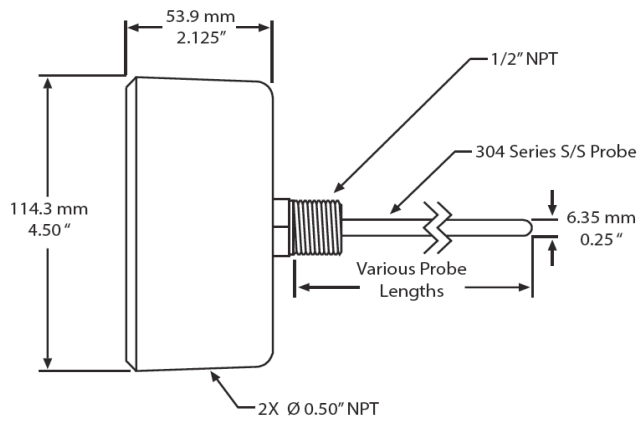
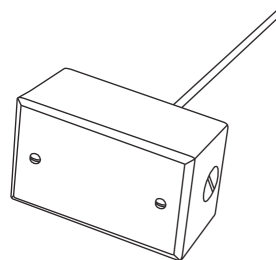
Round ABS Enclosure



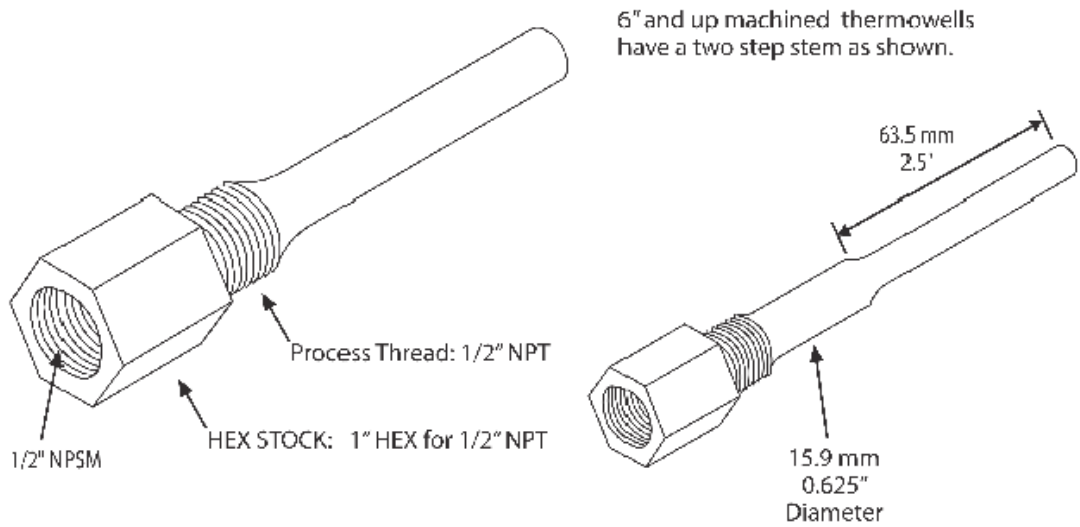
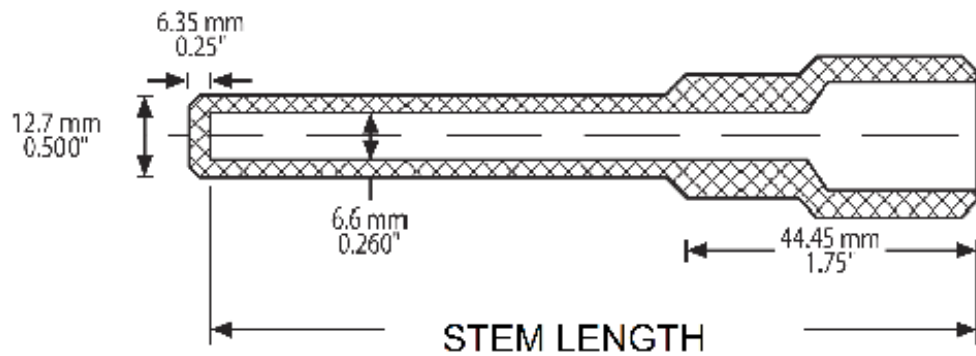
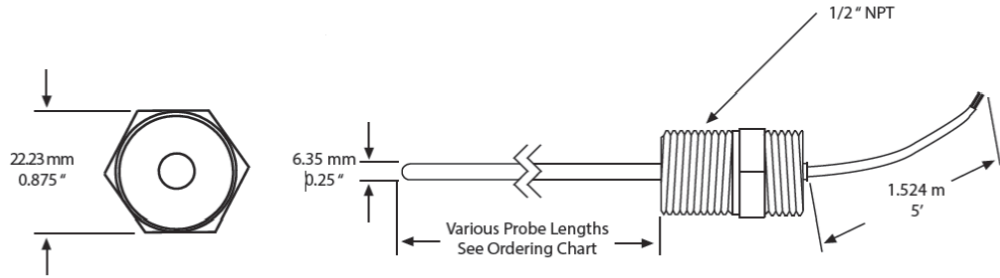
Metal Enclosure



Weatherproof Enclosure



Sensor without Enclosure



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