

HUMIDITY / TEMPERATURE TRANSMITTER C/W SETPOINT ADJUSTMENTS | Samm | 1.15" | 19mm | 4.7" | 19mm | 4

SPC SERIES

PRODUCT DESCRIPTION

The SPC Temperature/Humidity transmitter incorporates two sensors in one attractive wall mount enclosure for the most efficient environmental monitoring and control system. It uses a field-proven RH senor to monitor relative humidity and a curve-matched thermistor to measure temperature.

Two setpoint controls are also available for temperature and humidity adjustment. The device may also include an occupancy override button. Both measurements and setpoint signals are available on separate outputs as linear 4-20 mA, 0-5 or 0-10 Vdc signals.

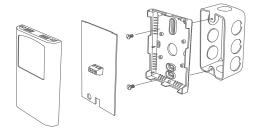
Several configurations of the device are available with one to four outputs as required. An LCD is included for configuration and local indication of all parameters. Several operating parameters can be programmed using a keypad for specific applications including four temperature ranges and °C/°F display.

TYPICAL INSTALLATION

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

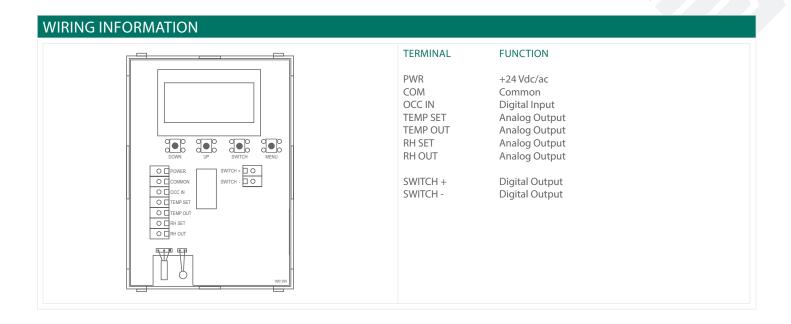
The SPC series can be mounted directly to a single gang electrical box or directly to a wall. Insulation foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

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



SPECIFICATIONS			
POWER SUPPLY	24 Vac/dc ±10 % (non-isolated half-wave rectified)		
CONSUMPTION	20 mA + (20 mA x number of outputs) max @ 24 Vdc		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
OUTPUT SIGNALS	4-20 mA active (sourcing) or 0-5 Vdc or 0-10 Vdc (specify when ordering)		
OUTPUT RESOLUTION	10 bit for all signals		
OUTPUT DRIVE CAPABILITY	Current: 550 Ω max Voltage: 10,000 Ω min		
PROGRAMMING AND SELECTION	Via internal pushbuttons and on-screen menu		
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F) 0-95 %RH non-condensing		
WIRING CONDITIONS	Screw terminal block (14 to 22 AWG)		
ENCLOSURE	Ratings: White ABS - IP30 (NEMA 1) Dimensions: 84mm W x 117mm H x 29mm D (3.3" x 4.6" x 1.15")		
LCD DISPLAY	Size: 38.1mm x 16.5mm (1.5" x 0.65") Digit Height: 11.43mm (0.45") Symbols: °C, °F, %RH, OCC Backlight: Enable or disable via menu		
TEMPERATURE	Sensor: Curve-matched thermistor Accuracy: ±0.2°C (±0.4°F) Range: 0 to 35°C (32 to 95°F) or 0 to 50°C (32 to 122°F) programmable Offset: ±5.0°C programmable Display Units: °C or °F programmable Display Resolution: 0.1° < 100, 1° > 100		
TEMPERATURE SETPOINT	Midpoint: 18 to 27° C (65 to 80° F) programmable Range: ± 2 to $\pm 10^{\circ}$ C (± 5 to $\pm 20^{\circ}$ F) of the midpoint, programmable Resolution: 0.5 or 1.0°C and 1.0 or 2° F programmable		
HUMIDITY	Sensor: Thermoset polymer based capacitive Accuracy: ±2, 3 or 5 %RH (5 to 95 %RH) Range: 0 to 100 %RH Hysteresis: ±0.8 %RH @ 25°C (77°F) Response Time: 8 seconds typical Offset: ±20 %RH programmable Stability: <0.25 %RH/year		
HUMIDITY SETPOINT	Midpoint: 20 to 70 %RH programmable Range: ±5, ±10 or ±20 %RH of the midpoint, programmable Resolution: 1 %RH		
OPTIONAL OCCUPIED INPUT (INCLUDED WITH OVERRIDE OPTION)	Type: Digital input, 0-5 Vdc standard, active low Logic: Active low or active high, programmable Action: Causes "OCC" segment to light on LCD		
COUNTRY OF ORIGIN	Canada		





ORDERING		PART NUMBER	
PRODUCT	SPC	Room Humidity/Temperature Transmitter	SPC
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	
OUTPUT	I V	4-20 mA output 0-5 Vdc or 0-10 Vdc output, jumper selectable	
ACCURACY (N/A FOR "02", LEAVE BLANK)	02 03 05	2% 3% 5%	
OPTIONS	S	Override switch (includes OCC input)	

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



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