701i

Installation Tips

Wall Installation

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation. Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

Do not install thermostat in locations:

- Close to hot or cold air ducts
- · That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes

Thermostat Application Guide

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (With Aux. or Emergency Heat)	No
Multi-Stage Systems	No
Heat Only Systems	Yes
Cool Only Systems	Yes
Millivolt	No

Power Type

Hardwire (24V Common Wire)

A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Una version en espanol de este manual se puede descargar en la pagina web de la compania.

WIFI

Page

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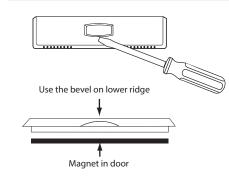
4

5-6

7-8

Frequency Range	2.4 Ghz ISM radio band
WIFI Module	Supporting 802.11
	B/G/N Standards

Removing The Private Label Badge



Gently slide a screwdriver into the bottom edge of the badge. Gently turn the screwdriver counter clockwise. The badge is held on by a magnet in the well of the battery door. The badge should pry off easily. DO NOT USE FORCE.

All of our thermostats use the same universal magnetic badge. Visit the company website to learn more about our free private label program.

WIFI Setup **Specifications**

Wiring

Table of Contents

Subbase Installation

Technician Setup

Thermostat Quick Reference

Specifications

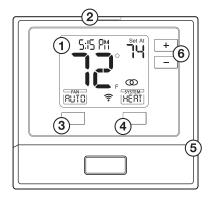
Installation Tips

The display range of temperature . The control range of temperature.. 41°F to 95°F (5°C to 35°C) 44°F to 90°F (7°C to 32°C) .1 amp per terminal, 1.5 amp Load rating. maximum all terminals combined Display Accuracy.....Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0° Cooling is adjustable from 0.2° to 2.0° 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire. 500 mA 32°F to +105°F (0°C to +41°C) Power source. Operating ambient. Operating humidity Dimensions of thermostat 90% non-condensing maximum . 4.7"W x 4.4"H x 0.9"D

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Rev. 1918

Thermostat Quick Reference



Top text field used in

programming, will _also show time of day when a schedule pro-

gram is being used.

Indicates the

current room

temperature.

Bottom left text field used in

programming and hold functions. Will also show current fan setting.

- (1) LCD
- (2) Glow in the dark light button
- **(3**)Fan button
- (4) System button

Set At

COOL ON

HEAT ON

0

-SYSTEM-

NATURANIAN NATURANIAN

WIFI signal

strength

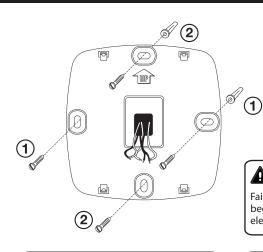
| 1771 | 1771 **-** 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 |

-FAN

Fan Indicator

- (5) Easy change battery door
- $oldsymbol{(6)}$ Temperature setpoint buttons

Subbase Installation



1 Horizontal Mount

For horizontal mount put one screw on the left and one screw on the right.

2 Vertical Mount

For vertical mount put one screw on the top and one screw on the bottom.

Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Displays the user selectable setpoint

Indicates mode of system running. (Flashing indicates 5 min compressor delay).

WIFI Connection Indicator

temperature.

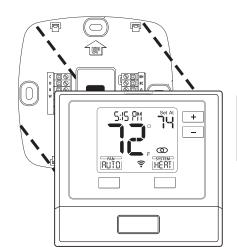
Bottom right text field used in programming and hold functions. Will also show current system setting.

NOTE: To insure solid fit between themerostat and subbase:

- 1. Mount subbase on a flat wall
- 2. Use provided screws.
- 3. Insure drywall archors are flush with wall.
- 4. Push wires into wall.

All of our products are mercury free. can give you instructions on recycling and

Mount Thermostat



Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.

Mercury Notice

However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority proper disposal.

Wiring

⚠ Power Supply

Factory-installed jumper, remove only when installing on 2-installer system.

Use either O or B terminals for changeover value.

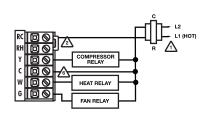
 $\stackrel{\frown}{A}$ Use a small piece of wire (not included) to connect W and Y terminals.

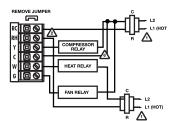
Set fan operation to electric

A 24 VAC 500mA common connection is required with this thermostat.

