TEMPERATURE

SÜBMERSIBLE THERMISTOR AND RTD SENSORS ST-TS* SERIES



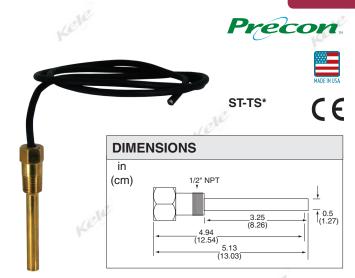
DESCRIPTION

The Precon ST-TS* Series Tank Thermistor and RTD Sensors provide precision remote temperature sensing for cooling tower tanks for use in building automation systems. The active sensing element is a highly stable precision thermistor material or platinum RTD.

The sensing element is rugged and sealed in a thermally conductive compound. The housing is a standard brass immersion well that has the weight to keep the sensor submersed and is compatable for all liquids suitable with brass. Water resistant cable is used.

FEATURES

- Lifetime warranty
- · Wide selection of thermistor and RTD curves
- Brass thermowell for quick temperature response
- Water resistant cable
- Ultra high accuracy optional
- One piece design



SPECIFICATIONS

 Type 63
 1000Ω Nickel

 Type 71, 81
 100Ω Pt 385 Curve

 Type 85
 1000Ω Pt 385 Curve

 Type 91
 1000Ω Pt 375 Curve

Temperature Range Thermistor/RTD

-40° to 221°F (-40° to 105°C)

Temperature Coefficient

Thermistor RTD

Temperature Stability
Thermistor

Heat Dissipation

Mounting

Wiring Terminations

Approvals Weight Warranty Negative temperature coefficient Positive temperature coefficient

0.24°F (0.13°C) over five years <0.09°F (0.05°C) over 5 years 2.7 mW/°C (power needed to raise the temperature by 1°C)

Lower sensor into cooling tower tank, support cable at wiring box, use water proof connectors

8' (2.44m) 2 conductor for SJO 18/2 water resistant cable

CE

0.8 lb (0.36 kg) Lifetime

ORDERING INFORMATION

MODEL	DESCRIPTION		
ST-TS3	10,000Ω tank sensor thermistor @ 77°F (26°C), Type III (gray leads)		
ST-TS21	2252Ω tank sensor thermistor @ 77°F (26°C), Type II (green leads)		
ST-TS22	3000Ω tank sensor thermistor @ 77°F (26°C), Type II (blue leads)		
ST-TS24	10,000Ω tank sensor thermistor @ 77°F (26°C), Type II (yellow leads)		
ST-TS27	100,000Ω tank sensor thermistor @ 77°F (26°C), Type II (gray leads)		
ST-TS42	20,000Ω tank sensor thermistor @ 77°F (26°C), Type IV (green leads)		
ST-TS63	1000Ω nickel tank sensor RTD @ 70°F (21°C) (yellow leads)		
ST-TS71	100Ω tank sensor RTD @ 32°F (0°C) (blue leads)		
ST-TS81	100Ω tank sensor RTD @ 32°F (0°C) (yellow leads)		
ST-TS85	1000Ω tank sensor RTD @32°F (0°C) (blue leads)		
ST-TS91	1000Ω tank sensor RTD @ 32°F (0°C) (green leads)		
	OPTIONS		
	XC25 25' (7.6m) lead length cable		
	Dual sensors		
	N1 NIST Certificate, one reference point 32	2°F (0°C)	
	N2 NIST Certificate, two reference point 32	2°F (0°C)	
	NIST Certificate, three reference point	32°F (0°C)	
	P Matched pair		
XPA Ultra high accuracy, thermistors only, ±0.135°F (0.075°C)			
	Stainless steel thermowell	<u> </u>	

point certificate

T85U-XR T81U-XR T81U-XR T91U-XR T91U-XR UR RELATED PRODUCTS 1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable 1000 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable 1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable Moisture-resistant three-wire butt splice	PAGE 1279 1281 1277 229
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ST-TS3 - XN1 Example: ST-TS3-XN1 10,000Ω tank sensor thermistor with NIST one reference

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