



TP-N-731

Vive Comfort

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



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)	Yes
Multi-Stage Systems	Yes
Heat Only Systems	Yes
Heat Only Systems - Floor or Wall Furnace	Yes
Cool Only Systems	Yes
Millivolt Conventional Systems	Yes
Two Transformer Systems	No

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

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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)
 Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0°
 Cooling is adjustable from 0.2° to 2.0°
 Power source 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire
 Battery power from 2 AA Alkaline batteries
 Operating ambient 32°F to +105°F (0°C to +41°C)
 Operating humidity 90% non-condensing maximum
 Dimensions of thermostat 4.7"W x 4.4"H x 0.8"D

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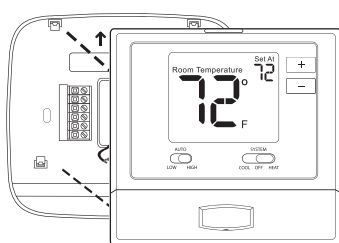
Rev. 2443

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Installation Tips

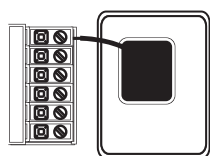
Mount Thermostat

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

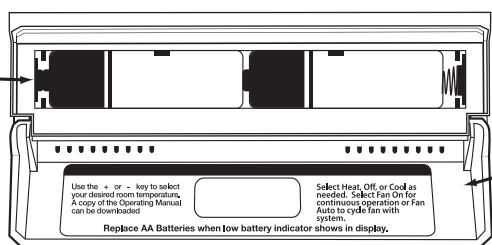
Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



Important:

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

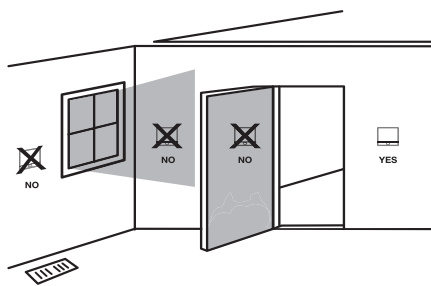
Insert 2 AA Alkaline batteries (included). High quality alkaline batteries are recommended.



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

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

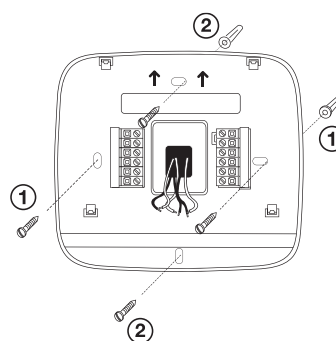


Installation Tip

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

Subbase Installation

- 1 Horizontal Mount
- 2 Vertical Mount



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



Installation Tip: Electrical Hazard

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

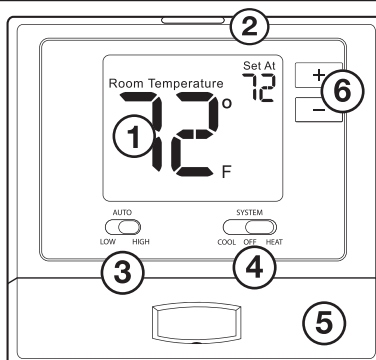


Mercury Notice

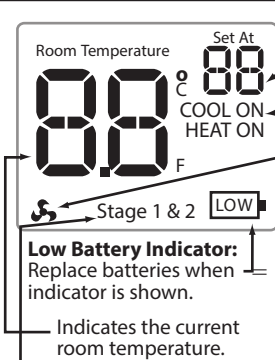
All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

Thermostat Quick Reference

Getting to know your thermostat



- 1 LCD
- 2 Glow in the dark light button
- 3 Fan switch
- 4 System switch
- 5 Easy change battery door
- 6 Temperature setpoint buttons



Stage 1 and 2 indicate the stages of HEAT that are active.

Displays the selected setpoint temperature.

System Operation Indicators:
 The COOL, HEAT, or icon will display when the COOL, HEAT, or (fan) is on.

