

HW-T1 Series



Installer's Specifications

HS Element . . Digitally profiled thin-film capacitive
 (32 bit mathematics) U.S. Patent 5,844,138
 Accuracy at 25°C from 10-80% RH** . . Multi-point
 calibration; NIST traceable
 $\pm 2\%$ or 3%
 Reset Rate* 24 hours
 Stability $\pm 1\%$ @ 20°C (68°F) annually, for two years
 Hysteresis 1.5% (typical)
 Linearity Included in Accuracy spec.
 Operating Humidity Range 0 to 100% RH
 Operating Temperature Range 10°C to 35°C
 (50°F to 95°F)
 Temperature Coefficient $\pm 0.1\%$ RH/°C
 above or below 25°C (typical)
 Analog Output . . . 4-20 mA mode: 2-wire, polarity
 insensitive; 0-5V/0-10V mode: 3-wire, observe polarity
 Scaling. 0-100% RH
 Input Power 4-20
 mA mode: loop powered 12-30 VDC only, 30 mA max.
 0-5V/0-10 V mode: 12-30 VDC/24 VAC, 15 mA max.
 Conformance. EMC EN 50081-1, EN
 50082-1, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
 50204, EN 61000-4-6

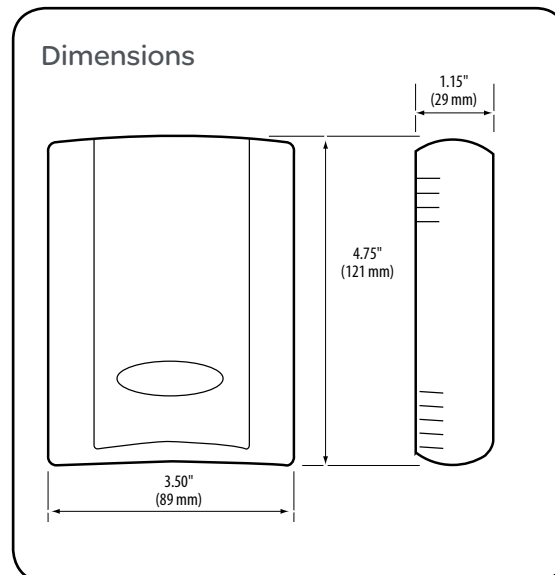
One side of transformer secondary is connected to signal common. Isolation
 transformer or dedicated power supply may be required. To conform to EMC
 standards, shielded cabling and technical information is available from the
 factory upon request or is available on our website: www.veris.com

* Reset Rate is the time required to recover to 50% RH after exposure to 90%
 RH for 24 hours.

** Specified accuracy with 24VDC supplied power with rising humidity.

RTD/Thermistors in wall packages are not compensated for internal heating
 of product.

Digital RH & RH/T Thermistor/RTD/Temp Transmitter (Non-Display Model)



Product Identification

Model	Description
HW2M-TI	Space RH Sensor, 4-20mA Output, 2% Accuracy
HW3M-TI	Space RH Sensor, 4-20mA Output, 3% Accuracy
HW2V-TI	Space RH Sensor, 0-5/0-10V Output, 2% Accuracy
HW3V-TI	Space RH Sensor, 0-5/0-10V Output, 3% Accuracy
HW2M2-TI	Space RH Sensor w/10k Thermistor, 4-20mA Output, 2% Accuracy
HW3M2-TI	Space RH Sensor w/10k Thermistor, 4-20mA Output, 3% Accuracy
HW2V2-TI	Space RH Sensor w/10k Thermistor, 0-5/0-10V Output, 2% Accuracy
HW3V2-TI	Space RH Sensor w/10k Thermistor, 0-5/0-10V Output, 3% Accuracy
HW2M3-TI	Space RH Sensor w/10k Thermistor w/11k Shunt, 4-20mA Output, 2% Accuracy
HW3M3-TI	Space RH Sensor w/10k Thermistor w/11k Shunt, 4-20mA Output, 3% Accuracy
HW2V3-TI	Space RH Sensor w/10k Thermistor w/11k Shunt, 0-5/0-10V Output, 2% Accuracy
HW3V3-TI	Space RH Sensor w/10k Thermistor w/11k Shunt, 0-5/0-10V Output, 3% Accuracy
HW2M1-TI	Space RH Sensor w/1k Pt RTD, 4-20mA Output, 2% Accuracy
HW3M1-TI	Space RH Sensor w/1k Pt RTD, 4-20mA Output, 3% Accuracy

