



VisionPRO® 8000 Smart Thermostat

FOR RESIDENTIAL OR LIGHT COMMERCIAL APPLICATIONS

SUBMITTAL SHEET

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

Model(s)			
TH8321WF1001	Qty.		Notes
Approval			
Service			
Tag No.			

APPLICATION

VisionPRO® 8000 Smart Thermostat allows remote access through a smartphone, tablet or computer. It controls up to 3H/2C heat pump or dual fuel systems and up to 2H/2C conventional systems. Thermostat is selectable for residential or light commercial applications. The thermostat has a relay to control humidification, humidification or ventilation.

- The thermostat is equipped with a touchscreen display with a 2-line message center.
- Provides remote access through smartphone, tablet or computer when connected to Wi-Fi and registered to mytotalcomfort.com
- Provides compressor lockout in heat pump system with aux heat (electric or dual fuel). Provides lockout temperatures for auxiliary heat in heat pump system with electric aux heat. (Lockouts require a wired outdoor sensor or outdoor information from the cloud with thermostat connected to Wi-Fi and registered).

SPECIFICATIONS

Terminal Designations:

TH8321WF Thermostat: R, RC, S C, W-O/B, W2-AUX/E, Y, Y2, G, A-L/A, K, U1 U1, S1 S1

Electrical Ratings:

Terminal	Voltage (50/60Hz)	Max. Current Rating
W - O/B	18 to 30 VAC	1.00A
Y (cooling)	18 to 30 VAC	1.00A
G (fan)	18 to 30 VAC	0.50A
W2 - Aux/E	18 to 30 VAC	0.60A
Y2 (Cooling)	18 to 30 VAC	0.60A
A-LA (Output)	18 to 30 VAC	1.00A
U1, U1	18 to 30 VAC	0.50A

Power Consumption of TH8321WF Thermostat:

Backlight on: 2.35 VA
Backlight off: 1.40 VA

Wi-Fi Communication Requirements:

802.11 b/g/n routers
Android or IOS Smartphone, tablet or device

Temperature Setting Range:

(Adjustable high limit for heat. Adjustable low limit for cool.)
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.

Heat Indication:

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

Auxiliary Heat Indication:

Displays "Aux 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.

Economizer:

Economizer output and FDD economizer fault input.

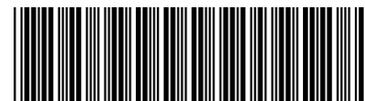
Clock Accuracy:

If not connected to Wi-Fi: 1 minute per month at 77 °F (25 °C), ± 2 minutes per month over the operating ambient temperature range.

If connected to Wi-Fi and registered to Total Connect Comfort: the current time is synced via the Internet.

Mounting Means:

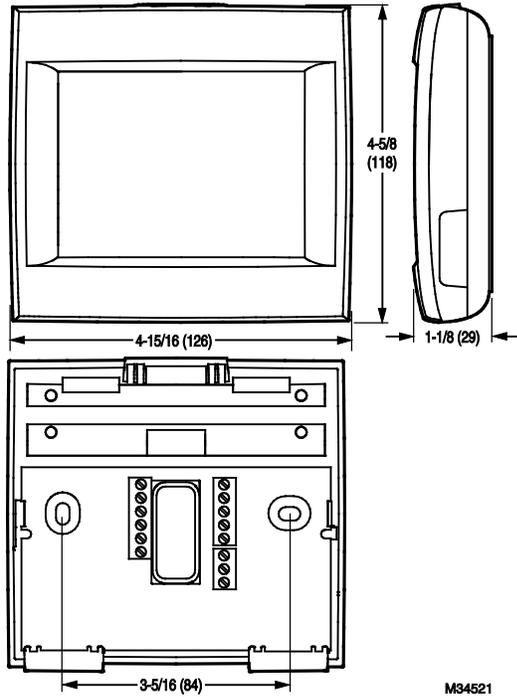
Thermostat mounts directly on the wall in the living space using mounting screws and anchors provided. Fits a horizontal 2 x 4 in. junction box. Use a cover plate and its mounting bracket to mount the thermostat onto a vertical 2 x 4 in. junction box.



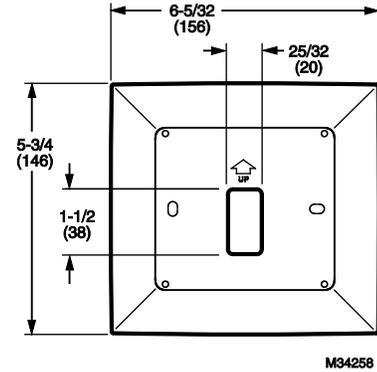
33-00072-03

Product	Part Number	Operating Ambient Temperature	Operating Relative Humidity	Shipping Temperature	Physical Dimensions in Inches (mm)	Color(s)
Thermostat	TH8321WF1001	32 to 120 °F (0 to 48.9 °C)	5% to 90% Non-Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	4-15/16 x 4-5/8 x 1-1/8 (126 x 118 x 29)	Arctic White

Dimensions of thermostat in in. (mm).



Dimensions of VisionPRO cover plate in in. (mm).



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1985 Douglas Drive North, Golden Valley, MN 55422
1-800-468-1502
33-00072—03 M.S. Rev. 04-20 | Printed in United States

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