Low Battery Indicator:
 Replace batteries when indicator is shown.

NOTE: The compressor delay feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed.

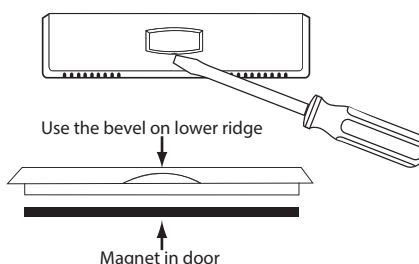


Important

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 setpoints will change to 55°F (Heating) and 85°F (Cooling). If the user adjusts the setpoint away from either of these, it will hold for 4 hours then return to either 55°F or 85°F. After day 63 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the batteries are changed.

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.**

Removing The Private Label Badge



About The Badge

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

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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.

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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.
3. Place nonflammable insulation into wall opening to prevent drafts.

Installation Tip

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.

Max Torque = 6in-lbs.

Thermostat Wiring Tips

C Terminal

The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

Wire Specifications

Use shielded or non-shielded 18-22 gauge thermostat wire.

Note:

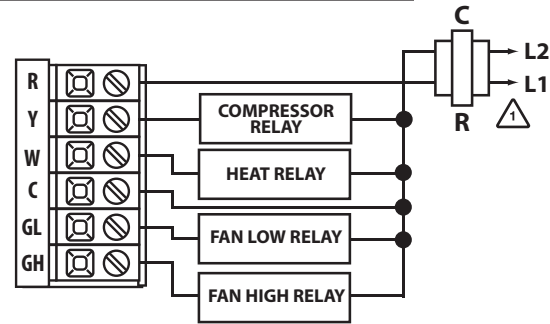
Most PTAC systems support two speed fan operation. In a single speed fan PTAC system or conventional single speed fan system, the GL terminal will be used and "I" must be selected in the Technician Setup Menu.

- 1 Power supply
- 2 The thermostat must be set to O or B to match the changeover valve, O is the cool changeover valve, B is the heat changeover valve.
- 3 The Aux. Heat Relay is energized as the second stage of heat.
- 4 Factory-supplied jumper

Terminal Designations

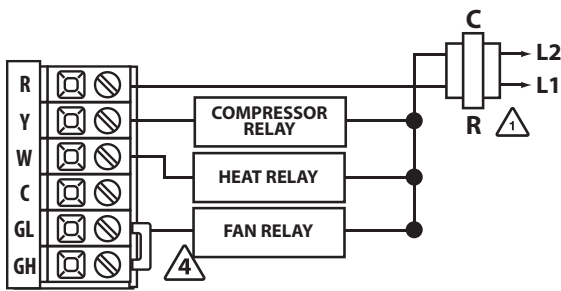
	Heat Pump System 1 HEAT 1 COOL / 2 HEAT 1 COOL	Conventional System 1 HEAT 1 COOL
R	Transformer Power	Transformer Power
C	Transformer Common	Transformer Common
B	Changeover Valve Energized in HEAT	N/A
O	Changeover Valve Energized in COOL	N/A
GL	Fan Relay, Low	Fan Relay, Low
GH	Fan Relay, High	Fan Relay, High
W	Second Stage of HEAT	First Stage of HEAT
Y	First Stage of HEAT and COOL	First Stage of COOL

