



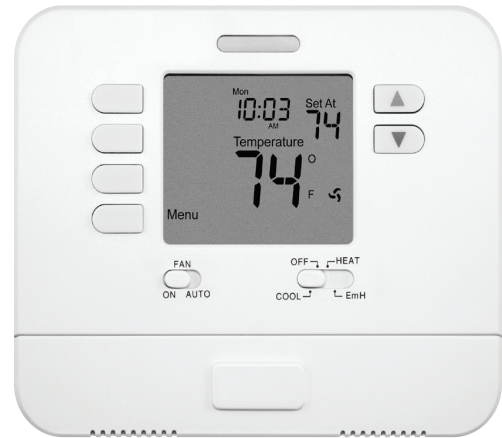
TP-N-721

VIVE Comfort

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Hours of Operation: M-F 9AM - 6PM Eastern



Thermostat Applications Guide

Description	
Gas or Oil Heat	No
Electric Furnace	No
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (with Aux. or Emergency Heat)	Yes
Multi-stage Systems	No
Heat Only Systems	No
Heat Only Systems - Floor or Wall Furnaces	No
Cool Only Systems	No
Millivolt	No

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Power Type

Battery Power

Hardwire (Common Wire)

Hardwire (Common Wire) with Battery Backup

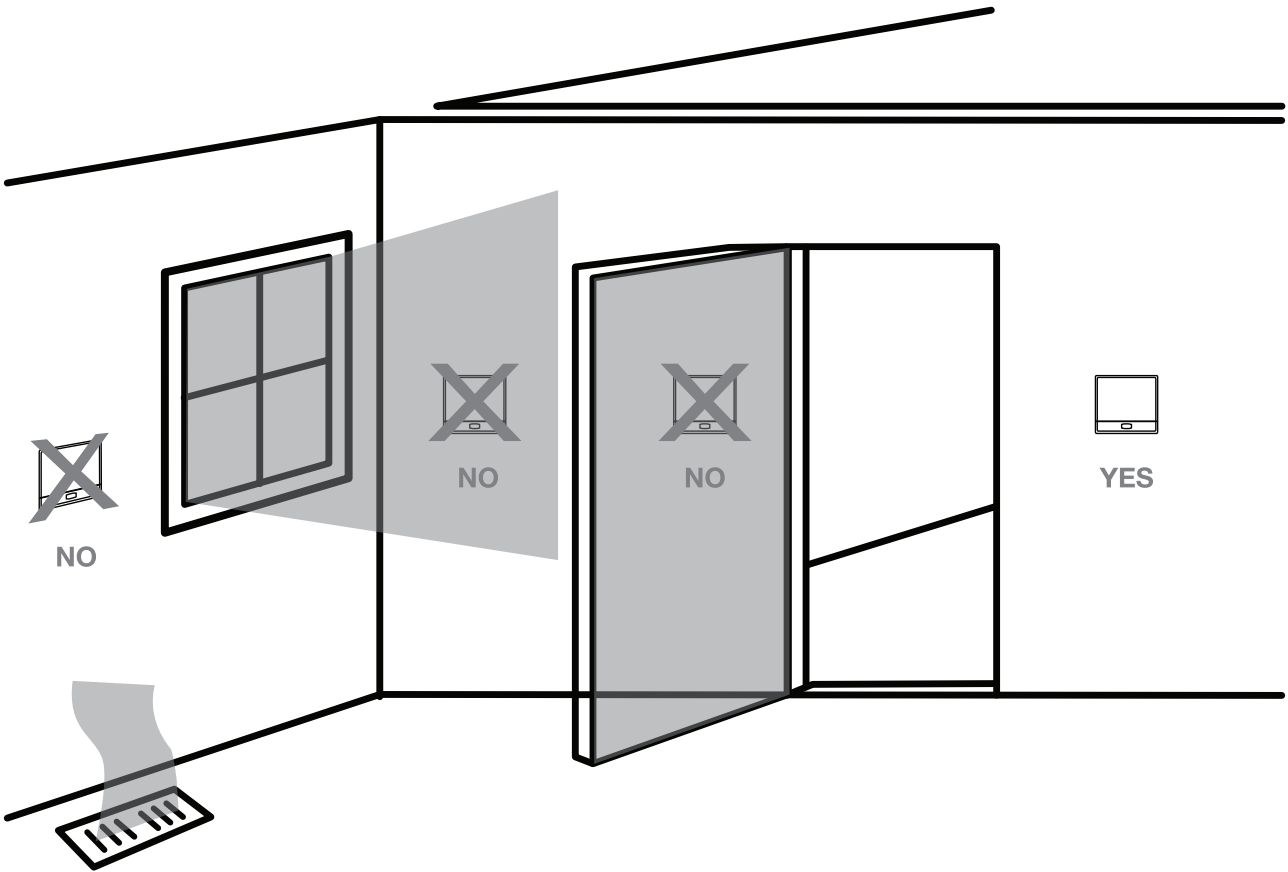
A trained, experienced technician must install this product.

