

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



### DESCRIPTION

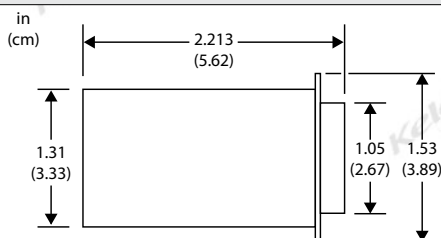
The Precon ST-BP\* Series Paintable Button Style Flush-Mount Thermistor and RTD Wall Sensors provide precision room temperature sensing for building automation systems. The ST-BP Series drastically decreases the footprint of the traditional box sensor so that it becomes virtually invisible once it is 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

### DIMENSIONS



### SPECIFICATIONS

|                          |   |                                |   |
|--------------------------|---|--------------------------------|---|
| <b>Accuracy</b>          |   |                                |   |
| <b>Thermistor</b>        | ±0.36°F (0.2°C)   | <b>Temperature Coefficient</b> | Negative temperature coefficient  |
| <b>RTD</b>               |   | <b>Thermistor</b>              | Positive temperature coefficient  |
| Type 63                  | ±0.72°F (0.40°C)  | <b>Temperature Stability</b>   | 0.24°F (0.13°C) over five years   |
| Type 71                  | ±0.054°F (0.03°C)   | <b>Thermistor</b>              | Max 0.04% after 1k hours @ 500 °C   |
| Type 81, 85              | ±0.27°F (0.15°C)  | <b>RTD</b>                     | 2.7 mW/°C (power needed to raise the temperature by 1°C)                      |
| Type 91                  | ±0.54°F (0.30°C)  | <b>Heat Dissipation</b>        | Directly to wall  |
| <b>Sensor Type</b>       | 2.252 kΩ, 3 kΩ, 10 kΩ Type II, III & III w/11K shunt, 20 kΩ, 100 kΩ | <b>Mounting</b>                |   |
| <b>Thermistor</b>        |   | <b>Wiring Terminations</b>     | 8' (2.4m) of 24 AWG prestripped pigtails, Type 71 & 81 sensors have 18" leads |
| <b>RTD</b>               |   | <b>All Others</b>              | NEMA 1, White plastic   |
| Type 63                  | 1000Ω Nickel  | <b>Enclosure Rating</b>        |   |
| Type 71, 81              | 100Ω, Pt 385 Curve  | <b>Weight</b>                  | 0.1 lb (0.05 Kg)  |
| Type 85                  | 1000Ω, Pt 385 Curve   | <b>Approvals</b>               | CE  |
| Type 91                  | 1000Ω, Pt 375 Curve   | <b>Warranty</b>                | Lifetime  |
| <b>Temperature Range</b> |   |                                |   |
| <b>Thermistor/RTD</b>    | -40° to 221°F (-40 to 105°C)  |                                |   |

### ORDERING INFORMATION

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