TEMPERATURE

IMMERSION THERMISTOR AND RTD SENSORS



TEMPERATURE

DESCRIPTION

The **PreCon Model ST-W* Immersion Thermistor and RTD Sensor** provides precision remote temperature sensing for building automation systems and mechanical equipment room instrumentation. The active sensing element is a highly stable precision thermistor material or platinum RTD.

The sensing element is sealed with a temperature conductive compound in a 4-7/8" (12.4 cm) stainless steel tube and brass fitting. A brass thermowell is the standard well provided with each sensor. A Greenfield connector is factory installed for flexible connection. The sensor probe assembly is removable from the thermowell for replacement without draining the system.

FEATURES

- · Lifetime warranty
- ±0.36°F (±0.2°C) thermistor accuracy
- ±1°F (0.53°C) RTD accuracy
- Wide selection of thermistor and RTD curves
- Brass thermowell for quick temperature response
- Adaptable with many options
- · Easy to mount and remove from thermowell
- Waterproof stainless steel probe

APPLICATION

The **Model ST-W**^{*} is a waterproof sensor featuring a 304 stainless steel probe and brass fitting. The fitting has a 1/2" NPT female threads to accept the standard Greenfield fitting. It has 1/8" NPT male threads for installing into a furnished WEL-B thermowell. The thermowells are designed with close tolerances, eliminating the need for thermal grease under normal conditions. Each well is designed so that the sensor assembly can be easily removed after installation. The well screws into a 1/2" NPT saddle (or Thredolet[®] fitting) furnished by the installing contractor.



ST-W* SERIES

OPTIONS

- 304 stainless steel well, maximum temperature 900°F (482°C),maximum pressure 3000 psig (20,685 kPa)
- Handy-box enclosure
- Custom lengths (wells available)
- 1/2" LB conduit fitting
- Liquid-tight fitting
- Weather resistant box
- Matched pairs used for BTU measurement
- NIST Traceable

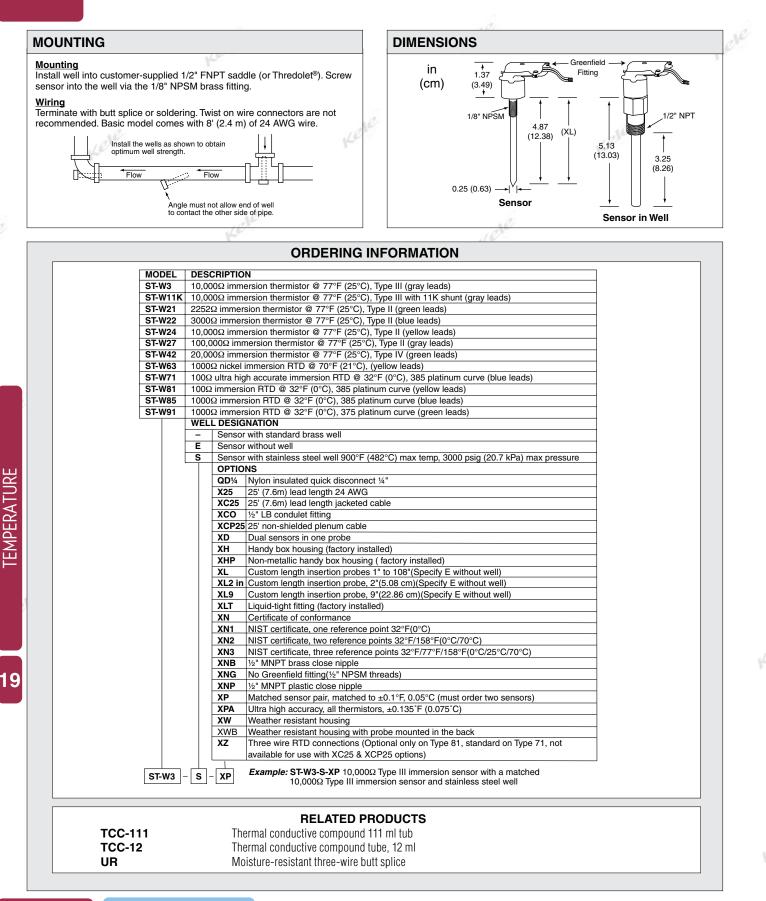
SPECIFICATIONS			
Accuracy	le.	Temperature Stability	1
Thermistor	±0.36°F (0.2°C)	Thermistor	0.24°F (0.13°C) over five years
RTD		RTD	Max 0.04% after 1k hours @ 500°C
Туре 63	±0.72°F (0.40°C)	Heat Dissipation	2.7 mW/°C (power needed to raise
Type 71	+/-0.0774°F (0.043°C)		the temperature by 1°C)
Type 81,85	±0.27°F (0.15°C)	Enclosure Rating	Depends on model
Type 91	±0.54°F (0.30°C)	Mounting	Directly to pipe in supplied brass
Sensor Type		_	well, no adapters needed for
Thermistor	2.252k Ω, 3 kΩ, 10 kΩ Type II, III &		standard boxes, customer-supplied
	III w/11K shunt, 20 k Ω , 100 k Ω		1/2" Thredolet® required in pipe
RTD		Wiring Terminations	8' (2.44 m) of 24 AWG pigtails with
Туре 63	1000Ω Nickel	-	prestripped ends, type 71 & 81 have
Type 71,81	100Ω Pt 385 Curve		18" leads
Type 85	1000Ω Pt 385 Curve	Weight	0.65 lb (0.3 Kg) w/o well
Type 91	1000Ω Pt 375 Curve	Approvals	CE
Temperature Range	9	Warranty	Lifetime
Thermistor/RTD	-40° to 221°F (-40° to 105°C)		ale
Temperature Coefficient		4	
Thermistor	Negative temperature coefficient		
RTD	Positive temperature coefficient		

IN-STOCK ORDERS AVAILABLE TO SHIP SAME-DAY

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877-826-9037 USA

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