

TEMPERATURE

BUTTON STYLE TEMPERATURE SENSOR

KTB* SERIES



DESCRIPTION

The Precon **KTB* Series Button Style flush-Mount Sensors** provide room temperature sensing for building automation systems. The active sensing element is made of a highly stable, 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.

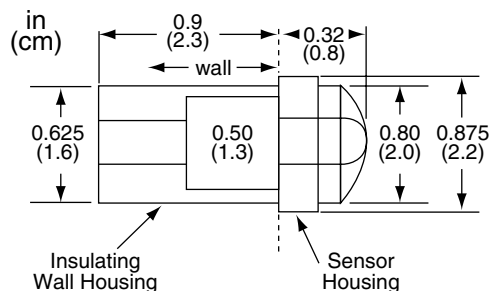
FEATURES

- **Three-year warranty**
- **$\pm 0.50^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$) thermistor accuracy**
- **$\pm 0.60^{\circ}\text{F}$ ($\pm 0.33^{\circ}\text{C}$) 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**



KTB*

DIMENSIONS



TEMPERATURE

SPECIFICATIONS

Accuracy

Thermistor	$\pm 0.50^{\circ}\text{F}$ ($\pm 0.28^{\circ}\text{C}$)
RTD	$\pm 0.60^{\circ}\text{F}$ ($\pm 0.33^{\circ}\text{C}$)

Sensor types

Thermistor @ 77°F	2.252 k Ω , 3 k Ω , 10 k Ω , 20 k Ω , 100k Ω
RTD @ 32°F	Platinum 100 Ω , 1000 Ω , 385 curve Platinum 1000 Ω , 375 curve

Temperature range

Thermistor	-30° to 230°F (-34° to 110°C)
RTD	-68° to 240°F (-55° to 115°C)

Temperature response

Thermistor	Negative temperature coefficient
RTD	Positive temperature coefficient

Stability

Thermistor	0.24°F (0.13°C) over five years
RTD	<0.09°F (0.05°C) over five years

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

Weight

0.2 lb (0.09 kg)

Warranty

3 year

ORDERING INFORMATION

MODEL	DESCRIPTION
KTB3	10,000 Ω button style thermistor @ 77°F (25°C), Type III (gray leads)
KTB21	2252 Ω button style thermistor @ 77°F (25°C), Type II (green leads)
KTB22	3000 Ω button style thermistor @ 77°F (25°C), Type II (blue leads)
KTB24	10,000 Ω button style thermistor @ 77°F (25°C), Type II (yellow leads)
KTB27	100,000 Ω button style thermistor @ 77°F (25°C), Type II (gray leads)
KTB42	20,000 Ω button style thermistor @ 77°F (25°C), Type IV (green leads)
KTB81	100 Ω button style RTD @ 32°F (0°C), 385 platinum curve (yellow leads)
KTB85	1000 Ω button style RTD @ 32°F (0°C), 385 platinum curve (blue leads)
KTB91	1000 Ω button style RTD @ 32°F (0°C), 375 platinum curve (green leads)
OPTIONS (List options in alphabetical order with dashes)	
B	Brass housing
A	Aluminum housing
S	Steel housing