Typical 1H/1C System: 2 Speed Fan

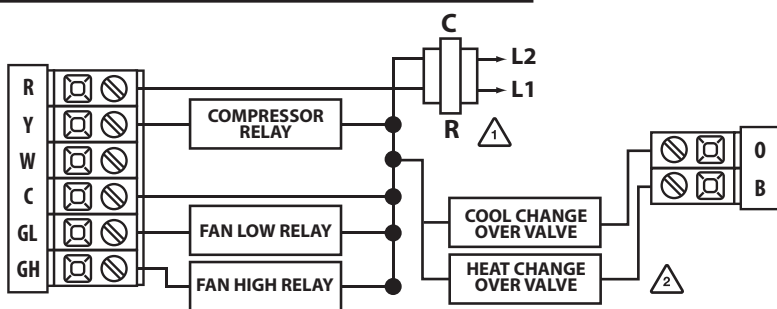


Wiring

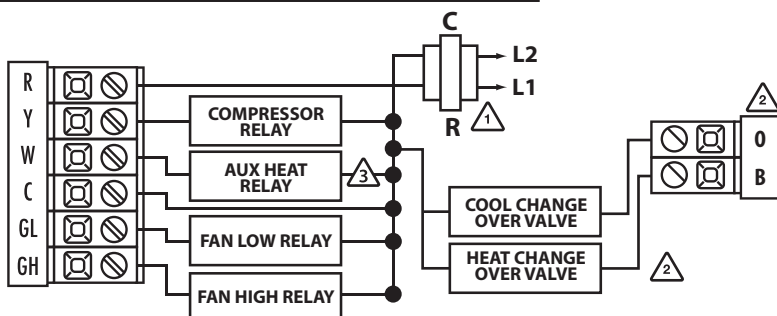
Typical 1H/1C System: 1 Speed Fan



Typical 1H/1C Heat Pump System: 2 Speed Fan



Typical 2H/1C Heat Pump System: 2 Speed Fan



Technician Setup

Tech Settings

1. Select OFF with the System Switch for Tech Settings. Select Heat or Cool for Swing and Limit settings. They are set separately.
2. Hold down the + and - buttons together for 3 seconds.
3. Use the + and - to change setting for that step, and the glow in the dark light button to move from one step to another.

To exit setup slide the system switch to different position or wait approximately 20 seconds.

Tech Settings	LCD Will Show	Adjustment Options	Default
Room Temperature Calibration	0	You can adjust the room temperature display to read 4° above or below the factory calibrated reading.	0
Compressor Short Cycle Delay	ON	Selecting "ON" will not allow the compressor to be turned on for 5 minutes after the last time the compressor was switched off. Select "OFF" to remove this delay.	ON
F or C	F	F for Fahrenheit C for Celsius	F
Heat Pump	ON	ON - Configured to operate heat pump system. OFF - Configured to operate conventional system See page 5 for terminal designations.	ON
Dual Fuel Auxiliary For Heat Pump <small>(Only displayed if heat pump is set to ON)</small>	OFF	Use the + and - buttons to select ON/OFF.	OFF

Swing and Limit Settings	LCD Will Show	Adjustment Options	Default
Cooling Swing 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 cooling swing setting is adjustable from 0.2° to 2°. For example: A swing setting of 0.5° will turn the cooling on at approximately 0.5° above the setpoint and turn the cooling off at approximately 0.5° below the setpoint.	0.8
Cooling Setpoint Limit This feature allows you to set a minimum cool setpoint value. The setpoint temperature can't be lowered below this value.		Use the and key to select the minimum cool setpoint.	44
Heating Swing 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 heating swing setting is adjustable from 0.2° to 2°. For example: A swing setting of 0.5° will turn the heating on at approximately 0.5° below the setpoint and turn the heating off at approximately 0.5° above the setpoint.	0.8
Heating Setpoint Limit This feature allows you to set a maximum heat setpoint value. The setpoint temperature can't be raised above this value.		Use the and key to select the maximum heat setpoint.	90

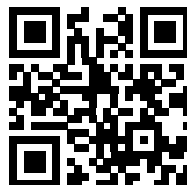
Specifications

Thermostat

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
 Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0°
 Cooling is adjustable from 0.2° to 2.0°
 Power source 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire
 Battery power from 2 AA Alkaline batteries
 Operating ambient 32°F to +105°F (0°C to +41°C)
 Operating humidity 90% non-condensing maximum
 Dimensions of thermostat 4.7"W x 4.4"H x 1.1"D

Warranty Information

Warranty Registration



Please Register Your Thermostat Here

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. Please register your new thermostat online.

www.vivecomfort.com/warranty