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

Una versión en español de este manual se puede descargar en la página web de la compañía.

Wall locations

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.



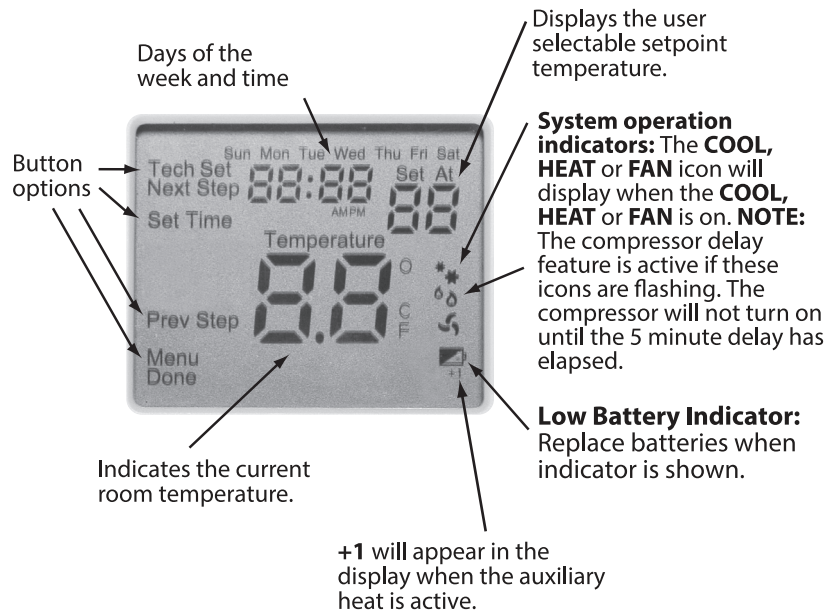
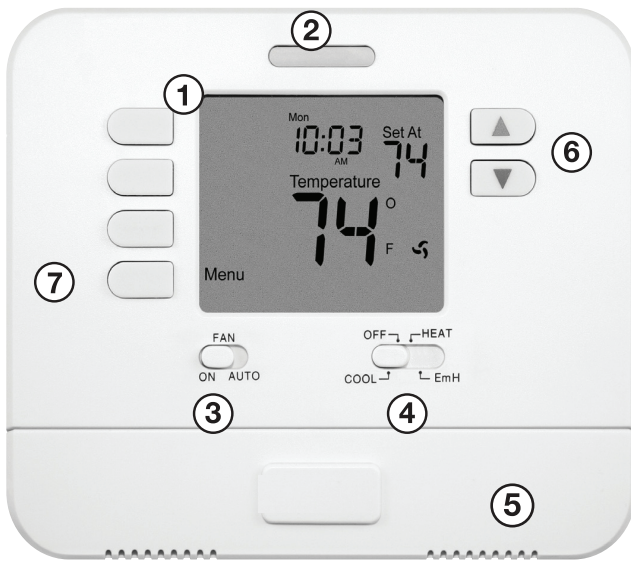
Do not install thermostat in locations:

- 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
- Where appliances could radiate heat

