

# HEW SERIES



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## Economy Wall Mount Humidity Sensor

### Installer's Specifications

#### Input Power:

Input Power, Voltage Version	12-24 VDC or 24 VAC
Input Power, mA Version	12-24 VDC
AC Voltage Tolerance	±10%
AC Frequency	50-60 Hz
Max. Inrush Current After 1 msec (mA version)	25 mA

#### Output Power:

mA Output	4-20 mA, 2-wire, polarity insensitive
mA Max. Loop Resistance	500 Ω at 24 VDC input voltage; 250 Ω at 12 VDC input voltage
Voltage Output	0-5 V or 0-10 V (jumper selectable)
Voltage Min. Load Resistance	5 kΩ
Voltage Min. Sinking Current	0.2 mA

#### Humidity:

HS Element	Digitally profiled thin-film capacitive, non-removable
Accuracy	±2%, 3% or 5% (10-90% RH, 20° to 30°C (68° to 86°F))
Temperature Effect (Outside 20° to 30°C)	≤0.1% RH per °C
Response Time (to 90% change at 20°C)	110 sec
Annual Drift	≤1%
Output Scaling	0-100% RH

#### Temperature:

Active Output Accuracy	±0.5°C
Active Output Temperature Scaling	10° to 35°C (50° to 95°F)
Resistive Temperature Accuracy	see thermistor table
Self-Heating Error (Resistive Temperature Only)	≤±0.5°C at 20° to 30°C (68° to 86°F); ≤±0.75°C outside of 20° to 30°C (68° to 86°F)

#### Operating Environment:

Operating Temperature	0° to 50°C (32° to 122°F)
Operating Humidity	0-100% RH (non-condensing) (Unit will recover from saturation)

#### Housing:

Material	ABS plastic with UL V-0, 5VB Flame Class
Mounting Holes	US and European junction box

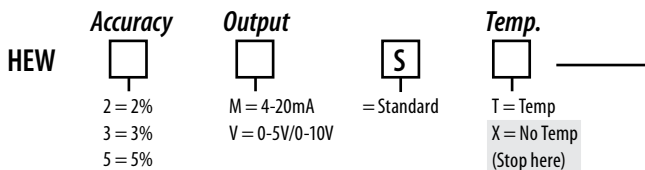
EMC Conformance: EN61000-6-3:2007+A1:2011 Class B, EN61326-1:2006 Class B; EN61000-6-1:2007

1-year limited warranty.

## NOTICE

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- Read and understand the instructions before installing this product.
- Turn off all power supplying equipment before working on it.
- The installer is responsible for conformance to all applicable codes.

## PRODUCT IDENTIFICATION



### Sensor Type

- 
- A = Temp Transmitter
  - B = 100R Platinum, RTD
  - C = 1k Platinum, RTD
  - D = 10k T2, Thermistor
  - E = 2.2k, Thermistor
  - F = 3k, Thermistor
  - G = 10k CPC Thermistor
  - H = 10k T3, Thermistor
  - J = 10k Dale, Thermistor
  - K = 10k with 11k shunt, Thermistor
  - M = 20k NTC, Thermistor
  - N = 1800 ohm TAC, Thermistor
  - R = 10k US, Thermistor
  - S = 10k 3A 221 Thermistor
  - T = 100k, Thermistor
  - U = 20k "D", Thermistor
  - W = 10k T2 high accuracy, Thermistor
  - Y = 10k T3 high accuracy, Thermistor
  - Z = 10k E1, Thermistor

### Temp Cert

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- Blank = None
  - 1 = 1 pt cal
  - 2 = 2 pt cal

## QUICK INSTALL



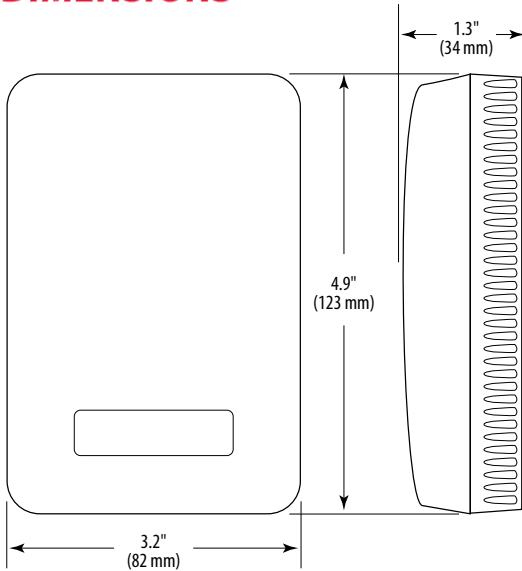
Observe precautions for handling static sensitive devices to avoid damage to the circuitry that is not covered under the factory warranty.

