

ROOM HUMIDITY/ TEMPERATURE TRANSMITTER SPC Series

The SPC series uses a highly accurate and reliable thermoset polymer based capacitance humidity sensor and curve matched thermistor together with state-of-the-art digital linearization and temperature compensated circuitry in an attractive, low profile enclosure to monitor room humidity & temperature levels. Dual setpoint adjustment features for both RH and temperature are also available. Additional options include manual override, communication jack & fan speed switch.

SPECIFICATIONS:

SI ECH ICATIONS.	
Power Supply24Vac/dc ±10% (non- isolated half-wave rectified)	
Consumption20 mA + (20ma x number of	
outputs) max @ 24 Vdc Input Voltage EffectNegligible over specified	
operating range	
Protection CircuitryReverse voltage and MOV protected and output limited	
Output Signals4-20 mA active (sourcing) or 0-5 Vdc or 0-10 Vdc	
(specify when ordering)	
Output Resolution10 bit for all signals	
Output Drive Capability550 ohm max for current 10Kohm min for voltage	
Programming and Selection Via push buttons and	
on-screen menu Operating Conditions0°-50°C (32°-122°F) 0-95%RH	
non-condensing	
Wiring ConnectionsScrew terminal block (14 to 22 AWG)	
Enclosure Size	
(3.3 X 4.0 X 1.13)	

LCD DISPLAY

Display Size	38.1 x 16.5 mm (1.5" x 0.65")
Digit Height	11.43 mm (0.45")
Symbols	°C, °F, %RH, OCC
Racklight	Fnahle or disable via menu

TEMPERATURE

Accuracy	
Range	0° to 35°C (32° to 95°F) or 0° to 50°C
-	(32° to 122°F) programmable
Offset	±9° F programmable
Display Units	
Display Resolution	0.5° <100°, 1° >100°

TEMPERATURE SETPOINT

Midpoint	8 to 2/ C or 65 to 80 F
р	rogrammable
Range±	2 to ±10°C or ±5 to ±20°F
O	
Resolution0	5 or 1.0°C and 1.0 or 2°F
р	rogrammable

RH

JEHSUI	I HEITHOSEL DOLYTHEL DASEU CADACTIVE
Accuracy	±2, 3, or 5% RH
Range	
Temperature Compensat	tion 0° to 50°C (32° to 122°F)
Hysteresis	± 3% RH
Résponse Time	15 seconds typical
Stability	±1.2% RH typical @ 50% RH in 5 years
	±20% RH programmable

RH SETPOINT

Midpoint	20 to 70% RH programmable
Range	± 5 , ± 10 or $\pm 20\%$ RH of the
3	midpoint, programmable
Resolution	1% RH

OVERRIDE

Front pane	l, momentary pus	sh-button, i	2 wire dry	contact
Switch ratir	ngs	N.O., SPS	ST, 50 mA	@12 Vdc



PRODUCT SELECTION INFORMATION:

1	MODEL	Product Description		
ı	SPC	Room Humidity/Temperature Transmitter		

CODE	Product Parameters
01 02 04 05 06	Humidity transmitter c/w setpoint control Temperature transmitter c/w setpoint control Humidity and temperature transmitter c/w temperature setpoint control Humidity and temperature transmitter c/w humidity setpoint control Humidity and temperature transmitter c/w humidity and temperature setpoint control

CODE	Output			
I V	4-20 mA o 0-5 Vdc or	output · 0-10 Vdc output - Jumper selectable		
	CODE Accuracy (N/A for "02", leave blank)			
	CODE	Accuracy (N/A for "U2", leave blank)	
	02	2%		
	03	3%		
	05	5%		
		CODE	Options	
		S J	Override switch (Includes OCC input) Comm. Jack (3.5 mm phono)	

Fan speed switch

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

OCCUPIED INPUT

FAN SPEED SWITCH	
	Active low or active high, programmable Causes "OCC" segment to light on LCD
	Digital input, 0/5 Vdc or dry contact to common

Kange	Οπ, Auto, Low, Medium, Higr
Signal	Resistance: 0, 2, 4, 6, 8 KΩ
3	(Custom ranges available)

NETWORK COMMUNICATIONS

.. Ring/Mid/Tip connections to a 3-pin terminal block 3.5mm phono jack.....











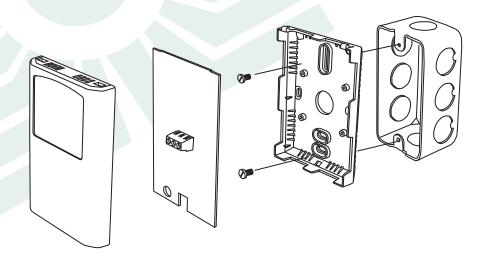
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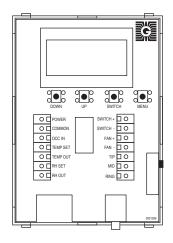
TYPICAL INSTALLATION:

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

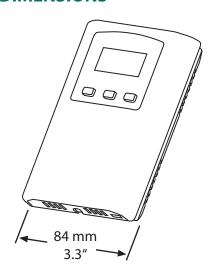
The SPC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

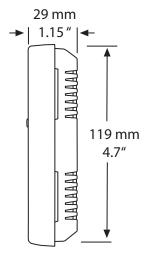
A terminal block connection is provided for connection to the Building Automation System.

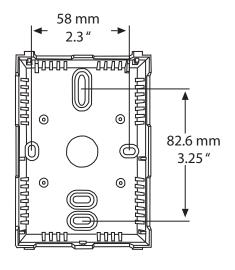




DIMENSIONS









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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.