

HZ-THSTAT

Horizon® Wireless Thermostat



- Compatible with conventional 2H/2C systems, heat pump 4H/2C systems with auxiliary heat, 2-Pipe FCU 2H/2C, 4-Pipe FCU H/C, and systems with radiant flooring and humidity control
- 3.5 in. touch screen LCD display with RGB backlit capacitive buttons
- Slim design extends only 0.57 in. (14 mm) from the wall
- Control system integration via a Wi-Fi® wireless network
- Reports the current outdoor temperature and weather conditions as well as the week's forecast
- Utilizes built-in temperature and humidity sensors
- Supports up to four remote temperature sensors and up to two remote temperature/humidity sensors
- Light bar with RGB backlight provides status and indicates mode and call
- Integrated proximity and ambient light sensors ensure the thermostat looks perfect in any room lighting condition
- Supports retrofit applications with no common wire using the [HZA-CONV-THSTAT-2WIRE](#) accessory (sold separately) and as few as two wires
- Mounts to a standard US-style, 1-gang new or old work electrical box, low voltage mounting bracket, or directly to the wall
- Fan Circulation modes ensure an even temperature throughout a house
- Resettable fan run timers in the device symbol can provide filter replacement and maintenance reminders
- Hidden USB port can be used to power and preconfigure the thermostat
- Remotely initiate the deployment of one or more thermostats to support on-site personnel
- Thermostat display matches the Crestron Home® OS interface for a familiar experience
- Available in white, black, and almond

The Crestron® [HZ-THSTAT](#) is a versatile, wall-mounted heating and cooling thermostat with integrated humidistat capable of controlling two stage heat/cool systems, two stage heat pump systems with two auxiliary heat stages, 2-pipe and 4-pipe FCU systems, floor warming systems, and humidity systems. A Wi-Fi® thermostat, the HZ-THSTAT delivers enhanced functionality when combined with a complete Crestron automation system.

The 3.5 in. LCD touch screen display is used to configure the system type, radiant floor, system performance, sensor setup, and thermostat control settings.

Integrated proximity and ambient light sensors ensure the thermostat display looks perfect in any room lighting condition. The RGB backlit status light bar indicates HVAC calls. The thermostat behavior can be customized separately for day and night operating modes.

Using Crestron Toolbox™ software, the Thermostat Configuration Tool can be used to create a thermostat configuration, retrieve logs, and test relays. It can be used to load the configuration onto one or more thermostats at the same time. If a person is onsite, they can accept the transfer of a new thermostat configuration that is initiated remotely.

When the HZ-THSTAT is paired with the [HZA-CONV-THSTAT-2WIRE](#) Common Wire Adapter accessory (sold separately), the thermostat can be used in installations without a common wire. The HZ-THSTAT has local temperature and humidity sensors and accommodates up to four remote temperature sensors ([CHV-RTS](#), [CHV-RSS](#), [CHVI-RTS-1G-N-W](#), and [CHVI-RTS-1G-SM-W](#), sold separately) and up to two remote temperature/humidity sensors ([CHV-RTHS](#), sold separately) for optimized performance and flexibility. The HZ-THSTAT is also compatible with 10k thermistors.

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Specifications

Measurement Range

Indoor Temperature 32° to 110°F (0° to 43°C);
Provided by local or remote temperature sensor

Outdoor Temperature -40° to 170°F (-40° to 77°C);
Provided by remote temperature sensor

NOTE: Outdoor temperature measurement is -30° to 120°F (-34° to 49°C) if thermistor sensors are used.

Temperature Tolerance ±1°F (±0.5°C)

Humidity 0% to 100% RH;
Provided by local or remote temperature sensor

Humidity Tolerance ± 5.0% RH

Setpoint Range

Auto 38° to 99°F (3° to 37°C)

Heat 38° to 89°F (3° to 32°C)

Cool 38° to 99°F (3° to 37°C)

Radiant Floor 38° to 110°F (3° to 43°C)

Humidity 5% to 90% RH

Power Requirements

Power Consumption 2.5 W @ 24VAC

Max Current per Relay 1A

Max current Across All Relays 3A

Communications

Wi-Fi® communications 802.11/b/g/n (2.4 GHz)

Controls

Up Raises the room's setpoint by 1°F, 1°C, or 0.5°C, depending on the active temperature scale

Down Lowers the room's setpoint by 1°F, 1°C, or 0.5°C, depending on the active temperature scale

Display

Type Transflective LCD, backlit

Size 3.5 in. (89 mm)

Resolution 320 x 480

Connections

C (1) Common from HVAC system 24VAC transformer

RH (1) Reference, heat calls (W1/W2)

R/RC (1) Reference, compressor/cooling calls or single reference systems (Y/Y2/G/O/B)

W (1) Heat stage 1 call

W2 (1) Heat stage 2 call

Y (1) Compressor stage 1 call

Y2 (1) Compressor stage 2 call

O Non-FCU: (1) Changeover, active in cool mode;
FCU: (1) Fan call (high)

B Non-FCU: (1) Changeover, active in non-cool modes;
FCU: (1) Fan call (medium)

G Non-FCU: (1) Fan call;
FCU: (1) Fan call (low)

HUM (1) Humidistat call

HUMR (1) Reference, humidistat call

TS1+ and TS1- (2) Remote sensor inputs, comprised of TS1+ and TS1- terminals;
For remote temperature sensors ([CHV-RTS](#), [CHVI-RTS-1G-N-W](#), and [CHVI-RTS-1G-SM-W](#)), remote slab sensor ([CHV-RSS](#)), remote temperature and humidity sensors ([CHV-RTHS](#)), and 10k thermistors (all sensors and thermistors are sold separately);
Connect up to (2) Crestron temperature sensors, (1) Crestron temperature/humidity sensor, or (1) 10k thermistor;
Can be designated as an autochangeover sensor for an FCU 2-pipe heat/cool system

NOTE: TS1+ and TS1- connections are non-polarized. The + and - designations are provided to simplify wiring.

