

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. touch screen 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 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 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.

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 thermostats 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
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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	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)
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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

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 (Y1/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	(1) Changeover, active in cool mode
B	(1) Changeover, active in non-cool modes
G	(1) Fan call
HUM	(1) Humidistat call
HUMR	(1) Reference, humidistat calls
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) temperature sensors or (1) temperature/humidity sensor.

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) temperature sensors or (1) temperature/humidity sensor.

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
Backlight intensity is user adjustable

Proximity 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

Surface Mounting Mountable to dry wall with two anchors (included)
Cutout template provided

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

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

CE, FCC, IC, 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

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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.

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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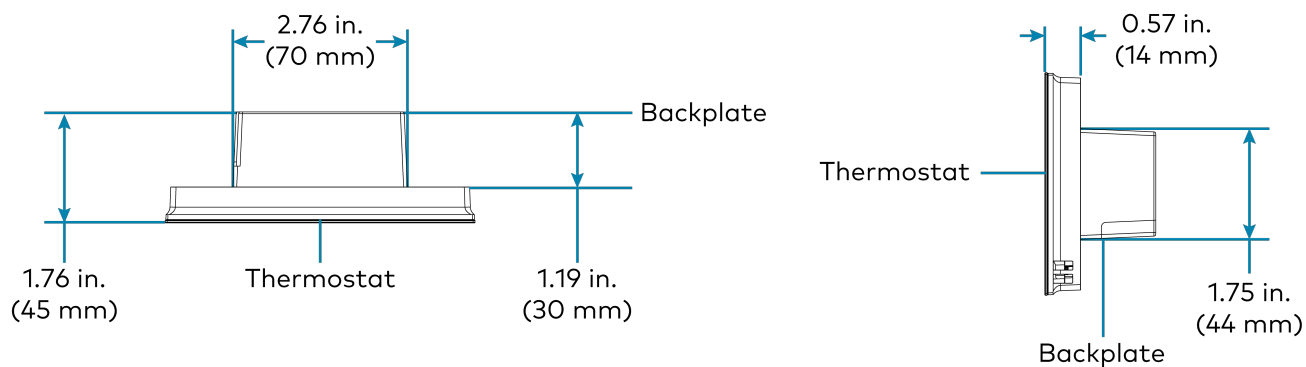
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Rev 12/20/23

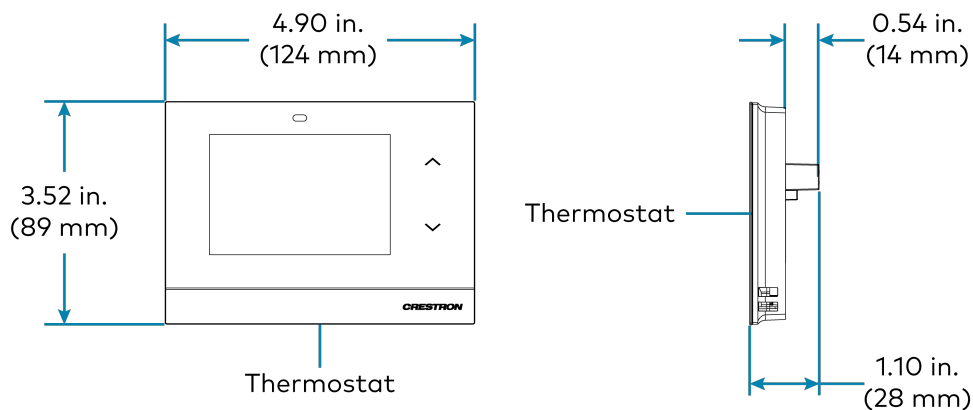
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Thermostat with Backplate Attached



Thermostat



Backplate