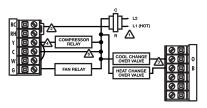
Typical 1H/1C system: 1 transformer

Typical 1H/1C system: 2 transformers

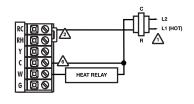




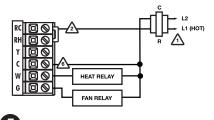
Typical 1H/1C heat pump system

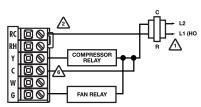


Typical heat only systems w/o fan



<u>Typical heat only system</u> <u>Typical cool-only system</u>





Wiring

Replacement Thermostat Wiring

- 1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the G terminal.
- Loosen the terminal block screws. Insert wires then retighten terminal block screws.
- **3.** Place nonflammable insulation into wall opening to prevent drafts.
- **4.** This thermostat requires a 24V common wire to the C terminal.

Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.



Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.

Installation Tip Max Torque = 6in-lbs.

Do not overtighten terminal block screws, as this can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues.

Wiring Chart

For all systems, the following terminals are wired according to whether you have a single or dual transformer system as shown:

	RH	RC	C	G
SINGLE TRANSFORMER SYSTEM	24 VAC HOT JUMPER SHOULD REMAIN INSTALLED		24 VAC Common 500mA	Blower / Fan
DUAL TRANSFORMER SYSTEM	24 VAC-Heat *REMOVE PROVIDED JUMPER	24 VAC-Cool *REMOVE PROVIDED JUMPER	24 VAC Common 500mA *FROM COOL TRANSFORMER	Blower / Fan

*FAILURE TO REMOVE PROVIDED JUMPER ON DUAL TRANSFORMER INSTALLATIONS COULD CAUSE SEVERE DAMAGE TO HVAC SYSTEMS

0 Terminal	Heat pump changeover valve Energized during cooling	
B Terminal	Heat pump changeover valve Energized during heating	

Note: Devices such as a float switch that mechanically break circuits should be installed so that they break the control wire (Y) not the power (R). Interrupting the power circuit will shut off power to the thermostat completely and not allow it to operate.

If using in Heat Pump without Auxiliary or Emergency heat application, please see wiring diagram on previous page.



Technician Setup Menu

To enter tech setup:

- 1. Press and hold the + and buttons for 3 seconds.
- 2. Press TECH button at lower left.
- **3.** Configure the installer options as desired using the table below. Use the + or buttons to change settings and the PREV and NEXT buttons to move from one step to another.
- 4. To exit tech setup: press and hold the + and buttons for 3 seconds, or wait 20 seconds.

LCD Will Show Adjustment Options Tech Setup Steps Default This feature allows the installer to You can adjust the room Room change the calibration of the room temperature display to read temperature display. For example, if the thermostat reads 70 degrees and you Temperature 1 0 4° above or below the factory Calibration calibrated reading. would like it to read 72 then select +2. The compressor short cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 might be desired to the compressor of the statement of " COMP DELRY Selecting "On" will not allow the Compressor compressor to be turned on Short Cycle 0NDisplay minutes after it was last turned off. The swing setting often called "cycle COOL SHING The cooling swing setting is adjustable rate", "differential", or "anticipation" is adjustable. A smaller swing setting will from 0.2° to 2°. A swing setting of Cooling 0.5° will begin cooling at approximately 0.5° above the setpoint and stop 0.5 °F Swing cause more frequent cycles and a larger swing setting will cause fewer cycles. approximately 0.5° below the setpoint. The swing setting often called "cycle rate", "differential", or "anticipation" is adjustable. A smaller swing setting will HERT SHING The heating swing setting is adjustable from 0.2° to 2°. A swing setting of Heating 0.5° will begin heating at approximately 0.5° below the setpoint and begin approximately 0.5° above the setpoint. 0.4 °F Swing cause more frequent cycles and a larger swing setting will cause fewer cycles. This feature allows you to display temperature in either Fahrenheit or Celsius. °F for Fahrenheit °F °F or °C °C for Celsius You can select either 12 or 24 hour 127248 Use the + and - key to clock setting. 12 or 24 select 12 or 24 hour 0 clock. Hour Clock DISPILIGAT The display light can be configured to AUTO "AU" - Any key ON operate 3 different ways. To come on only when the Light Key is pressed, Display ON "On" - Always ON OFF "OF" - Only light key ON **AUTO** Light when Any Key is pressed, or stay on ALL

Swing Setting Tip

Tech settings continued on next page ...

Technician Setup Menu

Tech Setup continued:

Tech Setup Steps		LCD Will Show	Adjustment Options	Default
Programmable	You can configure this thermostat to accept a programmed schedule from the mobile App, if it's WiFi communication is set up through your home network.		You can adjust the room temperature display to read 4° above or below the factory calibrated reading.	OFF
System Set	You can configure the system for your particular application. HEAT-OFF-COOL HEAT-OFF COOL-OFF	SYS MODE PREV NEXT	Selecting "On" will not allow the compressor to be turned on	Heat Off Cool
Fan Operation	Select GAS for systems that control the fan during a call for heat. Select ELEC to have the thermostat control the fan duringa call for heat. Select OFF to have no appearance or control of the fan.	FRN OPER 55 PREV NEXT	GAS - "GS", ELE - "EL", OFF - "OF" OFF is available if heat only was selected in previous step.	GAS

Operation of fan button & button when connected to WIFI and running a programmed schedule from the app.

