

Springfield, MO 65808-3377

Web: www.vivecomfort.com

Toll Free: 888-776-1427

Vive Comfort P.O. Box 3377

TP-N-621

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	Yes

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

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

for hardwire

batteries

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.

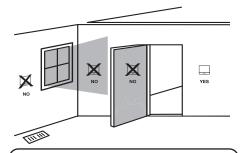
Una version en español de este manual se puede descargar en la pagina web de la compañia.

Battery power from 2 AA Alkaline

...... 32°F to +105°F (0°C to +41°C)

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

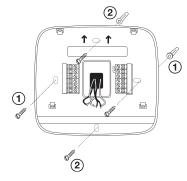
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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.

Thermostat Quick Reference

Displays the selected setpoint temperature.

Set At

Installation Tips

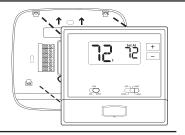
Operating ambient

Operating humidity

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.

® U.S. Registered Trademark. Patents pending Copyright © 2024 All Rights Reserved.



Rev. 2422

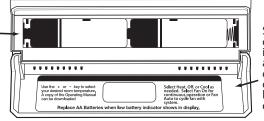
Battery Installation

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:

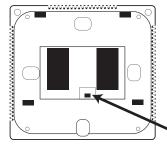
High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.

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



Simple operating instructions are found on the back of the battery

Conventional & Heat Pump



The switch converts the thermostats between conventional and heat pump operation.

Heat Pump: Configures the thermostat for heat pump operations.

Conventional: Configures the thermostat for conventional operations.

Conventional/Heat Pump Switch

Getting to know your thermostat



(**1**) LCD

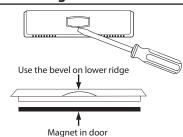
Temperature setpoint buttons

(3)Fan switch

(4) System switch

Easy change battery door

Removing The Private Label Badge



Indicates the current room temperature. Low Battery Indicator: Replace batteries when indicator is shown. **NOTE:** The compressor delay feature is active if **ON** is flashing. The compressor will not turn on until the 5 minute delay has elapsed.



System Operation Indicators:

Heat is on.

ON will display when the COOL, HEAT or Emergency

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.

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.



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.

Heat Pump System
1 HEAT 1 COOL / 2 HEAT 1 COOL

Transformer Power

Transformer Common

Changeover Valve

Energized in HEAT Changeover Valve Energized in COOL

Fan Relay

First Stage of Emergency HEAT

Second Stage of HEAT/ EMERGENCY HEAT

First Stage of HEAT and COOL

Terminal Designations

Warning:

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

Installation Tip

Do not overtighten terminal

damage the terminal block.

A damaged terminal block

from fitting on the subbase

Max Torque = 6in-lbs.

Conventional System
1 HEAT 1 COOL / 2 HEAT 1 COOL

Transformer Power

Transformer Common

Energized in HEAT

Energized in COOL

Fan Relay

First Stage of HEAT

Second Stage of HEAT

First Stage of COOL

can keep the thermostat

correctly or cause system

operation issues.

block screws, as this can

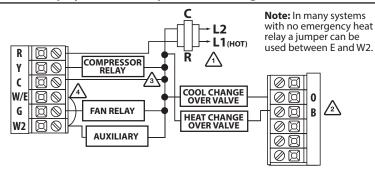
∕1 Power supply

2 Use either O or B terminals for changeover valve.

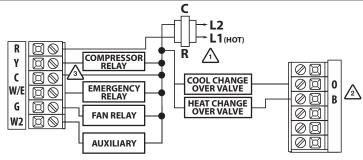
 $\sqrt{3}$ Optional 24 VAC common connection when thermostat is used in battery power mode.

4 Factory-supplied jumper

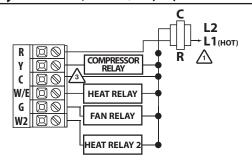
2H/1C Heat Pump System - Factory Default Setting



Typical 2H/1C Heat Pump System with separate emergency heat



Conventional System 1H/1C, 2H/1C (Heat pump set to "OFF" in tech settings)



Note: This thermostat is only compatible with ONE transformer systems.

R

C

R

0

G

W/E

W2

Υ

Technician Setup

Tech Settings

1. Select OFF with the System Switch.

2. 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 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.	ER	You can adjust the room temperature display to read 4° above or below the factory calibrated reading.	0
Compressor Short Cycle Delay	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 last turned off.		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
For C	Select F for Fahenheit temperature read out or select C for Celsius read out.	OFFE	F for Fahrenheit C for Celsius	F
Dual Fuel Auxiliary for Heat Pump Will only appear if Heat Pump setting is turned ON	For Dual Fuel applications (Gas/ Fossil fuel Auxiliary Heat), turn this setting ON to LOCKOUT the Heat Pump (Y) when Auxiliary Heat (W2) is on. If desired-This can also be used with Electric Auxiliary.		OFF will allow Y(1st stage of Heat) and W2 (Aux Heat) to run together if called for. ON Will de-energize Y terminal 45 seconds after a call for Auxiliary Heat (W2).	OFF

Technician Setup

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.	8.0	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.	8.	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.	90 - _	Use the → and → key to select the maximum heat setpoint.	90

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