# **TEMPERATURE**

## BUTTON STYLE THERMISTOR AND RTD SENSORS

ST-B\* SERIES

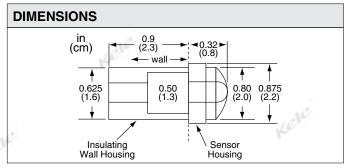
### **DESCRIPTION**

The Precon ST-B\* Series Button Style Flush-Mount
Thermistor and RTD 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 housingeasily 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 buttonstyle housing
- · Small, nearly invisible footprint





Lifetime

#### **SPECIFICATIONS**

Accuracy
Thermistor
RTD
Type 63
Type 71
Type 81, 85
Type 91
Sensor Type

Thermistor 2.252 kΩ, 3 kΩ, 10 kΩ Type II, III & III w/11K shunt, 20 kΩ, 100 kΩ

 Type 63
 1000Ω Nickel

 Type 71, 81
 100Ω Pt 385 Curve

 Type 85
 1000Ω Pt 385 Curve

 Type 91
 1000Ω Pt 375 Curve

Temperature Range
Thermistor/RTD -40° to 221°F (-40° to 105°C)
Temperature Coefficient

Thermistor RTD

Temperature Stability
Thermistor

RTD Heat Dissipation Enclosure Rating

Mounting Wiring Terminations

Weight Approvals Warranty Negative temperature coefficient Positive temperature coefficient

0.24°F (0.13°C) over five years Max 0.04% after 1k hours @ 500 °C 2.7 mW/°C (power needed to raise the temperature by 1°C) NEMA 1, Brass, aluminum,304 Stainless steel housing Directly to the wall 8' (2.4m) of 24 AWG pigtails with prestripped ends, type 71 & 81 have 18" leads 0.2 lb (0.1 Kg) CE

#### **ORDERING INFORMATION**

MODEL	DESCRIPTION
ST-B3	10,000Ω button style thermistor @ 77°F (25°C), Type III (gray leads)
ST-B11K	10,000Ω button style thermistor @ 77°F (25°C), Type III with 11K shunt (gray leads)
ST-B21	2,252Ω button style thermistor @ 77°F (25°C), Type II (green leads)
ST-B22	3,000Ω 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	1,000Ω button style nickel RTD @ 32°F (0°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	1,000Ω button style RTD @ 32°F (0°C), 385 platinum curve (blue leads)
ST-B91	10,00Ω button style RTD @ 32°F (0°C), 375 platinum curve (green leads)
	OPTIONS
	B Brass housing
	A Aluminum housing
	S Steel housing

	RELATED PRODUCTS
T81U-XR	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
T85U-XR	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
T91U-XR	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable
TB-A	Aluminum button enclosure only
TB-B	Brass button enclosure only
TB-S	Stainless Steel button enclosure only

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