When the set at temperature is changed while an app schedule is running, the thermostat will enter a temporary hold, and the Fan and System buttons change to RUN and HOLD for 5 seconds. If you wish to enter PERMANENT HOLD press the HOLD button at this time.

If you don't press the HOLD button within the 5 seconds, it will remain in temporary hold for 4 hours.

When connected to WIFI you may also have the ability to turn programming ON or OFF by pressing and holding the FAN button for 3 seconds, while the FAN BOX appears.

WIFI Setup

These WIFI Technician steps used for information and trouble-shooting. They are not used for installation or initial setup.

Follow these steps to enter the WIFI-technical information menu.

- 1. Press and hold the + and buttons for 3 seconds.
- **2.** Press WIFI button at lower right.
- **3.** Top of display will show: "WIFI NOTOK" if NOT connected to WIFI. "WIFI OK" if connected to WIFI.
- 4. If NEXT button is pressed, top of the display will show the firmware and software versions that are installed on the thermostat. You can scroll through them with the + and - buttons.
- 5. If NEXT button is pressed again, top of display will show the SSID# of the thermostat. if NEXT is pressed again, you will return to step 4.

The only normal function you would use this step for would be to RESET WIFI provisioning. For example: If you replaced your home WIFI router and need to connect via a different network.

Follow these steps to enter the WIFI-technical information menu.

- 1. Go through steps 1 and 2 from the WIFI menu at left.
- **2.** Press and hold the TECH button at lower left for 3 seconds.
- 3. Top of display will show:
- **4.** Press the **YES** button at lower left. After a 5 second countdown, the

Or press NO to exit

thermostat will reset.

"RESET WIFI"



Operation Manual Operation Manual

701i

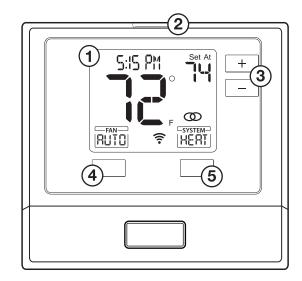
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Una version en español de este manual se puede descargar en la pagina web de la compañia.



Caution

Equipment damage hazard Do not operate the cooling system if the outdoor temperature is below 50 °F (10 °C) to prevent possible compressor damage.



- 1 LCD Display
- (2) Glow in the Dark Light Button
- **3** Temperature Setpoint Buttons
- 4) Fan/ User Button
- **5**) System/ User Button

1 LCD Display

See page 2 for details about display and read out icons.

(2) Glow in the Dark Light Button

The glow in the dark light button will self illuminate for several hours after exposure to ambient light. This button turns on the display light when pressed.

3 Temperature Setpoint Buttons

Press the + or - buttons to select the desired room temperature.

4) Fan Button:

Select **ON** or **AUTO**. **ON** will run the fan continuously. **AUTO** will run the fan only when the heating or cooling system is on.

Note: Some systems may have fan control disabled.

5) System Button:

Select the operation mode of your HVAC system. Selecting **HEAT** will put your system in heating mode. Selecting **COOL** will put your system in air conditioning mode. Selecting **OFF** turns the system off.

Top Text Field:

Used in programming, also shows Time of Day when a scheduled program is being used.

Indicates the current room temperature.

Displays the selected setpoint temperature.

Set At

Setpoint Temperature:

mode

COOL ON HEAT ON

-SYSTEM-

MANAMANAMA MANAMANAMANAMA WIFI connection indicator

Indicates system

Fan WIFI Signal Indicator Strength

TATILATI TATI • TATILATI TATILATI TATILATI TATILATI TATILATI

-FAN-

MANAZINAZINAZI NANAZINAZINAZI

Bottom Left Text Field:

Used in programming and Hold functions. Will also show current Fan setting.

Bottom Right Text Field:

Used in programming and Hold functions. Will also show current System setting.

Warranty Registration

Your new thermostat has a 5 year limited warranty. You must register your thermostat within 60 days of installation. Without this registration the warranty period will begin on date of manufacture. For warranty issues please contact the HVAC professional that installed this product. You can register your new thermostat in 2 ways:

Online

Go to the company website, select warranty registration and fill out a short registration form.

Mail

Complete the form below and mail it to the address shown.

Warranty Registration

r tarric.	
Address:	 D
City:	C
State:	Т

Nama.

Zip:

Thermostat Model: ______

Date Installed: _____

Complete form and mail to:

Thermostat Warranty Registration

P.O. Box 3377

Springfield, MO 6580

