



TP-N-601



Vive Comfort
P.O. Box 3377
Springfield, MO 65808-3377
Toll Free : 888-776-1427
Web: www.vivecomfort.com
Hours of Operation: M-F 9AM - 6PM Eastern

Thermostat Application Guide

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.

Table of Contents	Page
Specifications	1
Installation Tips	2-3
Thermostat Quick Reference	4
Wiring	5
Wiring Diagrams	6
Technician Setup & Warranty Information	7-8

Specifications

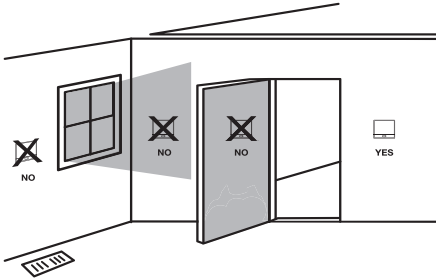
The display range of temperature ... 41°F to 95°F (5°C to 35°C)
The control range of temperature.... 44°F to 90°F (7°C to 32°C)
Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0°
Cooling is adjustable from 0.2° to 2.0°
Power source 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire
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

1 © U.S. Registered Trademark. Patents pending
Copyright © 2024 All Rights Reserved. Rev. 2422

Installation Tips (For professional technicians only)

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

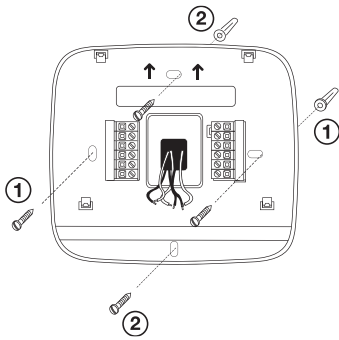
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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 pipes

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

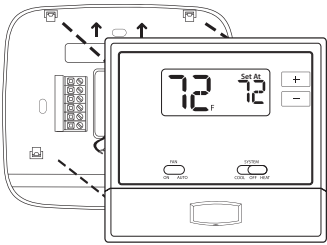
All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal or you can mail the thermostat to the address on the warranty section for proper disposal.

Installation Tips (For professional technicians only)

Thermostat Quick Reference

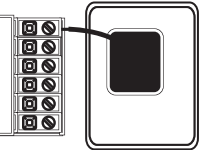
Mount Thermostat

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.



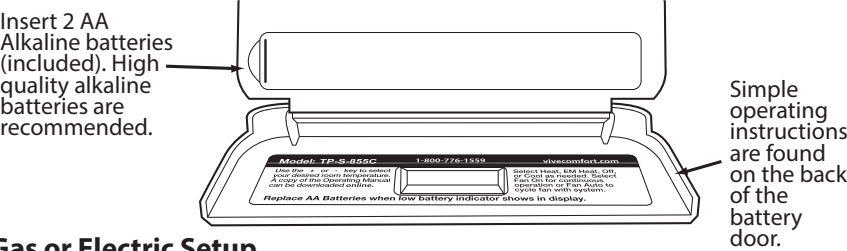
Battery Installation

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.

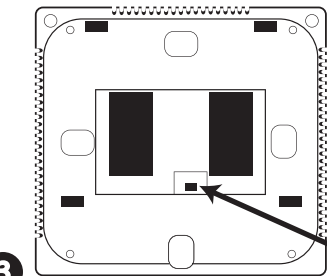


Important:

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



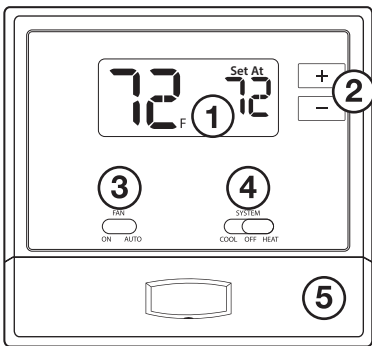
Gas or Electric Setup



Gas: For systems that control the fan during a call for heat, put the fan operation switch to the GAS position.
Electric: For systems that do not control the fan during a call for heat, put the fan operation switch to the ELECTRIC position.

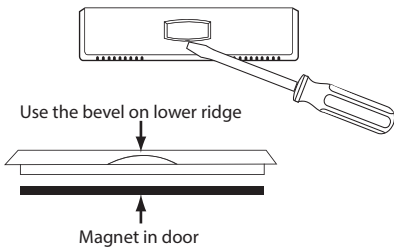
Fan Operation Switch

Getting to know your thermostat



- 1 LCD
- 2 Temperature setpoint buttons
- 3 Fan switch
- 4 System switch
- 5 Easy change battery door

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.

System Operation Indicators:

The COOL ON, HEAT ON icon will display when the COOL, HEAT is on.

Displays the selected setpoint temperature.



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 icon is displayed when the AA battery power is low. Whenever the thermostat detects low battery voltage from the AA batteries, the low battery icon will begin flashing on the screen for 21 days (if the batteries are not changed). If the batteries are not changed 22 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed. If the batteries are not changed 43 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed and the set points will offset to 85°F/29°C in cooling and 55°F/13°C in heating. At this stage, set point changes can be made temporarily but, the set points will change back to defaulted values after a 4-hour period. The thermostat will continue to perform this low battery flashing, temperature offset condition until the internal voltage threshold is reached. When the thermostat internal voltage threshold is reached, all relays will be opened and the thermostat will become inoperable until new batteries are installed.

Wiring (For professional technicians only)

Caution:
Electrical Hazard

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

Wiring

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

Terminal Designations

C Common wire from secondary side of cooling system transformer	RH Transformer power for heating
O Heat pump changeover valve energized in cooling	RC Transformer power for cooling
B Heat pump changeover valve energized in heating	G Fan relay
W Heat relay	Y 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.

