

HWS SERIES



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Wall Mount with Relay Setpoints, LCD Display,
1% NIST, 2% NIST, 2%, 3%, or 5%

Installer's Specifications

Power Supply*	15 to 30VDC/24VAC, 100mA max.
Outputs, Analog	Switch Selectable 4-20mA or 0-10V/0-5VDC (switch affects both outputs)
Outputs, Relay (relay models only)	2 Form C (SPDT), 1A 30 VDC, resistive, 30W max.
RH Sensor	Digitally profiled thin-film capacitive (32-bit mathematics) U.S. Patent 5,844,138
Accuracy at 25°C from 10-80% RH**	±2%, 3%, or 5% models ±1% at 12-40% RH in mA output mode; ±1% at 30% RH in voltage output mode (Multi-point calibration NIST traceable)
Reset Rate***	24 hours
Stability	±1% @ 20°C (68°F) annually, for two years
Hysteresis	1.5% (typical)
Linearity	Included in Accuracy spec.
Operating Humidity Range	0-100% RH
Temperature Coefficient	±0.1%RH/°C above or below 25°C (typical)
Operating Temperature Range	10° to 35°C (50° to 95°F)
Scaling	0-100% RH
Calibration Offset	Adjustable ±9.9% in 0.1% increments
Setpoint Range	10-80% RH in 1% increments

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

RH Only Device

	Accuracy	NIST	Setpoint	
HWS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1 = 1% 2 = 2% 3 = 3% 5 = 5%	N = NIST (1 & 2% only) X = No (2, 3, 5% only)	= Relay	

*One side of transformer secondary is connected to signal common, so an isolation transformer or dedicated power supply may be required.

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

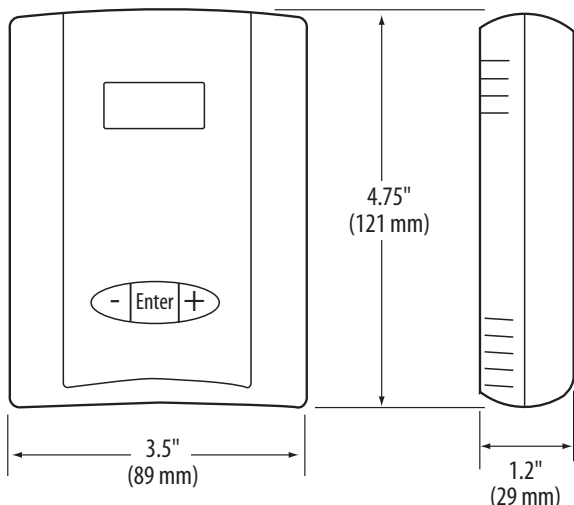
***Reset Rate is time required to recover to 50% RH after exposure to 90% RH for 24 hours.

To maintain CE compliance the connected power supply must have a CE mark supporting LV + CE directives.

QUICK INSTALL

1. Select a mounting location away from ventilation sources. The sensor should be mounted on a vertical wall, about 4 ½ feet above the floor.
2. Affix the backplate to the wall.
3. Wire the device. Refer to wiring diagram.
4. Install Cover.

DIMENSIONS



INSTALLATION

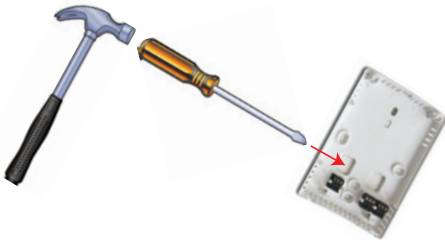
1. Remove the cover by pressing the tab at the top of the sensor while pulling outward from the top of the cover.



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 ½ feet above the floor.