Installation Tip

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

Getting to know your thermostat



- ① LCD Display (pictured to the right)
- ② Glow in the Dark Light Button
- ③ Fan Switch
- ④ System Switch
- ⑤ Easy Change Battery Door
- ⑥ Temperature Setpoint Buttons
- ⑦ User Buttons



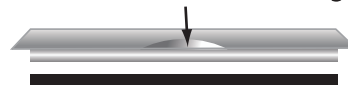
Important

The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the screen will only show the low battery indicator but maintain all functionality. If the user fails to replace the batteries after an additional 21 days (days 22-42 since first "low battery" display) the set points will change to 55°F(Heating) and 85°F(Cooling). If the user adjusts these setpoints away from these it will hold for 4 hours then return to either 55°F or 85°F. After day 42 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the battery is changed.

Removing the private label badge



Use the bevel on lower ridge



Magnet in door

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.**

About the Badge

All our thermostats use the same universal magnetic badge. Visit our website to learn more about our dealer imprinting programs.



**Caution:
Electrical Hazard**

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

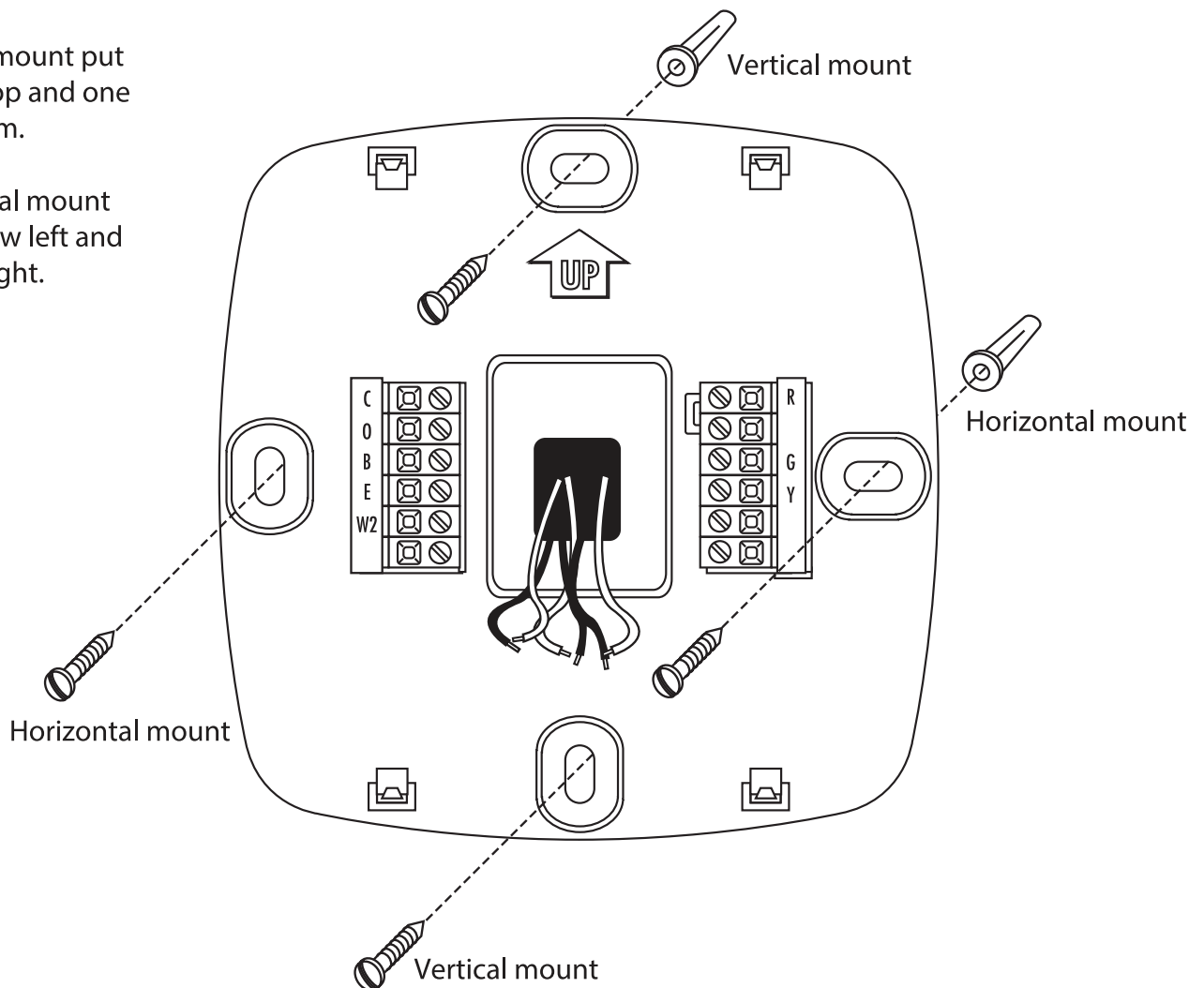


Mercury Notice:

All of our thermostats are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

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

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



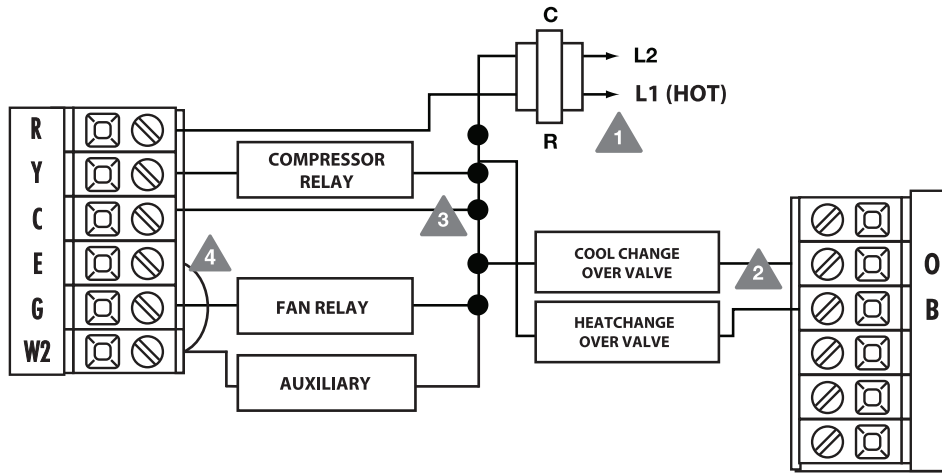
NOTE:

To insure a solid fit between the thermostat and the subbase, mount the subbase on a flat wall with the drywall anchors flush to the wall. Using the screws and drywall anchors that were provided with the new thermostat.

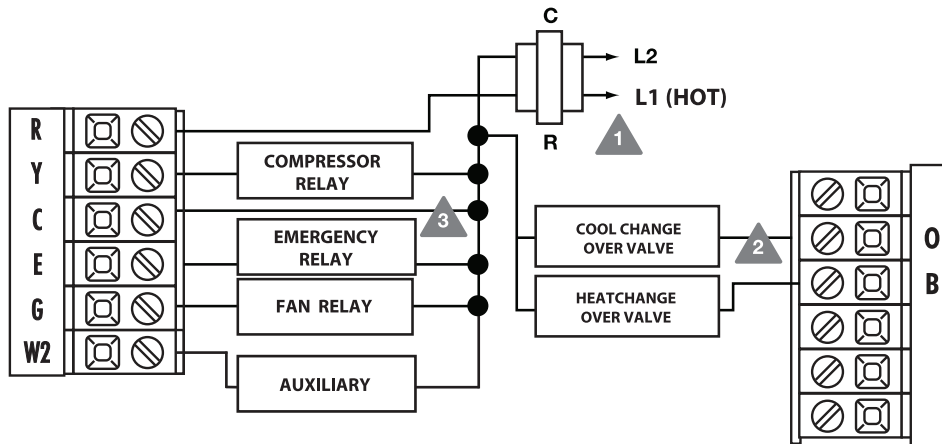
New Thermostat Installation Wiring

- ▲ 1 Power supply.
- ▲ 2 Use either O or B terminals for changeover valve.
- ▲ 3 Optional 24 VAC common connection when thermostat is used in battery power mode.
- ▲ 4 Field-supplied jumper.

