

The HASPC 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.

# HIGH ACCURACY ROOM HUMIDITY/ TEMPERATURE TRANSMITTER HASPC Series



# **SPECIFICATIONS:**

| Power Supply              | .24Vac/dc ±10% (non-<br>isolated half-wave rectified) |
|---------------------------|-------------------------------------------------------|
| Consumption               | .20 mA + (20ma x number of outputs) max @ 24 Vdc      |
| Input Voltage Effect      | Negligible over specified operating range             |
| Protection Circuitry      | Reverse voltage and MOV protected and output limited  |
| Output Signals            | .4-20 mA active (sourcing) or 0-5 Vdc or 0-10 Vdc     |
|                           | (specify when ordering)                               |
| Output Resolution         |                                                       |
| Output Drive Capability   | .550 ohm max for current<br>10Kohm min for voltage    |
| Programming and Selection |                                                       |
| 0 6                       | on-screen menu                                        |
| Operating Conditions      | .0 -50 C (32 -122 F) 0-95%KH<br>non-condensing        |
| Wiring Connections        | Screw terminal block                                  |
|                           | (14 to 22 AWG)                                        |
| Enclosure Size            | .84mmW x 117mmH x 29mmD<br>(3.3" x 4.6" x 1.15")      |
|                           | (3.3 A 7.0 A 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    | Enable or disable via menu    |

## **TEMPERATURE**

| Accuracy           | .± 0.1 C (±0.18 F)                      |
|--------------------|-----------------------------------------|
| Range              | .0° to 35°C (32° to 95°F) or 0° to 50°C |
| 3                  | (32° to 122°F) programmable             |
| Offset             | .±9° F programmable                     |
| Display Units      | .°C or °F programmable                  |
| Display Resolution | .0.5° <100°, 1° >100°                   |
|                    |                                         |

## **TEMPERATURE SETPOINT**

| Midpoint   | 18° to 27°C or 65° to 80°F    |
|------------|-------------------------------|
| •          | programmable                  |
| Range      | ±2 to ±10°C or ±5 to ±20°F    |
|            | of the midpoint, programmable |
| Resolution | 0.5 or 1.0°C and 1.0 or 2°F   |
|            | programmable                  |

## RH

| Sensor                   | .Thermoset polymer based capactive    |
|--------------------------|---------------------------------------|
| Accuracy                 | .±1% (30 to 70% RH)                   |
| •                        | ±2% (5 to 95% RH)                     |
| Range                    | .0-100% RH                            |
| Temperature Compensation | .0° to 50°C (32° to 122°F)            |
| Hysteresis               | .± 3% RH                              |
| Response Time            | .15 seconds typical                   |
| Stability                | .±1.2% RH typical @ 50% RH in 5 years |
| Offset                   | .±20% RH programmable                 |

## **RH SETPOINT**

| Midpoint   | 20 to 70% RH programmable                |
|------------|------------------------------------------|
| Range      | $0.\pm 5.\pm 10$ or $\pm 20\%$ RH of the |
| J          | midpoint, programmable                   |
| Resolution |                                          |

## **OVERRIDE**

## **PART NUMBER SELECTED**

# **PRODUCT SELECTION INFORMATION:**

| PRODUCT SELECTION INFORMATION: |     |                                       |             |                                                                                                                                                                                                                                                                                                                                     |  |                    |          |                                                                   |
|--------------------------------|-----|---------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|----------|-------------------------------------------------------------------|
| МОІ                            | DEL | Product Description                   |             |                                                                                                                                                                                                                                                                                                                                     |  |                    |          |                                                                   |
| HAS                            | SPC | Room Humidity/Temperature Transmitter |             |                                                                                                                                                                                                                                                                                                                                     |  |                    |          |                                                                   |
|                                |     | col                                   | DE          | Product Parameters  Humidity transmitter c/w setpoint control Temperature transmitter c/w setpoint control Humidity and temperature tranmitter c/w temperature setpoint control Humidity and temperature tranmitter c/w humidity setpoint control Humidity and temperature tranmitter c/w humidity and temperature setpoint control |  |                    |          |                                                                   |
|                                |     | 0°<br>02<br>04<br>05                  | 2<br>4<br>5 |                                                                                                                                                                                                                                                                                                                                     |  |                    |          |                                                                   |
|                                |     |                                       |             | CODE                                                                                                                                                                                                                                                                                                                                |  | Output             |          |                                                                   |
|                                |     |                                       |             | I<br>V                                                                                                                                                                                                                                                                                                                              |  | 4-20 mA<br>0-5 Vdc |          | ıtput - Jumper selectable                                         |
|                                |     |                                       |             |                                                                                                                                                                                                                                                                                                                                     |  | CODE               | Accuracy | (N/A for "02", leave blank)                                       |
|                                |     |                                       |             |                                                                                                                                                                                                                                                                                                                                     |  | 01<br>02           | 1%<br>2% |                                                                   |
|                                |     |                                       |             |                                                                                                                                                                                                                                                                                                                                     |  |                    | CODE     | Options                                                           |
|                                |     |                                       |             |                                                                                                                                                                                                                                                                                                                                     |  |                    | S        | Override switch (Includes OCC input)<br>Comm. Jack (3.5 mm phono) |

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

# **OCCUPIED INPUT**

| Signal Type | Digital input, 0/5 Vdc or dry contact to common |
|-------------|-------------------------------------------------|
|             | Active low or active high, programmable         |
|             | Causes "OCC" segment to light on LCD            |

## **FAN SPEED SWITCH**

| Range | Off, Auto, Low, Medium, High |
|-------|------------------------------|
|       | Resistance: 0, 2, 4, 6, 8 KΩ |
| •     | (Custom ranges available)    |

## **NETWORK COMMUNICATIONS**

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









Fan speed switch



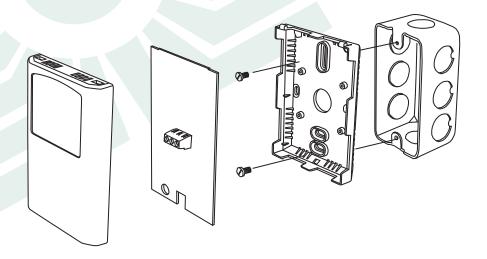
08/16

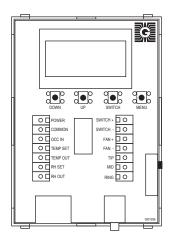
## **TYPICAL INSTALLATION:**

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

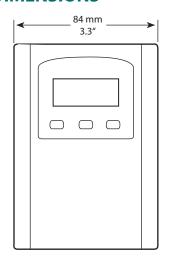
The HASPC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

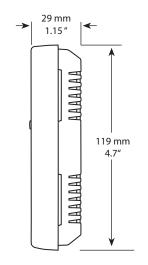
A terminal block connection is provided for connection to the Building Automation System.

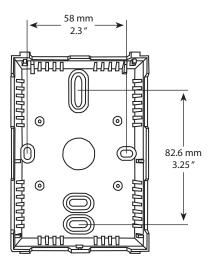




# **DIMENSIONS**







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# **GREYSTONE**

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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.