

Z-Wave Touch Screen Programmable Thermostat



VisionPRO Z-Wave offers you top-of-the-line features like touchscreen interaction, a real-time clock, and a large, easy-to-read backlit display.

Color: Premier White®

Changeover: Auto or Manual

Electrical Ratings: 18 to 30 Vac

Product Number	Programmability	Terminal Designations
YTH8320ZW1007/U	Universal Programming from 7 Day to Non-Programmable	R, RC, C, W-O/B, W2-E/Aux, Y, Y2, G, L, K, S1, S2

VisionPRO® IAQ Total Home Comfort System



The VisionPRO IAQ touchscreen universal programmable thermostat provides electronic control of 24 Vac heating and cooling systems in addition to humidification, dehumidification and ventilation all with just 3 wires to the thermostat.

- Advanced dual-fuel control
- Three wires to the living space allows for easy equipment upgrade without having to run additional thermostat wire
- Thermostat connects with Equipment Interface Module or EnviraZONE panel to control temperature, humidification, dehumidification and ventilation from a single point in the home
- Automatically raises humidity levels throughout all rooms in the home, moisturizing air to prevent symptoms of dryness and to protect hardwood flooring and woodwork
- Removes air pollutants by exchanging the stale air in a house with fresh, filtered air better than having an open window

Dimensions, Approximate: 4 9/16 in. high x 6 in. wide x 1 1/4 in. deep (116 mm x 152 mm x 32 mm)

Color: Premier White®

Programmability: 7 Day Multiple Day Programming or Non-Programmable

Changeover: Auto/Manual Selectable

Electrical Ratings: THM5421 is rated 20 to 30 Vac

Humidity Setting Range: Dehumid.: 40 to 80% RH, Humid.: 10 to 60% RH

Operating Humidity Range (% RH): 5 to 90% RH, non-condensing

Temperature Setting Range: Cooling: 60 F to 99 F (15 C to 37 C), Heating: 40 F to 90 F (4.5 C to 32 C)

Differential Temperature: ± 1 F (±0.5 C)

Power Method: Communicating

Sensor Element: Thermistor

Switch Type: Yes, optional

Outdoor Sensor: Yes, optional

Remote Sensor: Yes, optional

Comments: Includes Humidification Control with or without Frost Protection, Dehumidification using Whole House Dehumidifier or Air Conditioning with High or Low speed fan, Advanced Patented Ventilation Control and Advanced Dual Fuel Heat Pump Control

Accessories:

32003796-001-Premier White® cover plate 7 7/8 in. x 5 1/2 in. (200 mm x 140 mm)

C7089U1006-Remote Outdoor Sensor

C7189U1005-Remote Indoor Sensor

Product Number	Application	Stages	Display Size	Mounting	Switch Positions		Terminal Designations	Used With	Includes
					System	Fan			
TH9421C1004/U	Conventional and Heat Pump systems	Up to 3 Heat/2 Cool Conventional; Up to 4 Heat/2 Cool Heat Pump	10 sq in.	Horizontal	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC	1, 2, 3	THM5421C1008 Equipment Interface Module	Thermostat only
THM5421C1008/U	Heat/Cool or Heat Pump with Auxiliary Heat	Up to 3 Heat/2 Cool Conventional; Up to 4 Heat/2 Cool Heat Pump	—	Vertical	—	—	1, 2, 3, C, R, Rc, Rh, R, W1-O/B, W2-Aux, W3-Aux2, Y, Y2, G, L, Out1, Out2, In1, In2, Dats1, Dats2, Hum1, Hum2, Dh1, Dh2, Vnt1, Vnt2	TH9421 VisionPRO IAQ Thermostat	Equipment Interface Module Only
YTH9421C1002/U	Heat/Cool or Heat Pump with Auxiliary Heat	Up to 3 Heat/2 Cool Conventional Up to 4 Heat/2 Cool Heat Pump	10 sq in.	Horizontal	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC	1, 2, 3, C, R, Rc, Rh, R, W1-O/B, W2-Aux, W3-Aux2, Y, Y2, G, L, Out1, Out2, In1, In2, Dats1, Dats2, Hum1, Hum2, Dh1, Dh2, Vnt1, Vnt2	—	TH9421C1004 Thermostat and THM5421C1008 Equipment Interface Module
YTH9421C1010/U	Heat/Cool or Heat Pump with Auxiliary Heat	Up to 3 Heat/2 Cool Conventional Up to 4 Heat/2 Cool Heat Pump	10 sq in.	Horizontal	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC	1, 2, 3, C, R, Rc, Rh, R, W1-O/B, W2-Aux, W3-Aux2, Y, Y2, G, L, Out1, Out2, In1, In2, Dats1, Dats2, Hum1, Hum2, Dh1, Dh2, Vnt1, Vnt2	—	TH9421C1004 Thermostat, THM5421C1008 Equipment Interface Module and C7089U1006 Outdoor Temperature Sensor