Quick Install

1. Select a mounting location away from ventilation sources. The sensor should be mounted on a vertical wall, about 4 1/2 feet above the floor.
2. Affix the backplate to the wall.
3. Wire the device. Refer to wiring diagrams on page 2.
4. Install Cover.

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.

installation

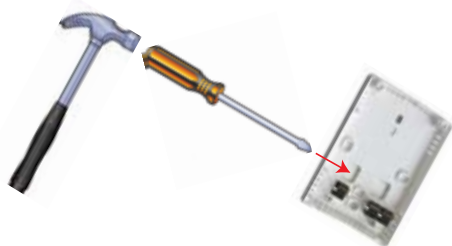
1. Remove the cover by pressing the tab at the top of the sensor while pulling outward from the top of the cover.



2. Remove the backplate by unfastening the sensor from the bottom of the backplate and pivoting the sensor outward.



3. Punch out openings in the backplate.



4. Position the sensor vertically on the wall, 4 1/2 feet above the floor.

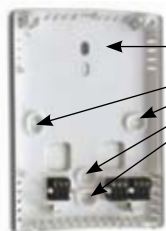


correct



incorrect

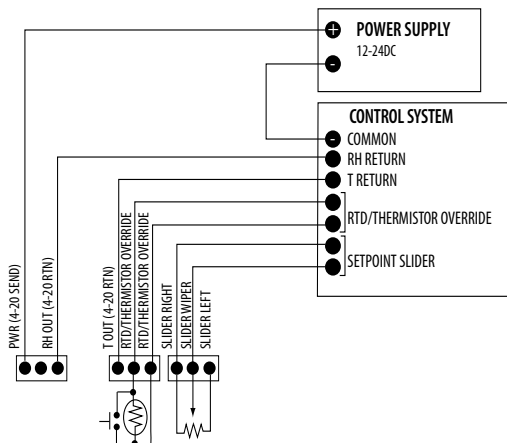
5. Mount the backplate onto the wall using the screws provided.



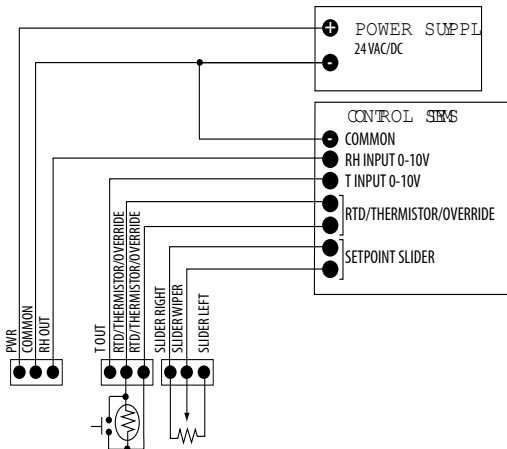
Five screwholes available; use a minimum of two for secure mounting.

6. Wire the backplate.

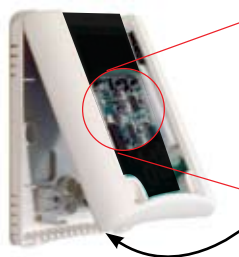
Current Output (2-Wire, 4-20mA)



Voltage Output (3-Wire, 0-10V)



7. Install and configure the sensor.



OUTPUT SELECT

VOLTS ☐ **mA** ☐

RH OUT ☐ **T OUT** ☐

10V 5V 10V 5V

T RANGE ☐ **T SCALE** ☐

50/95 32/122 °F °C

8. Install the cover and snap into place.



WARNING: Output select must be correct before applying power.