TEMPERATURE

RING LUG THERMISTOR AND RTD SENSOR

ST-L* SERIES



DESCRIPTION

The Precon ST-L* Series Thermistor and RTD Ring Lug Sensors provide precision equipment temperature sensing for building automation systems. The active sensing element is made of a highly stable, precision thermistor material or platinum RTD.

The ring lug design allows the sensor to be mounted to a bolt or stud to monitor equipment temperature. A common use is to monitor motor winding temperature by mounting to the motor housing. It comes in sizes to accommodate 1/4", 5/16" and 3/8" studs or bolts.

FEATURES

- · Lifetime warranty
- · Wide selection of thermistor and RTD curves
- · Ring lug mounting for equipment monitoring
- Three stud sizes available
- · Ultra high accuracy optional



SPECIFICATIONS			
Accuracy	(ele	Temperature Coefficient	
Thermistor	±0.36°F (0.2°C)	Thermistor	Negative temperature coefficient
RTD		RTD	Positive temperature coefficient
Type 63	±0.72°F (0.40°C)	Temperature Stability	
Type 71	+/-0.0774°F (0.043°C)	Thermistor	0.24°F (0.13°C) over five years
Type 81, 85	±0.27°F (0.15°C)	RTD	Max 0.04% after 1k hours @ 500 °C
Type 91	±0.54°F (0.30°C)	Heat Dissipation	2.7 mW/°C (power needed to raise
Sensor Type		-	the temperature by 1°C)
Thermistor	2.252 kΩ, 3 kΩ, 10 kΩ Type II, III & III	Mounting	Directly to stud or bolt
	w/11K shunt, 20 kΩ, 100 kΩ	Wiring Terminations	24 AWG, UL low voltage to 105°C
RTD			Connections 8' (2.4m) of 24 AWG
Type 63	1000Ω Nickel		prestripped pigtails, type 71 & 81
Type 71, 81	100Ω Pt 385 Curve		sensors have 18" leads
Type 85	1000Ω Pt 385 Curve	Weight	0.1 lb (0.05 Kg) w/o options w/o
Type 91	1000Ω Pt 375 Curve		options
Temperature Range		Approvals	CE
Thermistor/RTD	-40° to 221°F (-40° to 105°C)	Warranty	Lifetime
	0,	.0	

"

TEMPERATURE

RING LUG THERMISTOR AND RTD SENSORS ST-L* SERIES

ORDERING INFORMATION

		I			
MODE		DESCRIPTION			
ST-L3		10,000Ω lug thermistor @ 77°F (25°C), Type III (gray leads)			
ST-L1			10,000Ω lug thermistor @ 77°F (25°C), Type III with 11K shunt (gray leads)		
ST-L2			252Ω lug thermistor @ 77°F (25°C), Type II (green leads)		
ST-L2				mistor @ 77°F (25°C), Type II (blue leads)	
ST-L2		10,00	0,000Ω lug thermistor @ 77°F (25°C), Type II (yellow leads)		
ST-L2	7		,000Ω lug thermistor @ 77°F (25°C), Type II (gray leads)		
ST-L4	2	20,00	20,000Ω lug thermistor @ 77°F (25°C), Type IV (green leads)		
ST-L6		10000	000Ω nickel lug RTD @ 32°F (0°C) (yellow leads)		
ST-L7	1	100Ω	00Ω lug RTD @ 32°F (0°C) 385 Platinum Curve (blue leads)		
ST-L8	1	100Ω	100Ω lug RTD @ 32°F (0°C) 385 Platinum Curve (yellow leads)		
ST-L8	5		1000Ω lug RTD @32°F (0°C) 385 Platinum Curve (blue leads)		
ST-L9	1	10000	Ω lug RTD @ 32°F (0°C) 375 Platinum Curve (green leads)		
		OPTIONS			
		25 1/4" Stud Size		d Size	
		31	5/16" St	Stud size	
		38	3/8" Stu	ıd size	
			XN1	NIST certificate, one reference point 32°F(0°C)	
			QD¼	Nylon insulated quick disconnect ¼"	
X25			25' (7.6m) lead length 24 AWG		
			XC25	25' (7.6m) lead length 24 AWG jacketed cable	
			XCP25	25' (7.6m) non-shielded 22AWG plenum cable	
			XN	Certificate of conformance	
			XN1	NIST certificate, one reference point 32°F(0°C)	
			XN2	NIST certificate, two reference points 32°F/158°F(0°C/70°C)	
XN3		XN3	NIST certificate, three reference points 32°F/77°F/158°F(0°C/25°C/70°C)		
ST-L3 — 25 — XN1 Example: ST-L3-25-XN1 10,000Ω mini probe sensor with NIST one reference point certificate					

RELATED PRODUCTS				
T85U-XR	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable			
T81U-XR	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable			
T91U-XR	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable			

877-826-9037 USA