

# HZ-THSTAT

## Horizon® Wireless Thermostat



- Compatible with conventional 2H/2C systems, heat pump 4H/2C systems with auxiliary heat systems, and systems with radiant flooring and humidity control
- 3.5 in. touchscreen LCD display with RGB backlit capacitive buttons
- Features a slim design that extends .57 in. (14 mm) from the wall
- Communicates via a Wi-Fi® network
- Reports the current outdoor temperature and weather conditions as well as the week's forecast
- Offers remote and batch configuration capabilities
- Utilizes built-in temperature and humidity sensors
- Supports up to four remote temperature sensors and up to two remote temperature/humidity sensors
- RGB backlit status light bar 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
- Thermostat display matches the Crestron Home interface for a familiar experience
- Available in Horizon white, black, or almond finishes

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, 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 touchscreen 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.

With Crestron Toolbox® software, the thermostat can be configured and debugged remotely, and the thermostat configurations can be saved and accessed for reference. Detailed system logging offers the opportunity to diagnose HVAC, sensor, or network issues. Several HZ-THSTAT can be configured simultaneously or one at a time.

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 (Supplied by Remote Sensor)

**Indoor Temperature** 32° to 110°F (0° to 43°C)

**Outdoor Temperature** -40° to 170°F (-40° to 77°C)

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

**Humidity** 0% to 100% RH

#### Temperature Tolerance

±1°F (±0.5°C)

#### 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** 3 W @ 24VAC

**Max Current per Relay** 1A

**Max current Across All Relays** 3A

#### Communications

**WiFi® communications** 802.11/b/g/n (2.4 GHz)

#### Buttons

**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

<b>C</b>	(1) Common from HVAC system 24VAC transformer
<b>RH</b>	(1) Reference, heat calls (W1/W2)
<b>R/RC</b>	(1) Reference, compressor/cooling calls or single reference systems (Y1/Y2/G/O/B)
<b>W</b>	(1) Heat stage 1 call
<b>W2</b>	(1) Heat stage 2 call
<b>Y</b>	(1) Compressor stage 1 call
<b>Y2</b>	(1) Compressor stage 2 call
<b>O</b>	(1) Changeover, active in cool mode
<b>B</b>	(1) Changeover, active in non-cool modes
<b>G</b>	(1) Fan call
<b>HUM</b>	(1) Humidistat call
<b>HUMR</b>	(1) Reference, humidistat calls
<b>TS1+ and TS1-</b>	(2) From remote temperature sensor ( <a href="#">CHV-RTS</a> , <a href="#">CHVI-RTS-1G-N-W</a> , and <a href="#">CHVI-RTS-1G-SM-W</a> ), remote slab sensor ( <a href="#">CHV-RSS</a> ), or remote temperature and humidity sensor ( <a href="#">CHV-RTHS</a> ). Also compatible with 10k thermistors. All sensors and thermistors are sold separately.
<b>TS2+ and TS2-</b>	(2) From remote temperature sensor ( <a href="#">CHV-RTS</a> , <a href="#">CHVI-RTS-1G-N-W</a> , and <a href="#">CHVI-RTS-1G-SM-W</a> ), remote slab sensor ( <a href="#">CHV-RSS</a> ), or remote temperature and humidity sensor ( <a href="#">CHV-RTHS</a> ). Also compatible with 10k thermistors. All sensors and thermistors are sold separately.
<b>USB</b>	(1) Micro B female, USB 2.0 computer console port for firmware upload, temporary power, and device configuration

#### R CONNECTIONS Switch (on backplate)

<b>R/RC ONLY</b>	For installations with only one R connection. Wire the R connection to the R/RC terminal.
<b>SEPARATE</b>	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.

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### Sensors

<b>Ambient Light</b>	Determines Day and Night mode, and sets auto-dimming range for display and LED backlight Backlight intensity is user adjustable
<b>Proximity</b>	Day: More sensitive Night: Less sensitive

### Environmental

<b>Temperature</b>	32° to 104°F (0° to 40°C)
<b>Humidity</b>	10% to 95% RH (non-condensing)

### Construction

<b>Housing</b>	Plastic, surface-mountable to the front of a horizontally-oriented 1-gang electrical box
<b>Surface Mounting</b>	Mountable to dry wall with two anchors (included) Cutout template provided
<b>Electrical Box Mounting</b>	Mountable to a horizontal US-style, 1-gang new or old work electrical box with two mounting screws (included)
<b>Mounting Depth</b>	1.50 in. (38 mm)

### Dimensions

<b>Height</b>	3.52 in. (89 mm)
<b>Width</b>	4.90 in. (124 mm)
<b>Depth</b>	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**

CE, FCC, IC

### 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](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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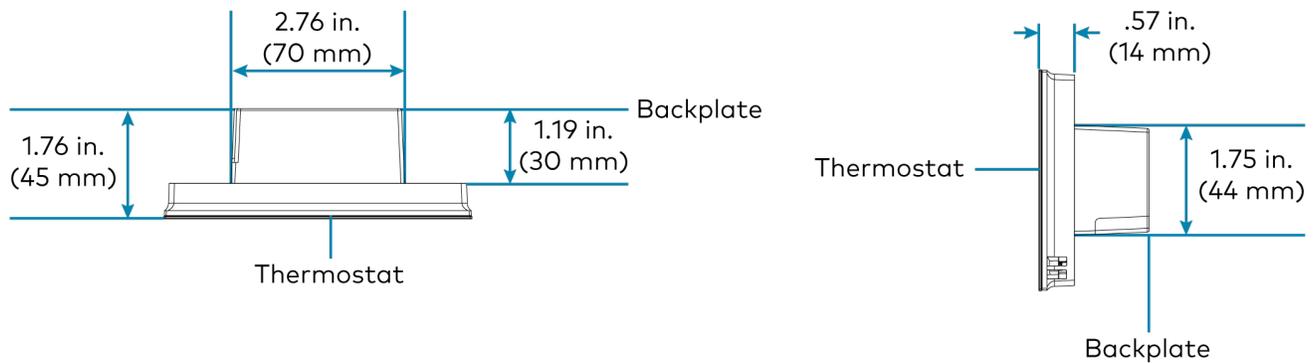
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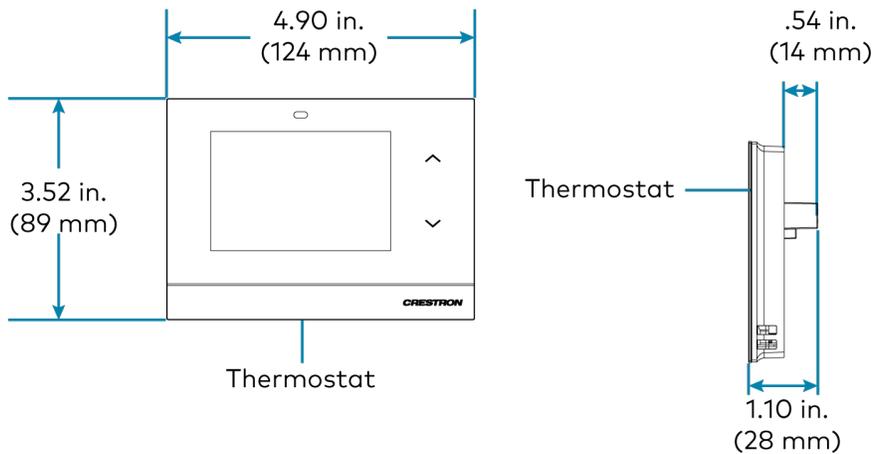
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### Thermostat with Backplate Attached



### Thermostat



### Backplate