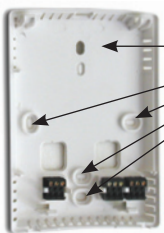


correct



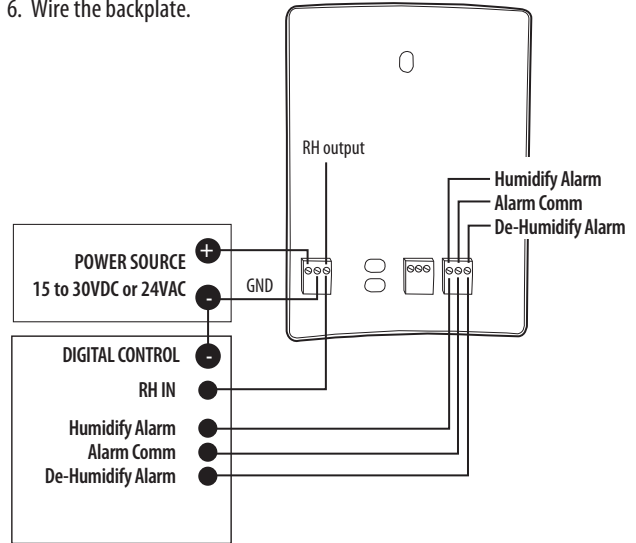
incorrect

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

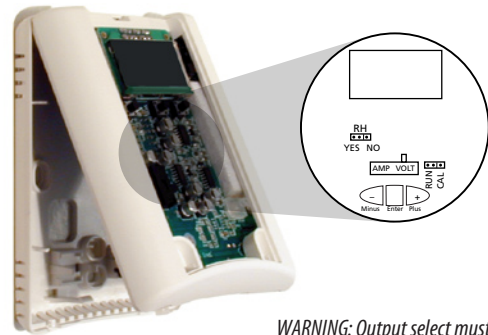


Five screwholes available; use a minimum of two for secure mounting.

6. Wire the backplate.



7. Install and configure the sensor.



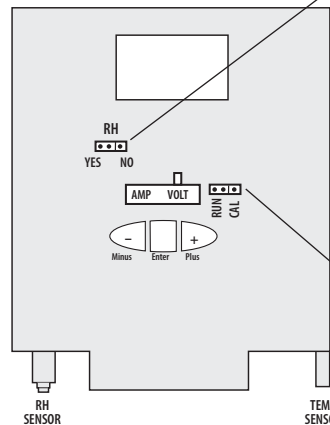
WARNING: Output select must be correct before applying power.

RH YES/NO JUMPER:

YES - allows user to change setpoint (in humidistat mode)
 NO - user can NOT change setpoint (in humidistat mode)

RUN/CAL JUMPER:

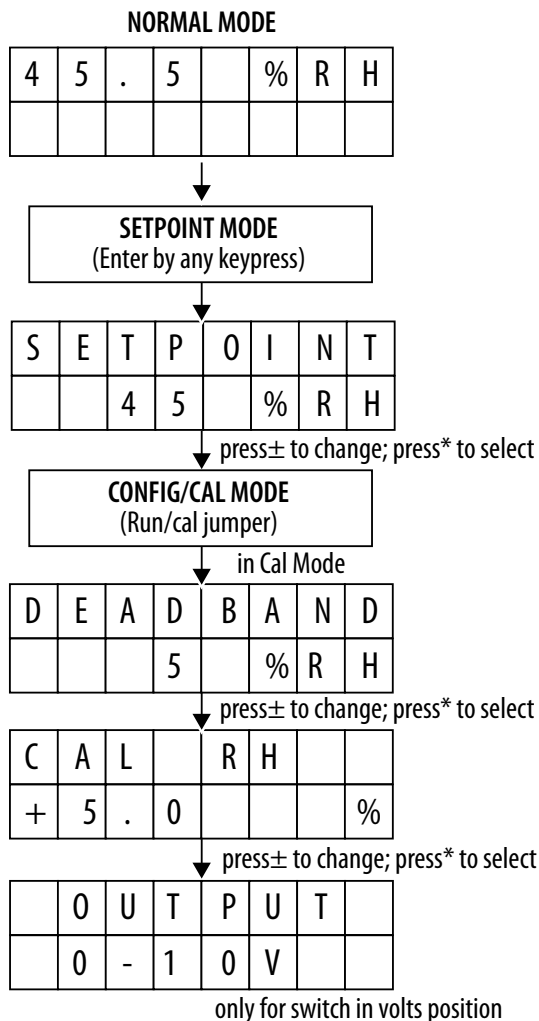
CAL Mode - allows full access to all features.
 RUN Mode - allows access to relay setpoint ONLY.



8. Install the cover and snap into place.



MENU



HWS CALIBRATION INSTRUCTIONS

1. RH can be field calibrated by moving RUN/CAL jumper to CAL position.
2. Relative humidity allows for calibration offset of ±9.9% RH – user discretion.

