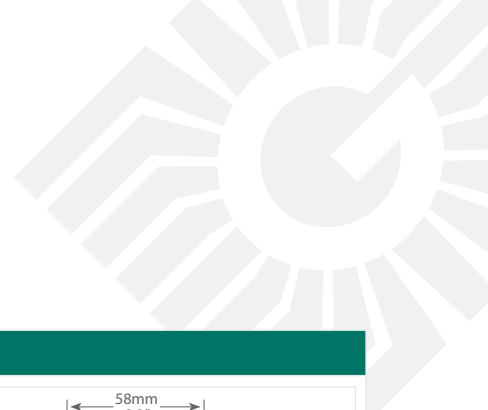
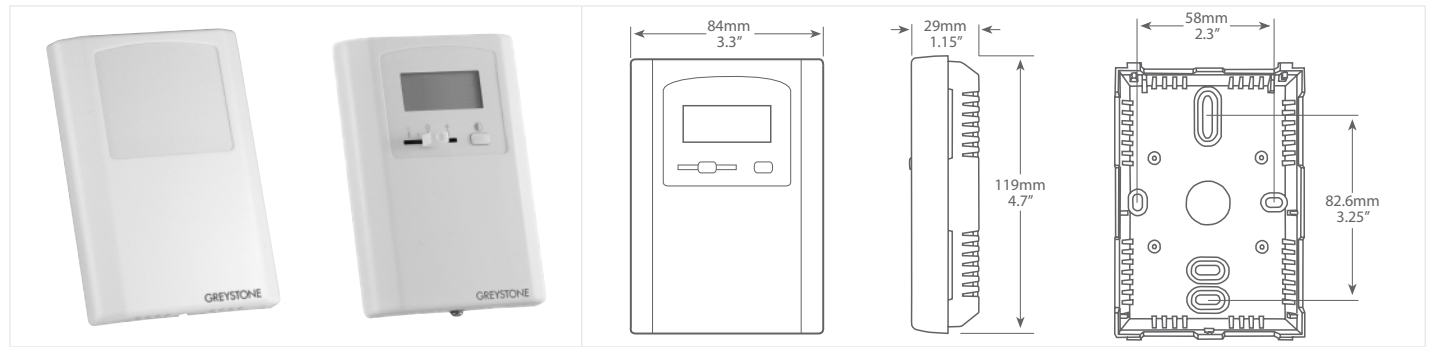




HIGH ACCURACY ROOM TEMPERATURE SENSOR



HATSRC SERIES

PRODUCT DESCRIPTION

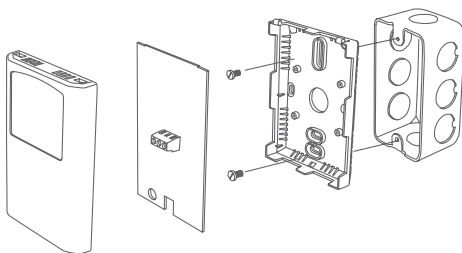
The HATSRC series is an attractive, low profile enclosure that incorporates a high accuracy temperature sensor used to monitor room temperatures. Additional options are available that include setpoint adjustment, manual override, fan speed and LCD.

TYPICAL INSTALLATION

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

The HATSRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulation foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

A terminal block connection is provided for connection to the Building Automation System.

