

N = 1.8K TAC thermistor R = 10K curve G***



If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this material.

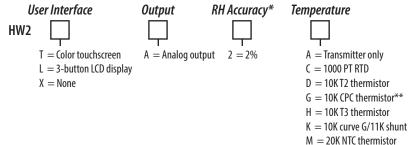
HW2 Series

Wall Mount Humidity Sensors

Product Overview

The HW2 Series of humidity sensors for living space is a flexible multisensor platform for use with BAS controllers designed to accept 4 to 20mA, 0 to 5Vdc or 0 to 10Vdc outputs. HW2 Series sensors are available with three user interface options: touchscreen, LCD with three buttons and blank. Humidity and temperature sensors are included with all HW2 Series sensors.

Product Identification



* Replaceable 1% with NIST certificate, 2% with NIST certificate and 2% elements available.

** Available in HW2XA2G only.

*** Available in HW2XA2R only.

Specifications

OPERATING ENVIRONMENT			
Input Power Class 2; 20 to 30 Vdc, 24 Vac, 50 to 60 Hz			
Analog Output	Selectable 4 to 20 mA, 0 to 5 V, 0 to 10 V		
Operating Temp. Range	0 to 50 °C (32 to 122 °F)		
Operating Humidity Range) to 95% RH non-condensing		
Housing Material	High-impact ABS plastic		
Terminal Block Torque	0.5 to 0.6 N-m (0.37 to 0.44 in-lbf)		
RH TRANSMITTER			
HS Sensor Thin-film capacitive, replaceable			
Accuracy	$\pm 2\%$ from 10 to 80% RH @ 25°C (77 °F)		
Hysteresis	1.5% typical		
Stability	$\pm 1\%$ @ 20°C (68 °F) annually for 2 years		
Output Range	0 to 100% RH		
Temperature Coefficient	$\pm 0.1\%$ RH/°C above or below 25 °C (77 °F) typical		
TEMPERATURE TRANSMITTER OPTION			
Sensor Type	Solid state, integrated circuit		
Accuracy	acy ±0.2 °C (±0.4 °F) typical		
Resolution	0.1 °C (0.1 °F)		
Range 0 to 50 °C (32 to 122 °F)			

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Specifications (cont.)

	DISPLAY MODELS			
Touchscreen	61 mm (2.4 in), color, backlit, capacitive, 240x300 px Setpoint: 0-10Vdc. Temperature, humidity or fan speed selectable Timeout override: Display timeout* Lockout override: Touchscreen/button lockout*			
LCD	52mm (2.05 in), segemented with 3 buttons Setpoint: 0-10Vdc. Temperature, humidity or fan speed selectable Timeout override: Display timeout* Lockout override: Touchscreen/button lockout*			
	SETPOINTS**			
Temperature Setpoint	0 to 10V output Scale: 10 to 35 °C (50 to 95 °F) / 0 to 50 °C (32 to 122 °F)			
Humidity Setpoint	0 to 10V output Scale: 0 to 100% RH			
Fan Speed Setpoint	0 to 10V output Off 0V, Low 3.3V, Med. 6.7V, High 10.0V			
	WIRING TERMINALS			
Terminal Blocks	Screw terminals, 18-24 AWG			
Screw Terminal Torque	0.2 N-m (2.0 in-lbF) max.			
	WARRANTY			
Limited Warranty	5 years			
COMPLIANCE INFORMATION				
Agency Approvals	UL 916, European conformance CE: EN61000-6-2, EN61000-6-3, EN61000 Series - industrial immunity, EN 61326-1 FCC Part 15 Class B, REACH, RoHS, RCM (Australia), ICES-003 (Canada)			

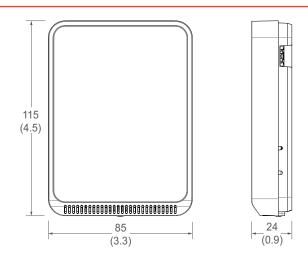
*DIP switch selectable.

** One setpoint type is selectable via DIP switch on display models only.

HW2 Series Installation Guide

Dimensions





Functions

The HW2 Series sensor measures the RH and temperature in a room and provides analog outputs to a controller.

Installation

1. Remove the cover from the base at the bottom of the device.



2. Position the sensor base vertically on the wall 1.35 m (4.5 ft.) above the floor with the "UP" arrow facing upward. Locate away from windows, vents and other sources of draft. If possible, do not mount on an external wall, as this may cause inaccurate temperature readings.





3. Pull 18 or 22 AWG cable(s) through the hole in the backplate.





Installation (cont.)

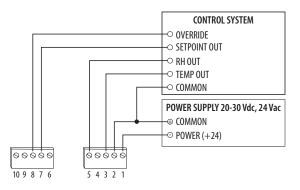
4. Mount the backplate onto the wall using the screws provided.



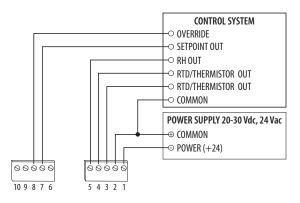
5. Connect the wires to the screw terminals. Do not over-tighten the screws.



Wiring for models with temperature transmitter:.



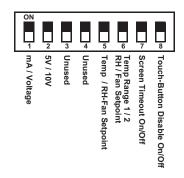
Wiring for models with RTD/thermistor:



HW2 Series Installation Guide

Installation (cont.)