Typical 2H/1C heat pump system



Typical 2H/1C heat pump system with separate emergency heat



NOTE: In many systems with no emergency heat relay a jumper can be installed between E and W2.



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.

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.
2. Loosen the terminal block screws. Insert wires then retighten terminal block screws until they are snug. Do not over-tighten.
3. Place non-flammable insulation into wall opening to prevent drafts.

Brand	24V Common	24V Hot	Changeover in Cooling	Changeover in Heating	Fan	Emergency Heat	Compressor	Auxiliary Heat	Malfunction Light
Pro1	C (optional)	R	O	B	G	E	Y	W2	None, Tape Off
Arco/Snyder	C	R	O		G	E	Y	W1	X
B.D.P.	C	R	O		G	E	Y	W1	F
Carrier	C	R	O		G	E	Y	W2	L
Coleman	BLCK	RED	V		G		Y	W2	
G.E.	B	R	O		G	X2	Y	W	
Heil-Quaker	B	R	O		G		Y	W2	
Honeywell	C	R	O	B	G	E	Y	Aux	L
Janitrol	C	R	O		G	E	Y	W2	
Lennox	X	V/VR	R		F	E	M	Y	L
Magic Chef	C	R	O		G	E	Y	W	
Rheem	X	R		B	G	E	Y	W2	L
Ruud	X	R		B	G	E	Y	W2	L
Trane	B	R	O		G	X2	Y	W	F
Weatherking	C	R	Y		G		W1	E	
Wesco	C	R	Y		G	E	W1	W2	
Westinghouse	X	R/V	O	Z	G/F	E	Y/C	W/H2	
White-Rodgers	C	R	O	B	G	E	Y	W2	L
York	B	R	O		G		Y	W	

Note: This cross reference represents typical systems and is not necessarily representative of your particular application. Always consult the original equipment manufacturer for proper installation instructions.

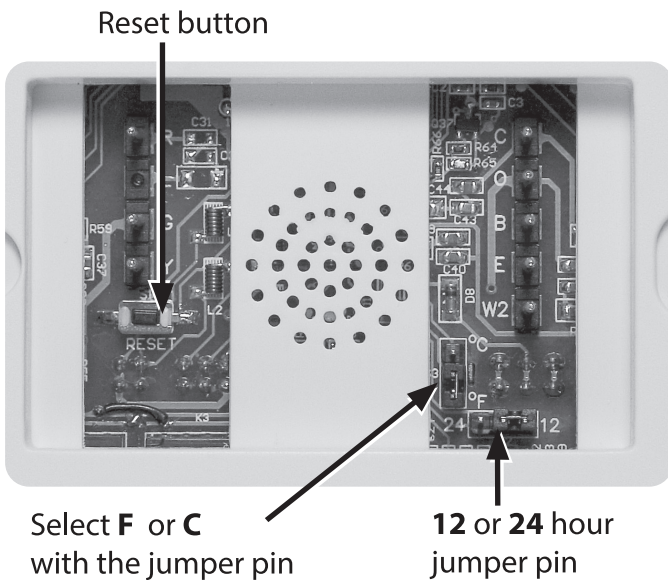
Terminal Designations

- W2 Auxiliary heat relay - Stage 2
- Y Compressor relay - Stage 1
- G Fan relay
- O Heat pump changeover valve energized in cooling
- R Transformer power

- C Common wire from system transformer
- B Heat pump changeover valve energized in heating
- E Emergency heat relay

Note:

In many systems with no emergency heat relay a jumper can be installed between **E** and **W2**.



Fahrenheit/Celsius Display

Select **F** or **C** with the jumper pin on the back of the thermostat. **F** is for Fahrenheit and **C** is for Celsius.

12 or 24 Hour Time

12 or 24 hour (military time) can be selected with the jumper pin.



