

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

Accuracy	
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)
Materials of Construction	
Steel	
Sensor Type	
Thermistor, Platinum thin film RTD	
Temperature Range	
-30° to 240°F (-34° to 115°C)	
Dimensions	
5.75"H x 1.63"W x 2.13"D (14.1 x 4.1 x 5.2 cm)	
Weight	
0.75 lb (0.34 Kg)	
Warranty	
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)