6. Set the DIP switches.



Switch	Function	Description		
1	Output mode	ON - 4-20mA output mode enabled OFF - Voltage output mode enabled		
2	Voltage output range*	ON - 0-5V output range enabled OFF 0-10V output range enabled		
3	Unused	Unused		
4	Unused	Unused		
5	Setpoint output type	ON - Temperature setpoint enabled (temp range selected on DIP switch 6) OFF - RH or Fan Speed setpoint enabled (specific setpoint output type to be selected on DIP switch 6) Models without RH option select only temp or fan setpoint		
6	Setpoint output temperature range or RH/Fan Speed output type	Temperature setpoint (must be enabled on DIP switch 5) ON - Temp range 1, 50 to 95 °F (10 to 35 °C) enabled OFF - Temp range 2, 32 to 122 °F (0 to 50 °C) enabled		
		RH or Fan Speed setpoint (must be enabled on DIP switch 5) ON - RH setpoint enabled OFF - Fan Speed setpoint enabled Models without RH option, set to OFF		
7	Display times out and turns off after 6-10 seconds of touchscreen/button press	ON - Display Timeout enabled OFF - Display Timeout disabled		
8	Touchscreen touch functions and buttons are disabled	ON - Touchscreen touch/button functions disabled OFF - Touchscreen touch/button functions enabled		

* Only used with voltage output mode enabled.

7. With sensor base fully installed, align top of cover to mounting tabs on top of sensor base. Swing cover downward until it latches at the bottom.



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HW2 Series Installation Guide



Installation (cont.)

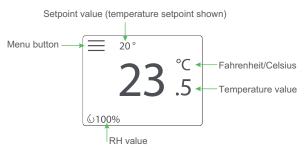
8. Install locking screw to secure cover in closed position.



Touchscreen Operation

Main Screen

The touchscreen user interface displays applicable sensor output values (temperature and RH), setpoint value and menu button.



Menu Screen

The menu screen opens when pressing the Menu button on the main screen. Integrator's submenu, occupancy/override, Fahrenheit/Celsius, settings and setpoint submenu (temp, RH or fan, determined by DIP switch settings) are displayed on the menu screen.

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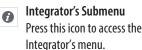
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	RH setpoint		

DIP switch selected

Temperature setpoint DIP switch selected

Menu Button Functions



ccess the Model Serial # Date cc

Occupied Override Button
Press this icon to provide
momentary ground output to
the controller

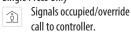
Fahrenheit/Celsius Switch Press this icon to display either °C or °F.

Fan Speed setpoint
DIP switch selected

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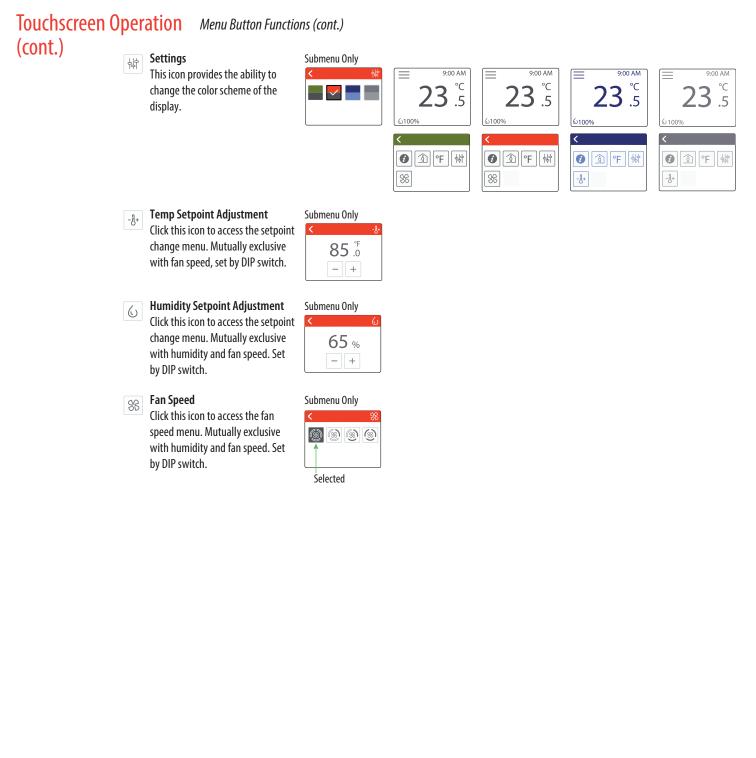
Single Press Only



Single Press Only

- °F Changes units to
- Fahrenheit when pressed.
- °C Changes units to
- Celsius when pressed.





China RoHS Compliance Information

Environment-Friendly Use Period (EFUP) Table

部件名称	部件名称 有害物质 - Hazardous Substances					
Part Name	Part Name 铅 (Pb) 汞 (Hg) 镉 (Cd) 六价铬 (Cr (VI)) 多溴联苯 (PBB) 多溴二苯醚 (PBDE)				多溴二苯醚 (PBDE)	
电子件 Electronic	х	0	0	0	0	0

本表格依据SJ/T11364的规定编制。

O:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

X:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

(企业可在此处,根据实际情况对上表中打[×]:的技术原因进行进一步说明。)

This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572

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