

DESCRIPTION

The Precon ST-S*E and ST-S*EW Series Executive Room Sensors provide precision room temperature sensing for building automation systems. The active sensing element is made of a highly stable, precision thermistor material or platinum RTD.

FEATURES

- · Lifetime warranty
- ±0.36°F (±0.2°C) thermistor accuracy
- ±0.27°F (±0.15°C) or ±0.54°F (±0.30°C) RTD accuracy
- · Ultra high accuracy optional
- Wide selection of thermistor and RTD curves
- · Vented housing for quick temperature response
- · Adaptable with many options
- · Traditional beige or white covers
- · Durable plastic housing and base plate
- · Easy to mount to wall or electrical box



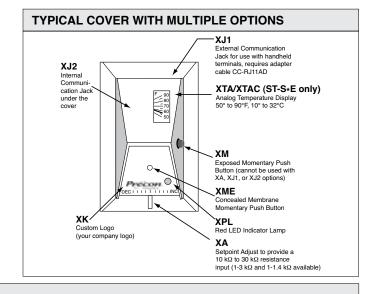




ST-S*EW

TYPICAL MOUNTING Toggle bolts or other direct wall-mount screws can be used where conduit is not required. Adapters are not required when mounting directly to electrical Basic model comes with screw terminal block, white decorator faceplate, two #6-32 screws for handybox mounting, and two #6 x 1" screws for direct wall mounting. Cover screws are #6-32 with a 1/16" allen key head.

The sensor should be mounted approximately 5' (12.7 cm) above the floor, on an interior wall, away from any heating or cooling generating devices



SPECIFICATIONS

Accuracy ±0.36°F (0.2°C) **Thermistor RTD** Type 63 ±0.72°F (0.40°C) ±0.054°F (0.03°C) Type 71 Type 81, 85 ±0.27°F (0.15°C) Type 91 ±0.54°F (0.30°C)

Sensor types available

Thermistor $2.252 \text{ k}\Omega, 3 \text{ k}\Omega, 10 \text{ k}\Omega, 20 \text{ k}\Omega, 100 \text{ k}\Omega$

RTD

1000Ω Nickel Type 63 Type 71, 81 100Ω Pt 385 Curve Type 85 1000Ω Pt 385 Curve Type 91 1000Ω Pt 375 Curve

Temperature range

Thermistor 10° to 230°F (-12° to 110°C)

Type 63 -76° to 392°F (-60°C to 200°C)

Type 71 -58° to 572°F (-50°C to 300°C) -67° to 240°F (-55°C to 115°C) Type 81, 85, 91 Temperature response

Thermistor Negative temperature coefficient RTD Positive temperature coefficient

Stability **Thermistor** 0.24°F (0.13°C) over five years RTD <0.09°F (0.05°C) over five years **Heat dissipation** 2.7 mW/°C (power needed to

raise the temperature by 1°C) Connections Terminals Directly to wall or customer-Mounting supplied back box, no adapters

needed for standard boxes

Enclosure ST-S*E Beige plastic with tan metal face

plate ST-S*EW White plastic with white metal face

Lifetime

plate 0.2 lb (0.09 kg) Weight

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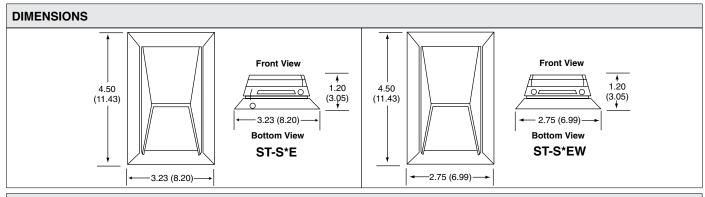
Warranty

TEMPERATURE

EXECUTIVE ROOM THERMISTOR AND RTD SENSORS



ST-S*E, ST-S*EW SERIES



ORDERING INFORMATION

MODEL	DESCRIPTION		
ST-S3	10,000Ω executive thermistor @ 77°F (25°C), Type III (gray leads)		
ST-S21	2252Ω executive thermistor @ 77°F (25°C), Type II (green leads)		
ST-S22	3000Ω executive thermistor @ 77°F (25°C), Type II (blue leads)		
ST-S24	10,000Ω executive thermistor @ 77°F (25°C), Type II (yellow leads)		
ST-S27	100,000Ω executive thermistor @ 77°F (25°C), Type II (gray leads)		
ST-S42	20,000Ω executive thermistor @ 77°F (25°C), Type IV (green leads)		
ST-S63	1000Ω nickel executive RTD @ 70°F (21°C), (yellow leads)		
ST-S71	100Ω ultra high accurate executive RTD @ 32°F (0°C), 385 platinum curve (blue leads)		
ST-S81	100Ω executive RTD @ 32°F (0°C), 385 platinum curve (yellow leads)		
ST-S85	1000Ω executive RTD @ 32°F (0°C), 385 platinum curve (blue leads)		
ST-S91	1000Ω executive RTD @ 32°F (0°C), 375 platinum curve (green leads)		
	E Executive beige enclosure with wide back plate		
	EW	Executive	white enclosure with narrow back plate
		OPTIONS	(List options in alphabetical order with dashes)
		R	Rugged moistureproof coating 3.5"
		R#	Rugged moistureproof coating. # equals number of feet of the coating
		XA *	Setpoint adjustment (10,000 Ω to 30,000 Ω , resistance input)
		XA10K *	Setpoint adjustment (1,000 Ω to 3,000 Ω , resistance input)
		XA2K *	Setpoint adjustment (1,000 Ω to 1,400 Ω , resistance input)
		XD	Dual sensors
		XGR	Gray decorator faceplate (tan is standard)
		XJ1 *	RJ11 externally-accessible communication jack (CCRJ11AD required)
		XJ2 *	Internal RJ11 communication jack
		XK	Custom Logo
		XM **	Momentary switch wired N.O. to terminal block
		XME	Membrane momentary switch wired only N.O. to terminal block, tan faceplate only
		XMP	Membrane push button switch (XME) with terminals for separate button termination
		XN	NIST 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	NIST certificate, three reference points 32°F/77°F/158°F (0°C/25°C/70°C)
		XP	Matched sensor pair, matched to ±0.1°F, 0.05°C (must order two sensors)
		XPA	Ultra high accuracy, thermistors only, ±0.135°F (0.075°C)
		XPL *	Red LED lamp externally powered 24VAC/VDC
		XTA 🔺	Analog temperature display , 50 to 90°F ± 1°F
		XTAC A	Centigrade analog temperature display 10 to 32°C ± 1°C
		XZ 🔺	Three wire RTD connections (Optional only on Type 81, standard on Type 71)
ST-S3	- E -	XA - X	TA Example: ST-S3-E-XA-XTA 10,000Ω Type III executive sensor zone with setpoint adjustment and analog display
	*	Circuit bo	ard option ** Cannot be mounted in conjunction with *options ▲ Not available on EW housing

RELATED PRODUCTS

CC-RJ11AD Adapter cable for XJ1 option with female RJ11 8-pin connector 79-1 Replacement battery for XTD and XTC option KT1 Mounting screwdriver 1/16" Allen key Wall adaptor plate 7" x 5.25" (for ST-S*EW)