ϵ

M = 20k NTC, Thermistor N = 1800 ohm TAC, Thermistor

Q = 1uA/C, Linitemp

R = 10k US, Thermistor S = 10k 3A 221

T = 100k, Thermistor U = 20k "D", Thermistor

HT SERIES



Installer's Specifications

Power Supply*	15 to 30VDC/24VAC, 100mA max.
Outputs	2 Form C (SPDT), 1A 30VDC, 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
	\pm 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	$\pm 1\%$ @ 20°C (68°F) annually, for two years
Hysteresis***	RH: 1.5% (typical), Temp: 1° to 5°C in 1°C increments
	(1° to 10°F in 1°F increments)
Linearity	Included in Accuracy spec.
Operating Humidity Range	0-100% RH (noncondensing)
Temperature Coefficient	$\pm 0.1\%$ RH/°C above or below 25°C (typical)
Operating Temperature Range	10°-35°C (50°-95°F)
Temperature Accuracy	± 1.0 °C (± 1.8 °F)
Scaling RH: 0-100% RH; Temp:	10°-35°C (50°-95°F) or 0°-50°C (32°-122°F) menu selectable
Calibration Offset***	RH: Adjustable $\pm 9.9\%$ in 0.1% increments;
	Temp: Adjustable ±5.0°C (9.9°F) in 0.1° increments
Setpoint Range***	RH: 10-80% RH in 1% increments;
	Temp: Minimum to Full Scale in 1° increments

HT SERIES

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

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

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

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

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
- Turn off all power supplying equipment before working on it.
- The installer is responsible for conformance to all applicable codes.

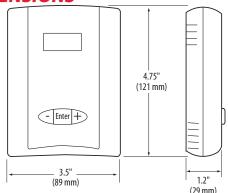
DPODLICT IDENTIFICATION

PRODUCTIDENTIFICATION									
				Temp Cal					
Accuracy	NIST	Setpoint		Certificate	Option				
нт 🖵	口	R	S	\Box	口				
1 = 1%	N = NIST	= Relay	= CE	0 = None	B = 100R Platinum, RTD				
2 = 2%	(1 & 2% only)			1 = 1 point Cal	C = 1k Platinum, RTD				
3 = 3%	X = No			Validation	D = 10k T2, Thermistor				
5 = 5%	(2, 3, 5% only)			2 = 2 point Cal	E = 2.2k, Thermistor				
				Validation	F = 3k, Thermistor				
					G = 10k CPC Thermistor				
					H = 10k T3, Thermistor				
					J = 10k Dale, Thermistor				
					K = 10k w/11k with Shunt,				
					Thormistor				

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



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

^{***} Specified accuracy with 24VDC supplied power with rising humidity.

HT SERIES

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.



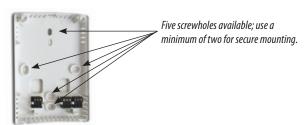
3. Punch out openings in the backplate.

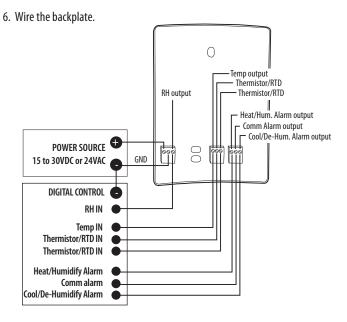


4. Position the sensor vertically on the wall, 4 ½ feet above the floor.

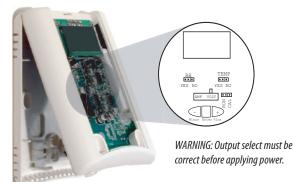


5. Mount the backplate onto the wall using the screws provided.





7. Install and configure the sensor.



RH YES/NO JUMPER:

YES - allows user to change setpoint (in humidistat mode)

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

TEMP YES/NO JUMPER:

YES - allows user to change setpoint (in thermostat mode)

NO - user can NOT change setpoint (in thermostat mode)

RUN/CAL JUMPER:

CAL Mode - allows full access to all features.

RUN Mode - allows access to relay setpoints ONLY.



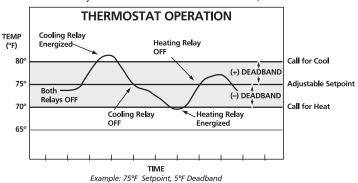
RH SENSOR

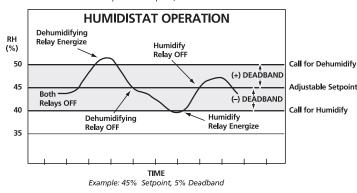


TEMP SENSOR

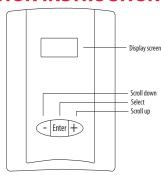
HT CALIBRATION INSTRUCTIONS

- 1. Temperature calibration allows for calibration offset of $\pm 9.9^{\circ}$ F, user discretion. RH and TEMP can be field calibrated by moving RUN/CAL jumper to CAL position.
- 2. Relative humidity allows for calibration offset of $\pm 10\%$ RH, user discretion.





HT OPERATION INSTRUCTIONS



Normal Operation

NORMAL MODE							
4	5		5		%	R	Н
6	8		5			0	F

Temperature Selection

Use the (+) and (-) buttons to scroll to the Thermostat mode:

S	Ε	T	Р	0	I	N	T
		7	0				F

press ± to change, press * to select; setpoint in °C if Celsius units are selected

Humidity Selection

Use the (+) and (-) buttons to scroll to the Humidistat mode:

S	E	T	Р	0	I	N	T
		4	5		%	R	Н

press \pm to change, press * to select

MENU

