

BUTTON TEMPERATURE SENSOR TSBTA Series

The TSBT is a flush-mount, button style wall sensor that provides precision room temperature sensing for building automation systems. This design is intended for interior use only and is bonded to a plastic paintable housing. The TSBT Series drastically decreases the footprint of the traditional box sensor so that it becomes virtually invisible once painted to match the decor. The TSBT is available with a wide range of thermistors or RTD's.



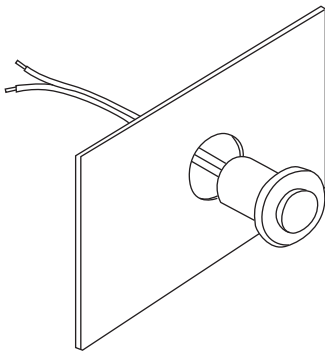
SPECIFICATION:

Sensor Type Various Thermistor or RTD
 Sensor Accuracy..... **Thermistors:** $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) @ 25°C (77°F)
Platinum RTD's: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
Nickel RTD's: $\pm 0.4^{\circ}\text{C}$ ($\pm 0.72^{\circ}\text{F}$) @ 0°C (32°F)
 Temperature Range -40 to 60°C (-40 to 140°F)
 Wire Material **ZW:** PVC insulated, parallel bonded, 22 AWG (FT-4 for 100 Ω Platinum)
FT: Plenum rated FT-6
 Wire Length **ZW:** 1.05m (5')
FT: 3m (10')
 Enclosure White plastic, paintable, interior use only
 IP30 (NEMA 1)
 Termination Pre-stripped pigtails
 Approvals CE
 Country of Origin..... Canada

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The temperature sensor installs directly into any wall. Select a suitable installation area in the wall. Do not place the device where the sensor may be subject to air stratification, vibrations, excessive moisture or rapid temperature changes.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TSBTA	Button Temperature Sensor

CODE	Sensor
02	100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire
05	1801 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
06	3000 Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
07	10,000 Ω , Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
08	2.25K Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω , Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11K shunt resistor
20	20,000 Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
24	10,000 Ω , Type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
59	10,000 Ω @ 25°C , $\pm 1\%$, B = 3435 $\pm 1\%$ (25/85)

CODE	Wire Type/ Length
ZW15	PVC Zip Wire, 22 AWG (Sensor 02 uses FT-4), 1.5m (5')
FT30	Plenum rated FT-6, 22 AWG, 3m (10')

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:

