

Prestige[®] IAQ and Prestige[®] 2.0 Thermostats

SUBMITTAL SHEET

APPLICATION

The Prestige IAQ and Prestige 2.0 are 7-Day programmable thermostats with auto changeover that are designed for single stage and multistage control of conventional and heat pump equipment such as rooftop units and split systems in residential and commercial applications. The thermostats control up to 3 heat / 4 cool conventional systems and up to 4 heat / 2 cool heat pump systems. The thermostat controls humidification, dehumidification, ventilation, an economizer and a lighting panel. Prestige IAQ has universal sensor inputs that are used with remote indoor air temperature sensor(s), an outdoor air temperature sensor, a discharge air temperature sensor, a return air temperature sensor, an occupancy sensor for remote setback and dry contact devices for displaying alerts.

- The thermostats are equipped with a 16:9 touchscreen TFT color display (WQVGA - 480 x 272 pixels).
- Provides a USB port to upload Dealer Information, Custom Reminders, Custom Event Schedules, Holiday Schedule and Software Updates* and to download Data Logs.
- Provides remote access to the thermostat when used with the RedLINK internet gateway.
- Provides control using optional remote temperature and humidity sensors.
- Prestige IAQ integrates with the Niagara-AX framework.

* Software Updates only applies to Prestige IAQ.

SPECIFICATIONS

Terminal Designations:

Equipment Interface Module: R, RC, RH, C, W-O/B, W2-AUX 1, W3-AUX 2, Y, Y2, G, A-L/A, U1 U1, U2 U2, U3 U3, S1 S1, S2 S2, S3 S3, S4 S4, A, B, C, D

THX9421 Thermostat: R, C

THX9321 Thermostat: R, RC, C, W-O/B, W2-AUX/E, Y, Y2, G, A-L/A, K, U1 U1, U2 U2

Electrical Ratings (for THX9321 and Equipment Interface Module):

Terminal	Voltage (50/60 Hz)	Max. Current Rating
W - O/B	18 to 30 VAC and 750 mVDC	1.00A
Y (cooling)	18 to 30 VAC	1.00A
G (fan)	18 to 30 VAC	0.50A
W2 - Aux 1 (heating)	18 to 30 VAC	0.60A
W3 - Aux 2 (heating)	18 to 30 VAC	0.60A
Y2 (cooling)	18 to 30 VAC	0.60A
A-L/A (Output)	18 to 30 VAC	1.00A
(U1, U1), (U2, U2), (U3, U3)	18 to 30 VAC	0.50A

Power Consumption of THX9421/THX9321 Thermostat:

Full brightness = 3.0 VA

1/2 brightness = 2.1 VA

Backlight off = 1.9 VA

Power Consumption of Equipment Interface Module: 2.0 VA

RedLINK Communication:

Frequency: 900 Mhz frequency range

Re-Sync Time: RedLINK devices re-establish communication within 6 minutes after AC power resumes.

Temperature Setting Range:

Heating: 40 to 90 °F (4.5 to 32 °C)

Cooling: 50 to 99 °F (10 to 37 °C)

Temperature Sensor Accuracy:

± 1.5 °F at 70 °F (0.75 °C at 21.0 °C)

Humidification Setting Range: 10% to 60% RH

Dehumidification Setting Range: 40% to 80% RH

Humidity Display Range: 0% to 99%

Humidity Sensor Accuracy:

± 5% RH from 30% to 50% RH at 75 °F (24 °C)

Cool Indication:

Displays "Cool On" when the thermostat turns the cooling on.

Job Name _____
 Engineer _____
 Mechanical Contractor _____
 Contractor's P.O. No. _____
 Representative _____
 Notes _____

Model(s)	Qty.	Qty.
THX9421R5021WW	_____	THX9421R5021WG _____
THX9421R5021BB	_____	THX9321R5030 _____
THX9421R5021SG	_____	THM5421R1021 _____

Approval _____
 Service _____
 Tag No. _____



SPECIFICATIONS (CONTINUED)

Heat Indication:

Displays "Heat On" when the thermostat turns the heating on.

Auxiliary Heat Indication:

Displays "Auxiliary Heat On" when the thermostat turns the auxiliary heat on.

Interstage Differential:

Comfort: The thermostat keeps the indoor temperature within 1 degree of the setpoint (droop less control). The thermostat turns on stage 2 when the capacity on stage 1 reaches 90%.

When the interstage differential is set to 1.0 or higher, the thermostat stages the equipment based on how far the indoor temperature is from the setpoint.

Clock Accuracy:

± 1 minute per month at 77 °F (25 °C). ± 2 minutes per month over the operating ambient temperature range.

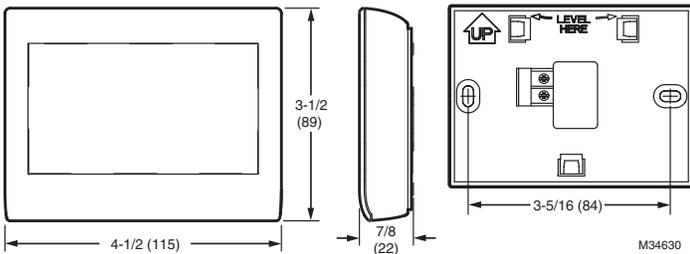
Mounting Means:

Thermostat mounts directly on the wall in the living space using mounting screws and anchors provided. Fits a horizontal 2 x 4 in. junction box. Use a cover plate and its mounting bracket to mount the thermostat onto a vertical 2 x 4 in. junction box.

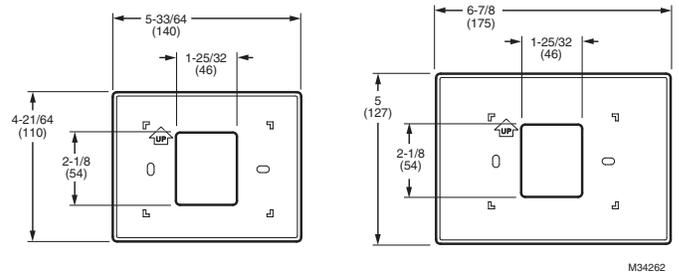
Equipment Interface Module (EIM) mounts on HVAC equipment or on a wall in the equipment room.

Product	Part Number	Operating Ambient Temperature	Operating Relative Humidity	Shipping Temperature	Physical Dimensions in in. (mm)	Color(s)
Thermostat	THX9421R5021WW	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	4-1/2 x 3-1/2 x 7/8 (115 x 88 x 22)	Front-White, Side-White
	THX9421R5021BB	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	4-1/2 x 3-1/2 x 7/8 (115 x 88 x 22)	Front-Black, Side-Black
	THX9421R5021SG	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	4-1/2 x 3-1/2 x 7/8 (115 x 88 x 22)	Front-Silver, Side-Gray
	THX9421R5021WG	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	4-1/2 x 3-1/2 x 7/8 (115 x 88 x 22)	Front-White, Side-Gray
	THX9321R5030	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	6-13/16 x 3-7/8 x 1-7/16 (173 x 99 x 36)	Arctic White
Equipment Interface Module	THM5421R1021	-40 to 165 °F (-40 to 73.9 °C)	5% to 95% Non-Condensing	-20 to 165 °F (-28.9 to 73.9 °C)	9-11/32 x 4-53/64 x 1-19/32 (237 x 123 x 41)	Gray

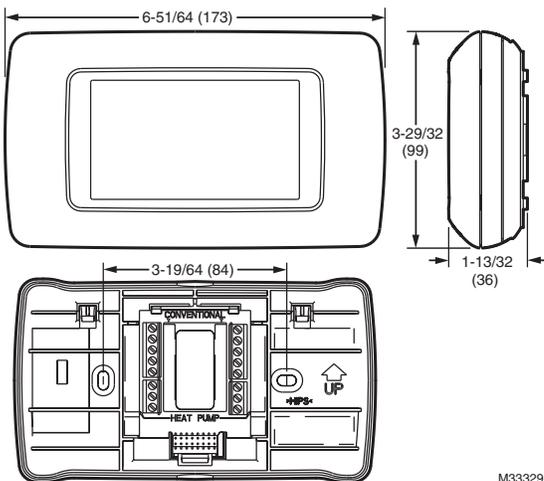
Dimensions of THX9421 Prestige IAQ thermostat in in. (mm).



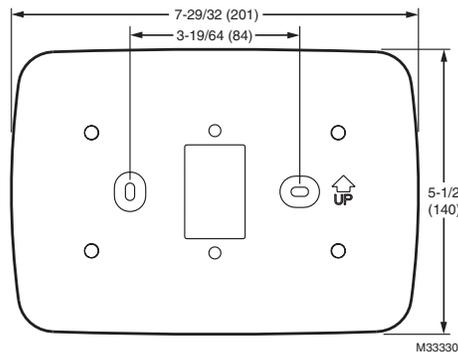
Dimensions of THX9421 Prestige IAQ cover plates in in. (mm).



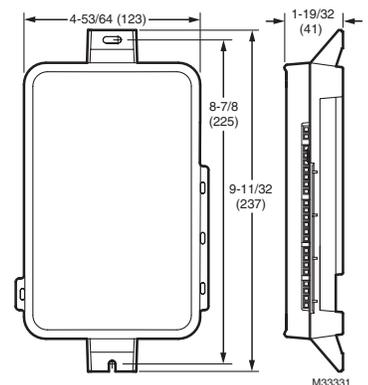
Dimensions of THX9321 Prestige 2.0 thermostat in in. (mm).



Dimensions of THX9321 Prestige 2.0 cover plate in in. (mm).



Dimensions of Equipment Interface Module in in. (mm).



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 Honeywell International Inc.
 1985 Douglas Drive North
 Golden Valley, MN 55422
 customer.honeywell.com

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