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TS2+ and TS2-

(2) Remote sensor inputs, comprised of TS2+ and TS2- terminals;
For remote temperature sensors ([CHV-RTS](#), [CHVI-RTS-1G-N-W](#), and [CHVI-RTS-1G-SM-W](#)), remote slab sensor ([CHV-RSS](#)), remote temperature and humidity sensors ([CHV-RTHS](#)), and 10k thermistors (all sensors and thermistors are sold separately);
Connect up to (2) Crestron temperature sensors, (1) Crestron temperature/humidity sensor, or (1) 10k thermistor;
Can be designated as an autochangeover sensor for an FCU 2-pipe heat/cool system

NOTE: TS2+ and TS2- connections are non-polarized. The + and - designations are provided to simplify wiring.

USB

(1) Micro B female, USB 2.0 computer console port for firmware upload, temporary power, and device configuration

R CONNECTIONS Switch (on backplate)

R/RC ONLY

For installations with only one R connection.
Wire the R connection to the R/RC terminal.

SEPARATE

For installations with separate RC and RH connections.
Wire the RC connection to the R/RC terminal and the RH connection to the RH terminal.

Sensors

Ambient Light

Determines Day and Night mode, and sets auto dimming range for display and LED backlight

Proximity

Backlight intensity is user adjustable
Day: More sensitive
Night: Less sensitive

Environmental

Temperature

32° to 104°F (0° to 40°C)

Humidity

10% to 95% RH (noncondensing)

Construction

Housing

Plastic, surface-mountable to the front of a horizontally-oriented 1-gang electrical box

Electrical Box Mounting (Preferred)

Mountable to a horizontal US-style, 1-gang new or old work electrical box with two mounting screws (included)

Surface Mounting

Mountable to dry wall with two anchors (included)

Cutout template provided

Mounting Depth

1.50 in. (38 mm)

Dimensions

Height

3.52 in. (89 mm)

Width

4.90 in. (124 mm)

Depth

1.76 in. (45 mm) overall; 0.57 in. (14 mm) from wall surface when installed

Weight

7.81 oz (221 g)

Compliance

Regulatory Model: M201911001

FCC Part 15 Class B, IC Class B, CE, and Intertek® Listed for US and Canada

Models

HZ-THSTAT-B

Horizon® Wireless Thermostat, Black

HZ-THSTAT-W

Horizon® Wireless Thermostat, White

HZ-THSTAT-A

Horizon® Wireless Thermostat, Almond

Available Accessories

HZA-CONV-THSTAT-2WIRE

Common Wire Adapter for HZ-THSTAT

For a list of available accessories, visit the [HZ-THSTAT](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

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The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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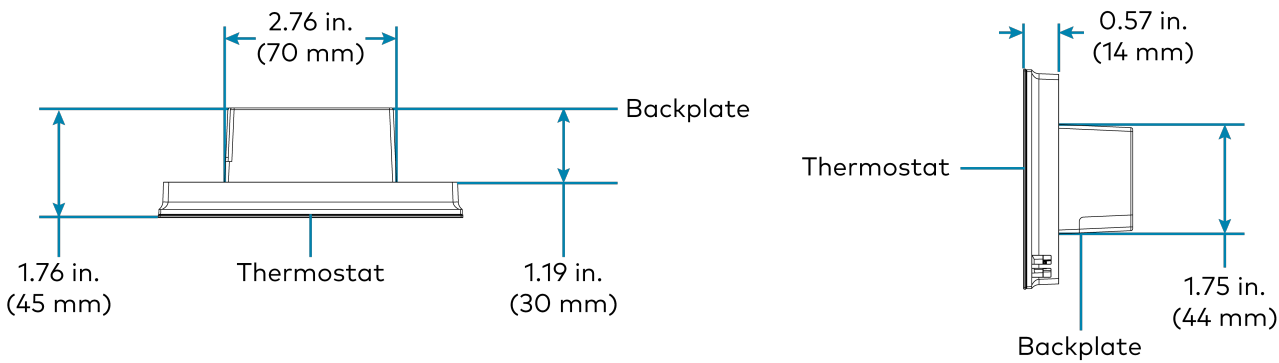
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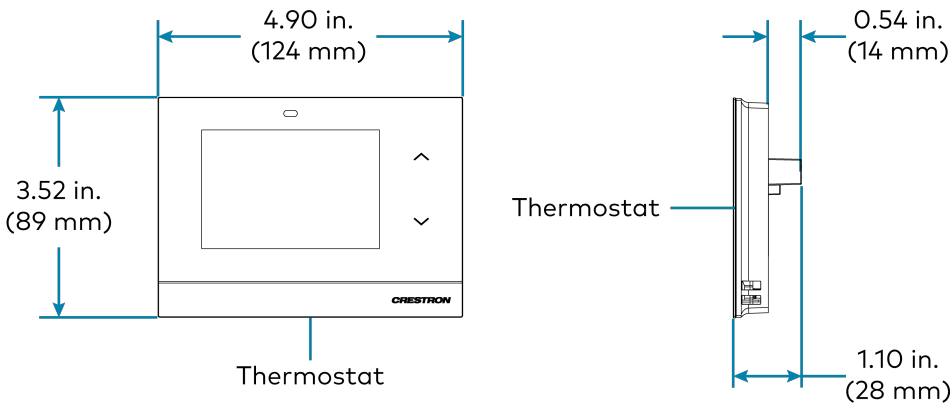
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Thermostat with Backplate Attached



Thermostat



Backplate

