

# HAZARDOUS LOCATIONS

## PRECON EXPLOSION PROOF ROOM TEMPERATURE SENSOR ST-X SERIES



Precon™



### DESCRIPTION

The **Precon Model ST-X explosion proof room temperature sensor** provides accurate space temperature sensing in a compact, unobtrusive housing suitable for wall mounting. The all aluminum NEMA 7 / NEMA 9 enclosure minimizes time lag and allows installation in most atmospheres containing flammable gases or dusts (Groups C, D, E, F, G).

### FEATURES

- *Class I, Division 1, Group C, D; Class II, Division 1, Groups E, F, G*
- *NEMA 7CD, 9EFG*
- *RTD or thermistor styles available*
- *E-Z mount (1/2" NPT and 3/4" NPT conduit entries top and bottom)*
- *Compact, unobtrusive package*



ST-X

SPECIFICATIONS	
<b>Accuracy</b>	
Thermistor	±0.36°F (0.2°C)
Type 63	±0.72°F (0.40°C)
Type 71	±0.054°F (0.03°C)
Type 81 and 85	±0.48°F (0.27°C) @ 32°F (0°C)
Type 91	±0.91°F (0.46°C) @ 32°F (0°C)
Lead Wires	#24 AWG, 8'L (2.4m)
<b>Materials of Construction</b>	
Steel	
<b>Sensor Type</b>	
Thermistor, Platinum thin film RTD	
<b>Temperature Range</b>	
-30° to 240°F (-34° to 115°C)	
<b>Dimensions</b>	
5.75"H x 1.63"W x 2.13"D (14.1 x 4.1 x 5.2 cm)	
<b>Weight</b>	
0.75 lb (0.34 Kg)	
<b>Warranty</b>	
1 year	

**CAUTION:** Conduit seal **MUST** be installed within code-required distance from sensor to maintain explosion proof rating.

**WARNING:** This device is not listed for use in areas classified as Group A (acetylene) or Group B (hydrogen and others). Where temperature sensing in these areas is required, an intrinsically safe system using the Model TT211 transmitter is recommended.

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### ORDERING INFORMATION

MODEL	DESCRIPTION
ST-X3	10,000Ω thermistor @ 77°F (25°C), Type III material (gray leads)
ST-X11	10,000Ω thermistor @ 77°F (25°C), Type III within 11K shunt (gray leads)
ST-X21	2252Ω thermistor @ 77°F (25°C), Type II material (green leads)
ST-X22	3000Ω thermistor @ 77°F (25°C), Type II material (blue leads)
ST-X24	10,000Ω thermistor @ 77°F (25°C), Type II material (yellow leads)
ST-X27	100,000Ω thermistor @ 77°F (25°C), Type II material (gray leads)
ST-X42	20,000Ω thermistor @ 77°F (25°C), Type IV material (green leads)
ST-X63	1000Ω nickel RTD @ 70°F (21°C) (yellow leads)
ST-X71	100Ω high accuracy RTD @ 32°F (0°C), 0.00385 Ω/Ω/°C (yellow leads)
ST-X81	100Ω RTD @ 32°F (0°C), 0.00385 Ω/Ω/°C (yellow leads)
ST-X85	1000Ω RTD @ 32°F (0°C), 0.00385 Ω/Ω/°C (blue leads)
ST-X91	1000Ω RTD @ 32°F (0°C), 0.00375 Ω/Ω/°C (green leads)