TEMPERATURE

BUTTON STYLE TEMPERATURE SENSOR ST-B* SERIES

DESCRIPTION

The Precon ST-B* Series Button Style flush-Mount 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. This design provides moisture/vapor resistance and is bonded to either brass, steel or aluminum button style housing easily mountable into any wall. This sensor is intended for interior use only.



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 available
- · Wide selection of thermistor and RTD curves
- · Optional brass, steel, aluminum metal button style housing
- · Small, nearly invisible footprint

DIMENSIONS 0.9 (2.3) (cm) (8.0)wall 0.625 0.50 (1.3) 0.80 0.875 (1.6)Insulating Sensor Wall Housing Housing

-58° to 572°F (-50° to 300°C)

-67° to 240°F (-55° to 115°C)

Negative temperature coefficient

Positive temperature coefficient

SPECIFICATIONS

Accuracy **Thermistor** ±0.36°F (0.2°C) 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) ±0.54°F (0.30°C)

Type 91

Sensor types available

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

RTD

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

Temperature range

RTD

-76° to 392°F (-60° to 200°C) Type 63

Type 71 Type 81, 85, 91 Temperature response **Thermistor** RTD Stability

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

raise the temperature by 1°C) Connections 8' (2.4m) of 24 AWG prestripped pigtails

Mounting Directly to wall **Enclosure** Brass, steel or aluminum 0.2 lb (0.09 kg) Weight Warranty Lifetime

ORDERING INFORMATION

MODEL	DESCRIPTION	
ST-B3	10,000Ω button style thermistor @ 77°F (25°C), Type III (gray leads)	
ST-B21	2252Ω button style thermistor @ 77°F (25°C), Type II (green leads)	
ST-B22	3000Ω button style thermistor @ 77°F (25°C), Type II (blue leads)	
ST-B24	10,000Ω button style thermistor @ 77°F (25°C), Type II (yellow leads)	
ST-B27	100,000Ω button style thermistor @ 77°F (25°C), Type II (gray leads)	
ST-B42	20,000Ω button style thermistor @ 77°F (25°C), Type IV (green leads)	
ST-B63	1000Ω button style nickel RTD @ 70°F (21°C), (yellow leads)	
ST-B71	100Ω ultra high accuracy button style RTD @ 32°F (0°C), 385 platinum curve (blue leads)	
ST-B81	100Ω button style RTD @ 32°F (0°C), 385 platinum curve (yellow leads)	
ST-B85	1000Ω button style RTD @ 32°F (0°C), 385 platinum curve (blue leads)	
ST-B91	1000Ω button style RTD @ 32°F (0°C), 375 platinum curve (green leads)	
	OPTIONS (List options in alphabetical order with dashes)	
	В	Brass housing
	Α	Aluminum housing
	S	Steel housing