Heat Pump Systems (With NO AUX or Emergency Heat)
If wiring to a heat pump, use a small piece of wire (not supplied) to connect terminals W and Y.

5

Technician Setup (For professional technicians only)

Swing & Limit Settings

- Select Heat or Cool with the System Switch.
- Press and hold the **+** and **-** buttons together for 3 seconds.
- Use the **+** and **-** to change setting for that step, press the **+** and **-** simultaneously to change between tech settings.

To exit Swing & Limit Settings, slide the System Switch to a different position or wait approximately 20 seconds.

Swing & Limit Settings	LCD Will Show	Adjustment Options	Default
Cooling Swing		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.	0.5
Cooling Setpoint Limit		This feature allows you to set a minimum cool setpoint value. The setpoint temperature can't be lowered below this value.	44
Heating Swing		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.	0.4
Heating Setpoint Limit		This feature allows you to set a maximum heat setpoint value. The setpoint temperature can't be raised above this value.	90

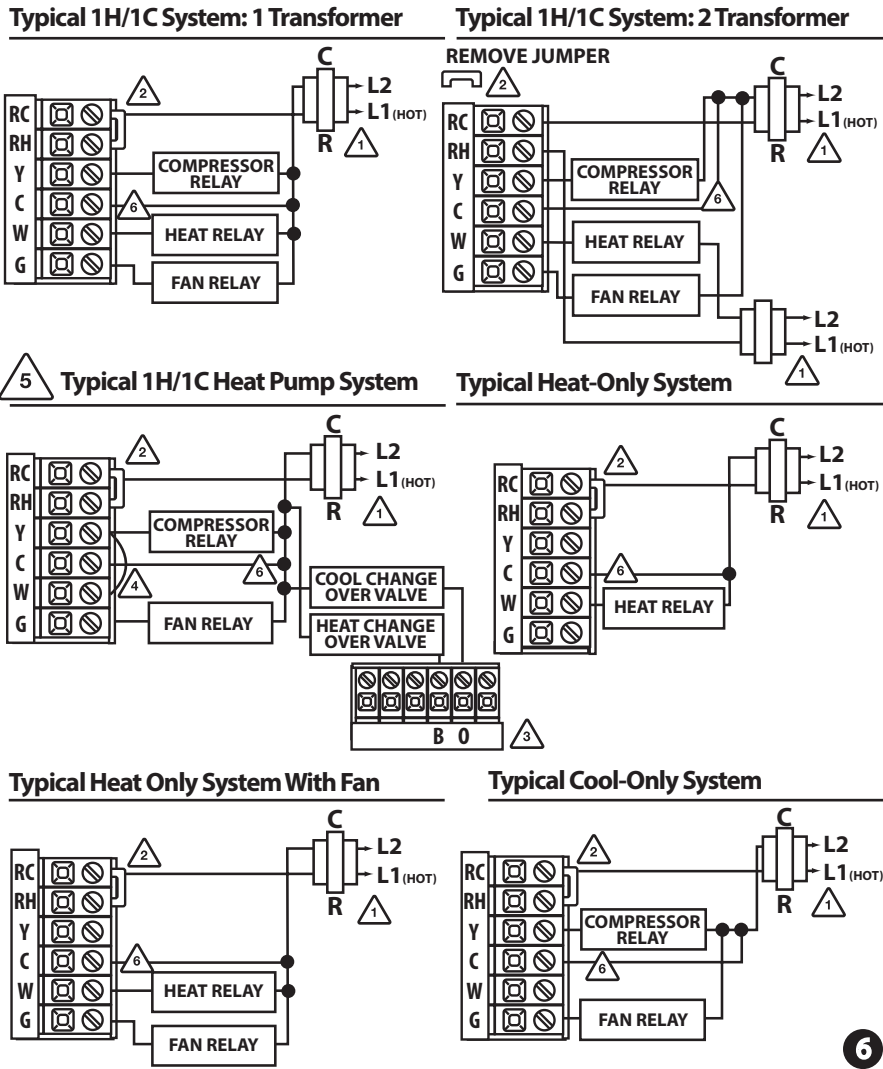
Swing Setting Tip

Temperature swing, sometimes called differential or cycle rate, can be customized for this individual application. For most applications choose a swing setting that is as wide as possible without making the occupants uncomfortable.

7

Wiring Diagrams (For professional technicians only)

- Power supply
- Factory-installed jumper. Remove only when installing on 2-transformer systems
- Use either **O** or **B** terminals for changeover valve
- Use a small piece of wire (not supplied) to connect **W** and **Y** terminals
- Set fan operation switch to Electric
- Optional 24 VAC common connection when thermostat is used in battery power mode



Technician Setup (For professional technicians only)

Tech Settings

- Select **OFF** with the System Switch for **Tech Settings**. Select **Heat or Cool** for **Swing and Limit** settings. They are set separately.
- Hold down the **+** and **-** buttons together for 3 seconds.
- 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 Tech Settings, slide the System Switch to a different position or wait approximately 20 seconds.

Tech Settings	LCD Will Show	Adjustment Options	Default
Room Temperature Calibration		This feature allows the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70 degrees and you would like it to read 72 then select +2.	0
Compressor Short Cycle Delay		The compressor short cycle delay prevents the compressor from switching on and off too often.	ON
F or C		Select F for Fahrenheit temperature read out or select C for Celsius read out.	F

Warranty Information

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. Please register your new thermostat online.

Please Register Your Thermostat Here

www.vivecomfort.com/warranty

8