Important:



The **RESET** button must be pressed after changing any switch or jumper pin setting. Batteries must be installed for this operation.






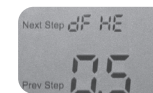
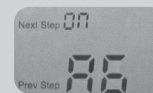
Technician Setup Menu

This thermostat has a technician setup menu for easy installer configuration. To setup the thermostat for your particular application:

1. Press **MENU** button
2. Press and hold **TECH SET** button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.

3. Configure the installer options as desired using the table below.

Use the  or  keys to change settings and the **NEXT STEP** or **PREV STEP** key to move from one step to another. **Note:** Only press **DONE** key when you want to exit the Technician Setup options.

Tech Setup Steps						
Filter Change Reminder	Room Temperature Calibration	Minimum Compressor On Time	Compressor Short Cycle Delay	Cooling Swing	Heating Swing	Gas Auxiliary for Heat Pump
This feature will flash "FILT" in the display after the elapsed run time to remind the user to change the filter. A setting of "off" will disable this feature.	This feature allows the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70° and you would like it to read 72° then select +2.	This feature allows the installer to select the minimum run time for the compressor. For example, a setting of 4 will force the compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room temperature.	The compressor short cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 minutes after it was turned off.	The swing setting often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	The swing setting often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	When on, this feature turns off the Y terminal 45 seconds after the second stage of heat turns on.
LCD Will Show						
						
Adjustment Options						
You can adjust the filter form "off" to 2000 hours of runtime in 50 hour increments.	You can adjust the room temperature display to ready -4°F to +4°F above or below the factory calibrated reading.	You can select the minimum compressor run time from "off" "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off.	Selecting "ON" will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select "off" to remove this delay.	The cooling swing setting is adjustable form $\pm 0.2^\circ\text{F}$ to $\pm 2^\circ\text{F}$. For example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the setpoint.	The heating swing setting is adjustable form $\pm 0.2^\circ\text{F}$ to $\pm 2^\circ\text{F}$. For example: A swing setting of 0.5°F will turn the heating on at approximately 0.5°F above the setpoint and turn the heating off at approximately 0.5°F below the setpoint.	Selectable on or off. This option should be "ON" for "DUAL FUEL" applications that use a gas furnace for auxiliary heat.
Factory Default Settings						
Off	0 °F	Off	On	0.8 °F	0.8 °F	Off

Swing Setting Tip

The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is .8 degrees for heating and the thermostat is set at 70°F, the first stage will turn on at approximately 69.2°F. The second stage will turn on at 68.4°F. The second stage will turn off at 69.2°F and the first will turn off at 70.8°F.

Tech Setup Steps (Continued...)

Satisfy Setpoint

This feature allows the thermostat to keep multiple stages of heat or cool energized until setpoint is satisfied.

Staging Delay

This feature allows a delay to occur when a second and third stage is needed. This allows the previous stage extra time to satisfy setpoint.

LCD Will Show



Adjustment Options

Use the or key to turn on or off.

Use the or key to select OFF, 5, 10, 15, 30, 45, 60, or 90 minutes.

Factory Default Settings

Off

Off

Set Time

Follow the steps below to set the day of the week and current time:

1. Press **MENU**
2. Press **SET TIME**
3. Day of the week will be flashing. Use the or key to select the current day of the week.
4. Press **NEXT STEP**
5. The current hour is flashing. Use the or key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
6. Press **NEXT STEP**
7. Minutes are now flashing. Use the or key to select current minutes.
8. Press **DONE** when completed