1. Mount the backplate on the wall in an appropriate location. Place so that the "Install This End Up" statement on the board is in the upper right corner.
2. Wire the unit as shown (see Wiring section).
3. Attach the front plate.

**OPERATION**

The HEW series economy wall mount humidity sensors measure the levels of RH and temperature (if equipped) in the air inside a room. HEWs are warranted to meet accuracy specifications for 1 year. To maintain accurate functionality, keep all pickup vents clear and free of dust, debris, etc.

**DIMENSIONS**



**INSTALLATION**

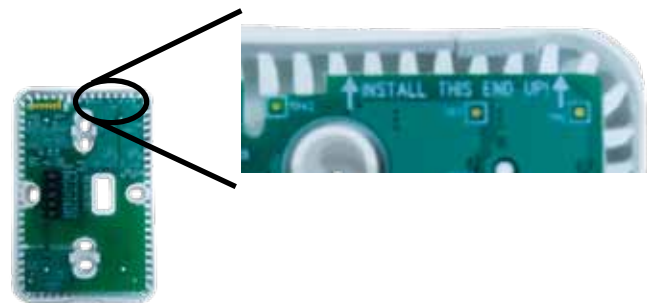


Observe precautions for handling static sensitive devices to avoid damage to the circuitry that is not covered under the factory warranty.

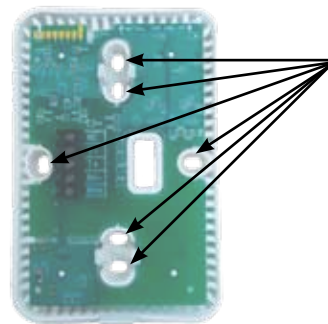


1. Remove the cover by pressing the tab on the bottom of the sensor while pulling outward on the bottom edge of the cover.

2. Position the sensor vertically on the wall, 4 ½ feet (1.5 m) above the floor. Place so that the "Install This End Up" statement on the board is in the upper right corner.



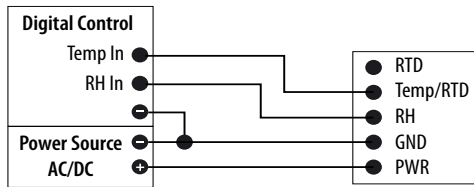
3. Mount the backplate onto the wall using the screws provided.



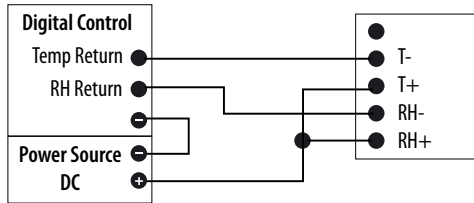
Six screwholes available; use a minimum of two for secure mounting.

4. Wire the backplate.

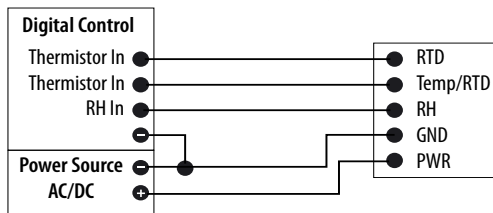
*0–5V/0–10V Versions, No Thermistor*



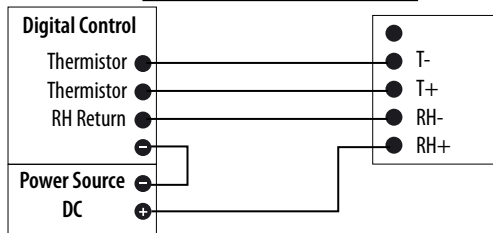
*4–20mA Versions, No Thermistor*



*0–5V/0–10V Versions, Thermistor*



*4–20mA Versions, Thermistor*



5. Install the cover and snap into place.

