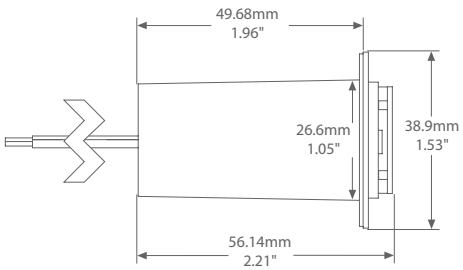
HIGH ACCURACY BUTTON TEMPERATURE SENSOR



HATSBTA SERIES

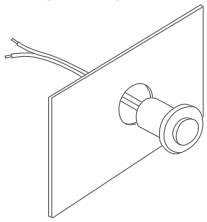
PRODUCT DESCRIPTION

The High Accuracy Paintable Button Style Flush-Mount Thermistor and RTD Wall Sensors provide precision room temperature sensing for building automation systems. The HATSBTA 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.

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.



SPECIFICATIONS

SENSOR TYPE	Various Thermistor or RTD
SENSOR ACCURACY	**RTD Class A:** ±0.15°C (±0.27°F) @ 0°C (32°F) **RTD 1/3 DIN:** ±0.1°C (±0.18°F) @ 0°C (32°F) **RTD 1/10 DIN:** ±0.03°C (±0.054°F) @ 0°C (32°F) **NTC Thermistor Type 39:** ±0.05°C (±0.09°F), 0 to 70°C (32 to 158°F) **NTC Thermistor Type 55:** ±0.03°C (±0.054°F), 0 to 70°C (32 to 158°F) **NTC Thermistor Type 40/46:** ±0.1°C (±0.18°F), 0 to 70°C (32 to 158°F)
TEMPERATURE SENSING RANGE	**RTD:** -20 to 60°C (-4 to 140°F) **Thermistors:** -40 to 60°C (-40 to 140°F)
WIRE MATERIAL	**ZW:** *Thermistor* - PVC insulated, parallel bonded, 22 AWG *RTD* - FT-4, 22 AWG, 3 Wire **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

NOTE: The sensor accuracies listed in the specifications section apply to the sensing element only prior to product assembly and may not be reflected in the complete assembly.

Due to the measurement uncertainty, it is possible, that the true resistance value of the single delivered sensor at 0°C can be out of the defined tolerance class. Profiling each assembly to take into consideration lead wire and the attachment method should be completed.

ORDERING

PRODUCT	**HATSBTA**	High Accuracy Button Temperature Sensor
SENSOR	**18** **48** **22** **39** **55** **50** **46**	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω Type 2, NTC Thermistor, ±0.05°C 10,000 Ω Type 2, NTC Thermistor, ±0.03°C 10,000 Ω Type 3, NTC Thermistor, ±0.1°C 20,000 Ω NTC Thermistor, ±0.1°C
WIRE TYPE & LENGTH	**ZW15** **FT30**	1.5m (5') - Thermistor: PVC Zip Wire, 22 AWG RTD: FT-4, 22 AWG, 3 Wire 3m (10') Plenum rated FT-6, 22 AWG,

PART NUMBER

HATSBTA

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

RoHS COMPLIANT

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