

TP-N-601

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

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Specifications

Power Type

Battery Power Hardwire (Common Wire) Hardwire (Common Wire) with **Battery Backup**

A trained, experienced technician must install this product.

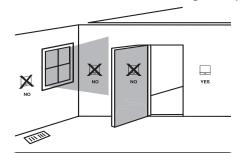
Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

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

Battery power from 2 AA Alkaline

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.





Installation Tip

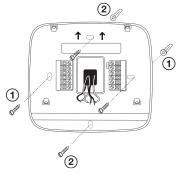
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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

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**

pipes

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.

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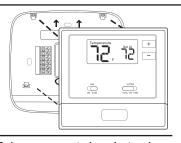
Rev. 1821

Thermostat Quick Reference

Mount Thermostat

Installation Tips

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

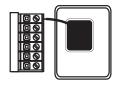
Battery installation is recommended even if thermostat is hardwired (C terminal connected).

Dimensions of thermostat 4.7"W x 4.4"H x 1.1"D

Operating humidity 90% non-condensing maximum

for hardwire

batteries

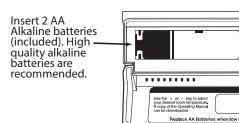


Important:

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

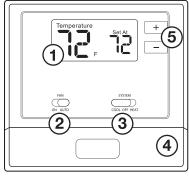
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Select Heat, Off, or Cool as needed. Select Fan On for continuous operation or Fan Auto to cycle fan with system. shows in disasters



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

Getting to know your thermostat



Low Battery Indicator: indicator is shown. Temperature N Set At ON Indicates the current room temperature.

ON will display when the COOL or HEAT is on. Compressor delay feature is active when flashing.

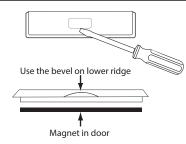
System Operation Indicators:

Displays the selected setpoint Temperature.

(**1**) LCD

- (2) Fan switch
- (3) System switch
- Easy change battery door Temperature setpoint buttons

Removing The Private Label Badge



Important

The low battery indicator is displayed when the 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 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.

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.

Wiring **Wiring Diagrams**



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. ✓₁ Power supply

 $\stackrel{\textstyle extstyle }{}_{2}$ Factory-installed jumper. Remove only when installing on 2-transformer systems

✓3 Use either O or B terminals for changeover valve

4 Use a small piece of wire (not supplied) to connect W and Y terminals

✓ Set fan operation switch to Electric

6 Optional 24 VAC common connection when thermostat is used in battery power mode

Wiring

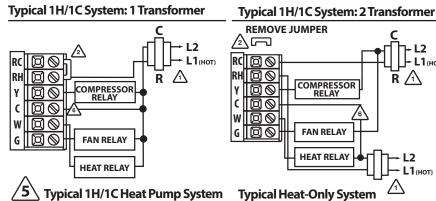
- 1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the **G** terminal.
- 2. Loosen the terminal block screws. Insert wires 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.

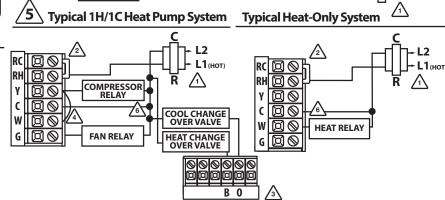
Max Torque = 6in-lbs.



Terminal Designations

- Common wire from secondary side of cooling system transformer, or from heat only system transformer
- Heat pump changeover valve energized in cooling
- Heat pump changeover valve energized in heating
- W Heat relay

- **RH** Transformer power for heating
- **RC** Transformer power for cooling
- **G** Fan relay
- Compressor relay



Wiring Tips

RH & RC Terminals

For single transformer systems, leave the jumper wire in place between RH and RC. Remove jumper wire for two transformer systems.

(With NO AUX or **Heat Pump Systems**

If wiring to a heat pump, use a small piece of wire (not supplied) to connect terminals W and Y.

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.

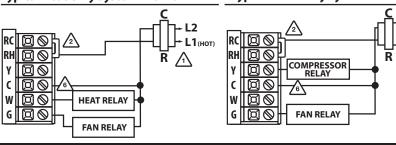
Typical Heat Only System With Fan

Typical Cool-Only System

- L1(HOT)

R ∕ſ

- **L1**(нот



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Technician Setup Technician Setup

Gas or Electric Setup

Gas: For systems that control the fan during a call for heat, put the fan operation switch to the GAS position.

Electric: Select Electric to have the thermostat control the fan during a call for heat.

Fahrenheit / Celsius Display

Select F or **C** with the jumper pin on the back of the thermostat.

Delay

The compressor delay will not allow the compressor to be turned on for 5 minutes after it was last turned off. The cooling icon will flash during the delay period. Select OFF or ON with the jumper pin as desired.

RH Reset Button RC G OFF ••• ON Select GAS or Electric with this switch Select **F** or **C** with Select delay ON or OFF with the jumper pin the jumper pin

Important

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

Adjusting the Temperature 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. There are separate swing settings for heat and for cool. Follow the steps below to adjust the SWING setting for heat or cool:

- 1. Select HEAT or COOL with the system switch.
- 2. Hold down the 🛨 and 💻 keys together for 3 seconds.
- 3. Us the \bigcirc or \bigcirc key to adjust the swing. The swing is adjustable from 0.2° to 2.0°. 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. The factory default for cooling is 0.5° and 0.4° for heating.
- 4. Wait approximately 10 seconds for the thermostat to return to normal operation.

Room Temperature Calibration

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. You can adjust the room temperature display to ready 40 above or below the factory calibrated reading. Follow the steps below to adjust the temperature reading:

- 1. Select OFF with the system switch.
- 2. Hold down the + and keys together for 3 seconds.
- 3. Us the + or key to adjust the room temperature display.
- 4. Wait approximately 10 seconds for the thermostat to return to normal operation, or more system switch.