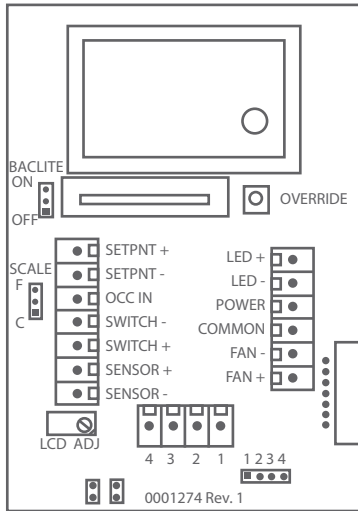


SPECIFICATIONS

SENSOR TYPE	Platinum RTD 1000 Ω , 385 Alpha @ 0°C (32°F) NTC Thermistor, 10K Ω or 20K Ω @ 25°C (77°F)
ACCURACY	RTD Class A: $\pm 0.15^{\circ}\text{C}$ ($\pm 0.27^{\circ}\text{F}$) @ 0°C (32°F) RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$) @ 0°C (32°F) RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ ($\pm 0.054^{\circ}\text{F}$) @ 0°C (32°F) NTC Thermistor Type 39: $\pm 0.05^{\circ}\text{C}$ ($\pm 0.09^{\circ}\text{F}$), 0 to 70°C (32 to 158°F) NTC Thermistor Type 55: $\pm 0.03^{\circ}\text{C}$ ($\pm 0.054^{\circ}\text{F}$), 0 to 70°C (32 to 158°F) NTC Thermistor Type 40/46: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.18^{\circ}\text{F}$), 0 to 70°C (32 to 158°F)
OPERATING CONDITIONS	0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing
ENCLOSURE	White ABS-IP30 (NEMA 1) 84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15")
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
OVERRIDE SWITCH	Type: Front panel, momentary pushbutton, N.O., SPST, 50 mA @ 12 Vdc
FAN SPEED SWITCH	Range: Off, Auto, Low, Medium, High Signal: Resistance - 0, 2, 4, 6 and 8 K Ω standard (custom ranges available)
SETPOINT SLIDE POT	Range: Front panel pot as resistive output, 0-10K Ω standard Custom Spands Available: 1, 2, 5, 10 or 20 K Ω
OCCUPIED INPUT	Signal Type: Digital input, 0/5 Vdc standard, active low Action: Causes "OCC" segment to light on LCD
LED INPUT	Signal Type: Active high, low, or 2-wire, 5V current limit standard LED Colors: Red, Green, or Yellow Power Supply: 5 Vdc standard, 10 Vdc or 24 Vdc optional
LCD DISPLAY	Power Supply: 12 to 24 Vdc / 24 Vdc $\pm 10\%$ (non-isolated half-wave rectified) Consumption @ 24 Vdc: 13 mA max (no backlight) 23 mA max (with backlight) Protection Circuitry: Reverse voltage protected Range: 0.0-35.0°C or 32.0-95.0°F (jumper selectable) Resolution: 0.1°C/°F Display Size: 38.1mm W x 16.5mm H (1.5" x 0.65") Digit Height: 11.43mm (0.45") Symbols: °C, °F, OCC Backlight: Enable or disable via jumper
COUNTRY OF ORIGIN	Canada



WIRING INFORMATION



TERMINAL

PWR	+24 Vdc Power Supply
COM	Common
SETPNT	Resistance Output
OCC IN	Digital Input
FAN +	Resistance Output
FAN -	Common
SWITCH +	Digital Output
SWITCH -	Common
SEN +	Resistance Output
SEN -	Common
LED +	+5 Vdc Power Supply
LED -	Common

FUNCTION

ORDERING

PRODUCT	HATSRC	High Accuracy room temperature sensor
HIGH ACCURACY SENSORS	18	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A
	48	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN
	22	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN
	39	10,000 Ω Type 2, NTC Thermistor, $\pm 0.05^{\circ}\text{C}$
	55	10,000 Ω Type 2, NTC Thermistor, $\pm 0.03^{\circ}\text{C}$
	40	10,000 Ω Type 3, NTC Thermistor, $\pm 0.1^{\circ}\text{C}$
	46	20,000 Ω NTC Thermistor, $\pm 0.1^{\circ}\text{C}$
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE)	P	0 to 10,000 Ω linear slide pot for set point control
	S	Exposed push button momentary switch - N.O.
	C	3-digit LCD temperature indicator $^{\circ}\text{C}/^{\circ}\text{F}$
	F	Fan speed switch (Auto, Off, Low, Mid, High)
	Y	Yellow LED (n/a if AC option selected)
	R	Red LED (n/a if AC option selected)
	G	Green LED (n/a if AC option selected)
	E	External jack for remote system access (4-pin header)

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

PART NUMBER

HATSRC