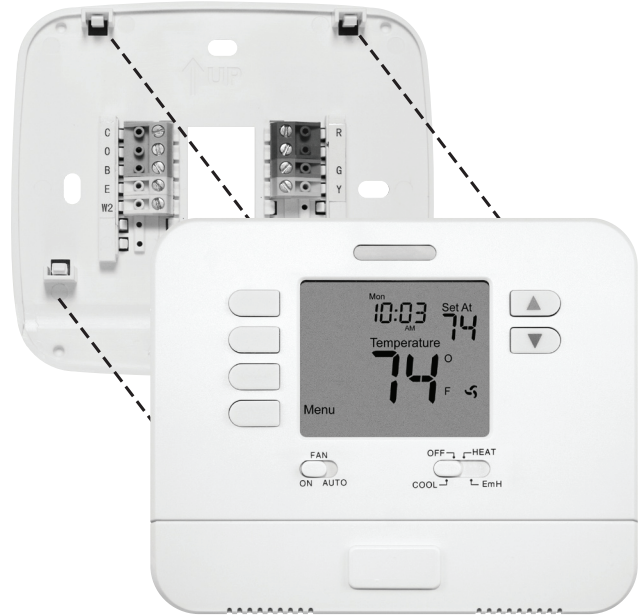
Note:

Our standard staging logic, optional satisfy setpoint and optional staging delay allows for job by job customization that balances comfort, energy efficiency and equipment longevity.

INSTALLATION MOUNT THERMOSTAT & BATTERY INSTALLATION

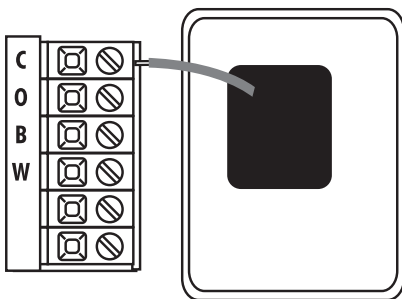
Mount Thermostat

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.



Battery Installation

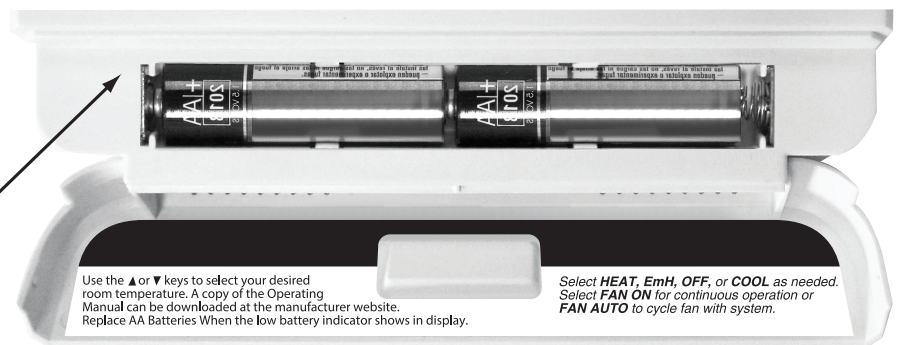
Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



Insert 2 AA Alkaline batteries (included).

Important:

High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.



Use the ▲ or ▼ keys to select your desired room temperature. A copy of the Operating Manual can be downloaded at the manufacturer website. Replace AA Batteries When the low battery indicator shows in display.

Select HEAT, EmH, OFF, or COOL as needed. Select FAN ON for continuous operation or FAN AUTO to cycle fan with system.

Simple operating instructions are found on the back of the battery door.

Filter Change Reminder

If your installing contractor has configured the thermostat to remind you when the air filter needs changed, you will see **FILT** in the display when your air filter needs changed. **FILT** will be shown in the display after your system has run long enough to require an air filter change.

Resetting the filter change reminder: When **FILT** reminder is displayed, you should change your air filter and reset the reminder by holding down the second button from the top left side of the thermostat for 3 seconds.

Hold down for 3 seconds, to reset filter reminder.



Specifications

The display range of temperature	41°F to 95°F (5°C to 35°C)
The control range of temperature	44°F to 90°F (7°C to 32°C)
Load rating	1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy	± 1 °F
Swing (cycle rate or differential)	Heating is adjustable from 0.2°F to 2.0°F Cooling is adjustable from 0.2°F to 2.0°F
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire) Battery power from 2 AA Alkaline batteries
Operating ambient	32°F to +105°F (0° to +41°C)
Operating humidity	90% non-condensing maximum
Dimensions of thermostat	4.7 "W x 4.4 "H x 0.8"D