

# HAZARDOUS LOCATIONS

## EXPLOSIONPROOF ROOM TEMPERATURE SENSOR

MODEL ST-X\*



### DESCRIPTION

The **Model ST-X\* Explosionproof 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).

**Precon**  
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### FEATURES

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

SPECIFICATIONS			
<b>Temp range</b>	-30° to 240°F (-34° to 115°C)	<b>Dimensions</b>	5.75"H x 1.63"W x 2.13"D (14.3 x 16.2 x 11.4 cm)
<b>Material</b>	Copper-free aluminum enclosure	<b>Leads</b>	#24 AWG, 8'L (2.4m)
<b>Weight</b>	1.9 lb (0.9 kg)	<b>Warranty</b>	18 months
Model	Sensor Type	Accuracy	
ST-X3, 21, 22, 24, 27, 42	Thermistor	±0.36°F (0.2°C)	
ST-X81 and 85	Platinum thin film RTD	±0.48°F (0.27°C) @ 32°F (0°C)	
ST-X91	Platinum thin film RTD	±0.91°F (0.46°C) @ 32°F (0°C)	

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**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.

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

### ORDERING INFORMATION

MODEL	DESCRIPTION
ST-X3	10,000Ω thermistor @ 77°F (25°C), Type III material (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-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)