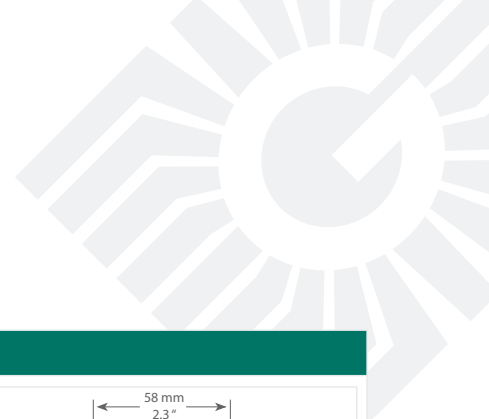
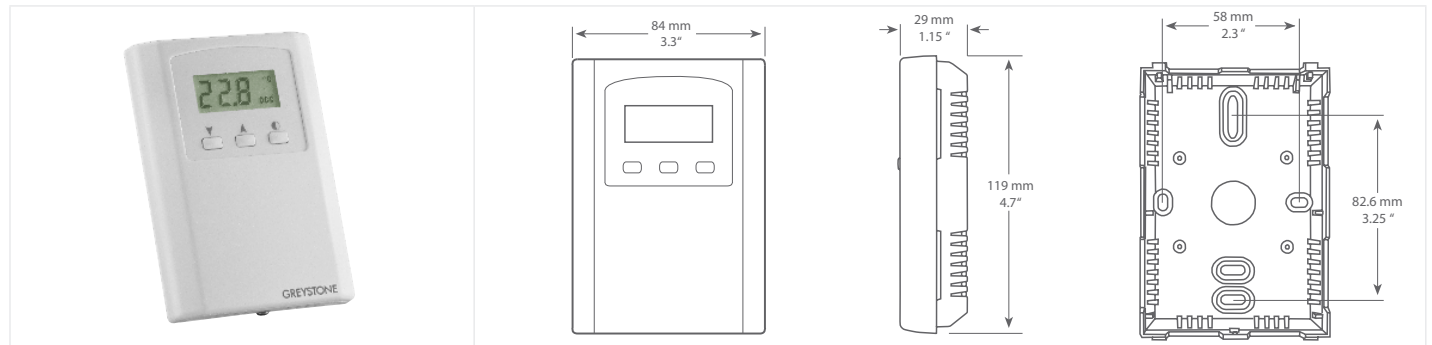




HIGH ACCURACY ROOM TEMPERATURE SENSOR



HATSPC SERIES

PRODUCT DESCRIPTION

The HATSPC room temperature sensor with resistive setpoint control is available in an attractive wall mount enclosure and can be configured with various options. It is available with various high accuracy curve-matched thermistors or RTD sensors to measure temperature.

A back-lit LCD displays room temperature, setpoint on demand and occupancy. Several operating parameters can be programmed using a keypad and on-board jumpers configure the °C/°F display or disable the backlight.

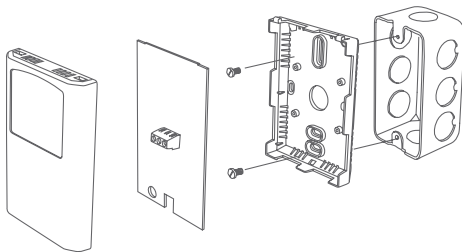
Available options include a dry-contact override switch, a five position fan speed switch and a jack for a network connection.

TYPICAL INSTALLATION

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

The HATSPC 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.

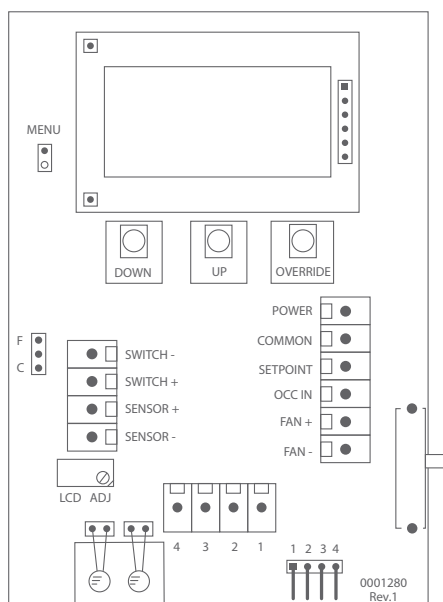


SPECIFICATIONS

POWER SUPPLY	24 Vac/dc $\pm 10\%$ (non-isolated half-wave rectified)
CONSUMPTION	20 mA maximum
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)
TEMPERATURE SIGNAL	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)
SETPOINT ADJUSTMENT	Range: Up/Down pushbuttons for ± 10 resistive steps Signal: Several resistive ranges available, see ordering chart Midpoint: Programmable, 20 to 23°C (68 to 73°F) LCD Increment: Setpoint step size is 0.5°C or 1.0°F Action: Programmable, direct or reverse acting
LCD DISPLAY	Range: 0.0 – 35.0°C or 32.0 – 95.0°F, selectable via jumper Resolution: 0.5°, °C/°F 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
OPTIONAL OVERRIDE SWITCH (S)	Momentary Pushbutton: N.O., SPST, 50 mA @ 12 Vdc
OCCUPIED INPUT	Signal Type: Digital input, 0-5 Vdc standard, active low Action: Causes "OCC" segment to light on LCD
OPTIONAL COMMUNICATION JACK (E)	4 Pin: 4 Pin header. Requires HHTA - Hand Held Adapter
OPTIONAL FAN SPEED SWITCH (F)	Range: 5 Position - Off, Auto, Low, Medium, High Signal: Resistive - 0, 2, 4, 6, 8 K Ω
COUNTRY OF ORIGIN	Canada



WIRING INFORMATION



TERMINAL	FUNCTION
PWR	+24 Vdc/Vac
COM	Common
SETPNT	Resistance Output
OCC IN	Digital Input
FAN +	Resistance Output
FAN -	Common
SWITCH +	Digital Output
SWITCH -	Common
SEN +	Digital Output
SEN -	Common

ORDERING

PRODUCT	HATSPC	High Accuracy Room Temperature Sensor w/ Setpoint Adjustment & LCD
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, ±0.05°C
	55	10,000 Ω Type 2, NTC Thermistor, ±0.03°C
	40	10,000 Ω Type 3, NTC Thermistor, ±0.1°C
	46	20,000 Ω NTC Thermistor, ±0.1°C
RESISTANCE OUTPUT (RANGE 16 TO 26°C IN 0.5°C INCREMENTS OR 60 TO 80°F IN 1°F INCREMENTS)	P	0 to 10,000 Ω
	P1	20,000 to 30,000 Ω
	P2	2000 to 3000 Ω
	P3	0 to 20,000 Ω
	P4	4000 to 2000 Ω
	P5	0 to 2000 Ω
	P6	8000.7 to 3107.3 Ω
	P12	0 to 1000 Ω
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE)	E	4 Pin molex external jack for communications
	S	Exposed override switch with LCD indication option (OSS)
	F	5 position fan switch OFF/Auto/Low/Med/High

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

PART NUMBER

[illegible]

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