

# WHITE EXECUTIVE THERMISTOR SENSOR MODEL ST-S EW

**Precon**  
A Kele Company

## DESCRIPTION

The PreCon **Model ST-S $\diamond$ EW White Executive Thermistor Sensor** provides precision room temperature sensing for building automation systems. The active sensing element is made of a highly stable, precision thermistor material accurate to within  $\pm 0.36^{\circ}\text{F}$  ( $0.2^{\circ}\text{C}$ ).

## FEATURES

- **New white cover**
- **Five-year warranty**
- **$\pm 0.36^{\circ}\text{F}$  ( $0.2^{\circ}\text{C}$ ) accuracy**
- **Wide selection of thermistor curves**
- **Vented housing for quick temperature response**

## APPLICATION

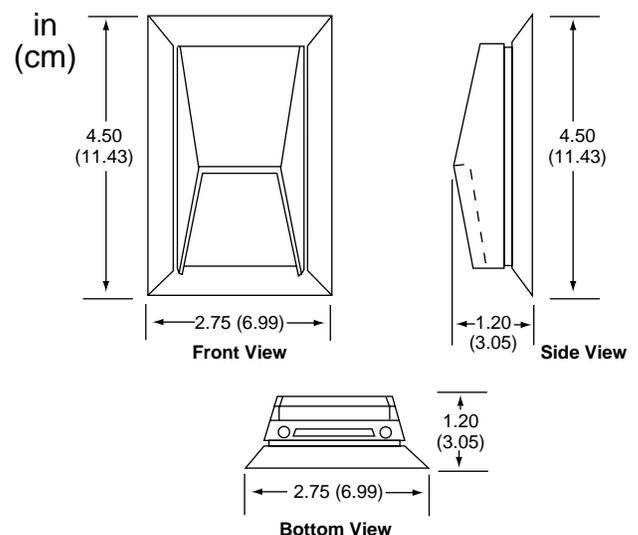
The white executive decorator enclosure is wall-mounted indoors where appearance is important. The separate base plate may be mounted directly to the drywall or on a standard electrical outlet box without adapters. The cover is secured with tamper-resistant hex screws.

## OPTIONS

- **Custom logos**
- **Moistureproof with 8' (2.44m) lead**
- **Membrane momentary switch**
- **Terminals**
- **NIST traceable**



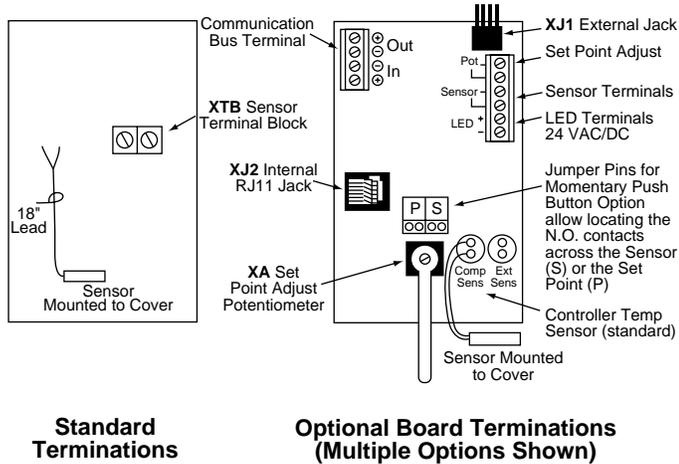
## DIMENSIONS



## SPECIFICATIONS

<b>Sensing element</b>	Thermistor (thermal resistor)	<b>Stability</b>	0.24°F (0.13°C) over five years
<b>Accuracy</b>	$\pm 0.36^{\circ}\text{F}$ ( $0.2^{\circ}\text{C}$ ) (NIST traceable is optional)	<b>Heat dissipation constant</b>	2.7 mW/°C (power needed to raise the temperature by 1°C)
<b>Sensor types available</b>	2.252K, 3K, 10K, 20K, 100K (ref. in ohms @ 77°F/25°C)	<b>Connection</b>	18" pigtails <b>XTB</b> option for terminals
<b>Temp range</b>	35° to 140°F (2° to 60°C)	<b>Mounting</b>	Directly to wall or customer-supplied back box, no adapters needed for standard boxes
<b>Temp response</b>	Negative temperature coefficient	<b>Color</b>	White plastic with white metal faceplate
<b>Sensitivity</b>	See <i>Sensor Resistance Charts</i> in the Technical Reference section		

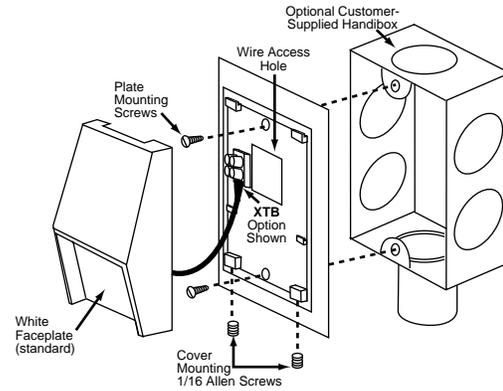
## WIRING



## 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 outlet boxes.

Basic model comes with screw terminal block, white decorator faceplate, two #6-32 screws for handibox-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.

## ORDERING INFORMATION

MODEL	DESCRIPTION
ST-S3EW	10,000Ω Executive Thermistor @ 77°F (25°C), Type III Material (gray leads)
ST-S21EW	2252Ω Executive Thermistor @ 77°F (25°C), Type II Material (green leads)
ST-S22EW	3000Ω Executive Thermistor @ 77°F (25°C), Type II Material (blue leads)
ST-S24EW	10,000Ω Executive Thermistor @ 77°F (25°C), Type II Material (yellow leads)
ST-S27EW	100,000Ω Executive Thermistor @ 77°F (25°C), Type II Material (gray leads)
ST-S42EW	20,000Ω Executive Thermistor @ 77°F (25°C), Type IV Material (green leads)
<b>OPTIONS</b> (See page 45 for option details)	
XA*	Set point adjustment (10 kΩ to 30 kΩ, resistance input, tan faceplate only)
XA10K*	Set point adjustment (1 kΩ to 3 kΩ, resistance input, tan faceplate only)
XA2K*	Set point adjustment (1kΩ to 1.4 kΩ, resistance input, tan faceplate only)
XB	Moistureproof with 8' (2.44m) lead (no terminal block provided)
XGR	Gray decorator faceplate (option for white faceplate)
XJ1*	External communication jack (related adapter CC-RJ11AD)
XJ2*	Internal RJ11 communications jack
XK	Custom logo
XM**	Momentary switch wired normally open to terminal block (N.C. available)
XME	Membrane momentary switch wired only N.O. to terminal block (tan and white faceplate only)
XPL*	Red LED lamp (externally powered 24 VAC/DC)
XN1	NIST traceable for one-point certification 32°F (0°C)
XN2	NIST traceable for two-point certification 32°/160°F (0°/77°C)
XTB	Terminal block
XTN	Tan decorator faceplate

ST-S3EW

XN1

**Example:** ST-S3EW-XN1 10,000Ω Type III executive sensor with NIST certificate

\* Circuit board option    \*\* Cannot be mounted in conjunction with \* options

### Related Products

KT1

Mounting screwdriver 1/16 Allen key

CC-RJ11AD

XJ1 Adapter