

PAINTABLE BUTTON STYLE FLUSH MOUNT WALL SENSOR ST-BP* SERIES



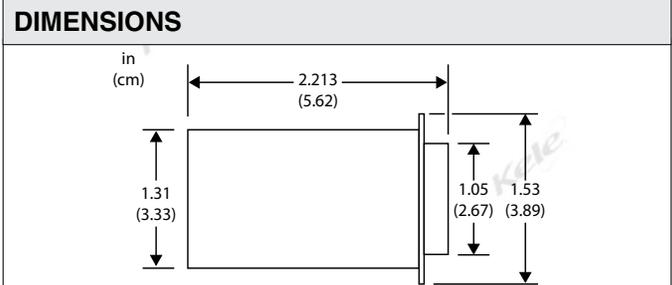
DESCRIPTION

The Precon ST-BP* Series Paintable Button Style Flush-Mount Thermistor and RTD Wall Sensors provide precision room temperature sensing for building automation systems. The ST-BP Series drastically decreases the footprint of the traditional box sensor so that it becomes virtually invisible once it is painted to match the decor. The active sensing element is made of a highly stable, precision thermistor material or platinum RTD. This design is intended for interior use only is bonded to a plastic paintable housing.



FEATURES

- Lifetime sensor warranty
- Paintable housing
- Flush mount
- Installs in drywall
- No back box required
- Virtually undetectable when painted



SPECIFICATIONS	
Accuracy	$\pm 0.36^{\circ}\text{F}$ (0.2°C)
Thermistor	
RTD	
Type 63	$\pm 0.72^{\circ}\text{F}$ (0.40°C)
Type 71	$\pm 0.0774^{\circ}\text{F}$ (0.043°C)
Type 81, 85	$\pm 0.27^{\circ}\text{F}$ (0.15°C)
Type 91	$\pm 0.54^{\circ}\text{F}$ (0.30°C)
Sensor Type	
Thermistor	2.252 k Ω , 3 k Ω , 10 k Ω Type II, III & III w/11K shunt, 20 k Ω , 100 k Ω
RTD	
Type 63	1000 Ω Nickel
Type 71, 81	100 Ω , Pt 385 Curve
Type 85	1000 Ω , Pt 385 Curve
Type 91	1000 Ω , Pt 375 Curve
Temperature Range	
Thermistor/RTD	-40° to 221°F (-40 to 105°C)
Temperature Coefficient	
Thermistor	Negative temperature coefficient
RTD	Positive temperature coefficient
Temperature Stability	
Thermistor	0.24 $^{\circ}\text{F}$ (0.13 $^{\circ}\text{C}$) over five years
RTD	Max 0.04% after 1k hours @ 500 $^{\circ}\text{C}$
Heat Dissipation	2.7 mW/ $^{\circ}\text{C}$ (power needed to raise the temperature by 1 $^{\circ}\text{C}$)
Mounting	Directly to wall
Wiring Terminations	
All Others	8' (2.4m) of 24 AWG prestripped pigtails, Type 71 & 81 sensors have 18" leads
Enclosure Rating	NEMA 1, White plastic
Weight	0.1 lb (0.05 Kg)
Approvals	CE
Warranty	Lifetime

ORDERING INFORMATION

MODEL	DESCRIPTION
ST-BP3	10,000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type III (gray leads)
ST-BP11K	10,000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type III with 11K shunt (gray leads)
ST-BP21	2252 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type II (green leads)
ST-BP22	3000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type II (blue leads)
ST-BP24	10,000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type II (yellow leads)
ST-BP27	100,000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type II (gray leads)
ST-BP42	20,000 Ω paintable flush-mount button style thermistor @ 77 $^{\circ}\text{F}$ (25 $^{\circ}\text{C}$), Type IV (green leads)
ST-BP63	1000 Ω paintable flush-mount button style nickel RTD @ 32 $^{\circ}\text{F}$ (0 $^{\circ}\text{C}$), (yellow leads)
ST-BP71	100 Ω paintable flush-mount ultra high accuracy button style RTD @ 32 $^{\circ}\text{F}$ (0 $^{\circ}\text{C}$), 385 platinum curve (blue leads)
ST-BP81	100 Ω paintable flush-mount button style RTD @ 32 $^{\circ}\text{F}$ (0 $^{\circ}\text{C}$), 385 platinum curve (yellow leads)
ST-BP85	1000 Ω paintable flush-mount button style RTD @ 32 $^{\circ}\text{F}$ (0 $^{\circ}\text{C}$), 385 platinum curve (blue leads)
ST-BP91	1000 Ω paintable flush-mount button style RTD @ 32 $^{\circ}\text{F}$ (0 $^{\circ}\text{C}$), 375 platinum curve (green leads)

RELATED PRODUCTS

T85U-XR	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
T81U-XR	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
T91U-XR	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable