

HEW SERIES

2%, 3%, and 5% Accuracies



HEW Economy Series wall mount humidity transmitters offer high performance in an easy to install housing at an affordable price. The thin-film capacitive sensor element provides high accuracy and performance, great long-term stability, and full recovery from saturation. Temperature sensing options are also available.

The wall housing was created using sophisticated thermal analysis techniques for optimum airflow. It is ideal for schools and other applications requiring exceptional durability and a discrete appearance. All Economy models come with a standard one-year warranty.

SPECIFICATIONS

INPUT POWER

| | |
|---|---------------------------------|
| Voltage Model | Class 2; 12 to 24 Vdc or 24 Vac |
| mA Model | Class 2; 12 to 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 to 20mA, 2-wire, not polarity sensitive |
| mA Max. Loop Resistance | 500 Ω at 24 Vdc input voltage; 250 Ω at 12 Vdc input voltage |
| Voltage Output | 0 to 5 V or 0 to 10 V (jumper selectable) |
| Voltage Min. Load Resistance | 5 k Ω |
| Voltage Min. Sinking Current | 0.2 mA |

RH TRANSMITTER

| | |
|--|--|
| RH Element | Digitally profiled thin-film capacitive, non-removable |
| Accuracy* | ±2%, 3%, or 5% (10 to 90% RH, 20 to 30 °C) |
| 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 to 100% RH |

RH & temperature Low profile

Monitor humidity and temperature with a single device... reduces installation costs

Housing is low-profile...perfect for schools and museums

Sensor options

Semiconductor temperature transmitter, or popular thermistor/RTD sensors available

APPLICATIONS

- HVAC economizer control
- Managing energy systems
- Facilitating ASHRAE standards for environmental control

TEMPERATURE TRANSMITTER OPTION

| | |
|---|--|
| Active Output Accuracy | ±0.5 °C (±.9 °F) |
| Active Output Temp Scaling | 10 to 35 °C (50 to 95 °F) |
| 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 to 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 |
| Mounting Location | For indoor use only. Not suitable for wet locations. |

WARRANTY

| | |
|------------------|--------|
| Limited Warranty | 1 year |
|------------------|--------|

COMPLIANCE INFORMATION

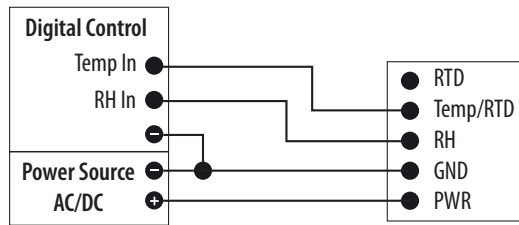
| | |
|------------------|---|
| Agency Approvals | EMC Conformance: Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU |
|------------------|---|



* Humidity sensor measurement uncertainty should include: accuracy, hysteresis, temperature coefficient and stability.

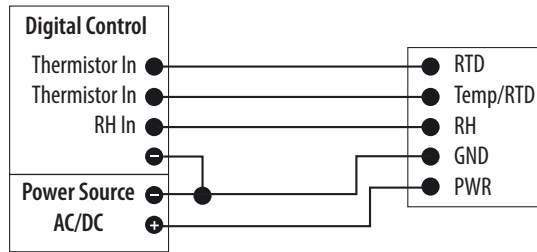
0-5V/0-10V MODELS, TEMPERATURE TRANSMITTER

Wiring Diagram



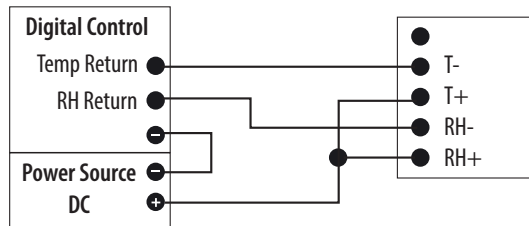
0-5V/0-10V MODELS, TEMPERATURE TRANSMITTER

Wiring Diagram



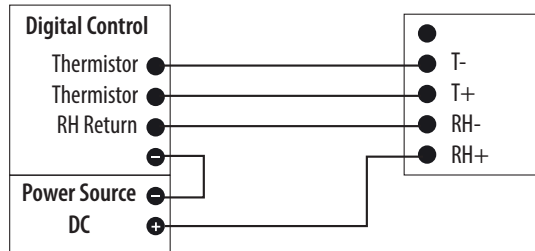
4-20 mA MODELS, TEMPERATURE TRANSMITTER

Wiring Diagram

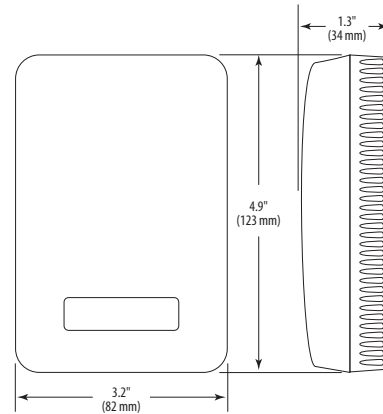


4-20 mA MODELS, THERMISTOR

Wiring Diagram



DIMENSIONAL DRAWING



ORDERING INFORMATION

| Accuracy | Output | Temp. | Sensor Type | Temp Cert |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| HEW <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 = 2% | M = 4-20mA | T = Temp | A = Temp. Transmitter | Blank = None |
| 3 = 3% | V = 0-5 Vdc/0-10 Vdc | X = No Temp (Stop here) | B = 100R Platinum, RTD | 1 = 1 pt cal* |
| 5 = 5% | | | C = 1k Platinum, RTD | 2 = 2 pt cal* |
| <p>Examples:</p> <p><u>With Temp:</u></p> <p>HEW <input type="checkbox"/> 3 <input type="checkbox"/> M <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> C</p> <p><u>Without Temp:</u></p> <p>HEW <input type="checkbox"/> 3 <input type="checkbox"/> V <input type="checkbox"/> S <input type="checkbox"/> X Stop Here</p> | | | | |
| <p>*Not available with W and Y high-accuracy thermistors.</p> | | | | |