

TP-N-801

Vive Comfort

P.O. Box 3377 Springfield, MO 65804 Toll Free: 888-776-1427 Web: www.vivecomfort.com

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				
Cool Only Systems	Yes				
Millivolt	Yes				

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Power Type

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

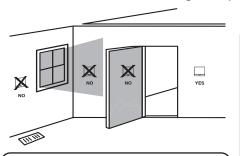
A trained, experienced technician must install this product.

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

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

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

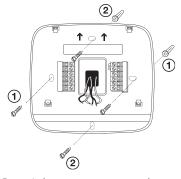
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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
- (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.

Getting to know your thermostat

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.



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Rev. 1821

Thermostat Quick Reference

Installation Tips Mount Thermostat

Wiring Diagrams

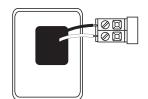
Technician Setup

Specifications

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.



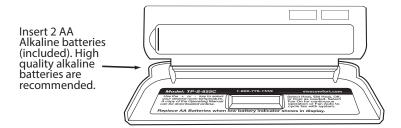
Battery Installation



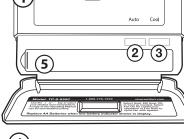
Battery installation is optional if thermostat is hardwired (R and C terminal connected to 24V

Important:

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



12 F COOL ON



indicator is shown 8888\$8888 8888 Indicates the Fan and System current room **Options**

Important

Low Battery Indicator: Keypad

batteries when

user sélectable Lockout Indicator setpoint temperature These system operation indicators will display when COOL, HEAT or FAN is ON. 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.

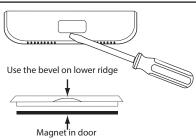
(**1**) LCD

(2) Fan Button

(3) System Button **(4)** Setpoint Buttons

(5) Battery Cover

Removing The Private



Label Badge

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 pr of the battery door. The badge off easily. **DO NOT USE FORCE.** should pry

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.

(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

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.

Displays the

Wiring

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

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 Il circuits per the NEC Code.

Terminal Designations

- Common wire from secondary side of **RH** Transformer power for heating cooling system transformer
- O Heat pump changeover valve energized in cooling
- Heat pump changeover valve energized in heating
- W Heat relay

- **RC** Transformer power for cooling
- **G** Fan 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.

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.

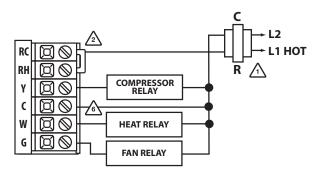


Installation Tip: Do not overtighten terminal block screws, as this can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues. Max Torque = 6in-lbs.

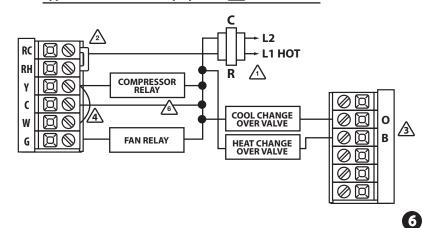
Wiring Diagrams

- √1 Power supply
- Factory-installed jumper. Remove only when installing on 2-transformer systems.
- 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.

Typical 1H/1C System: 1 Transformer



Typical 1H/1C Heat Pump System 👍



LCD Will Show

Adjustment Options

Default

0.4

0FF

90°

44°

Technician Setup

- 1. To enter Tech Setup Menu, press and hold ▲ and ▼ together for 3 seconds.
- 2. Use ▲ or ▼ to select desired setting for each option.
- 3.
- 4.

seconds.	Tech Setup Steps

Technician Setup

 2. Use			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		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			
		Adjustment Options Default		Swilig	swing setting will cause fewer	HERT SHING	setpoint and furn the heating off at approximately 0.5° above the setpoint.		
Filter Change Reminder	This feature will flash "a reminder" in the display after the elapsed run time to remind the user to change the filter. A setting of "OFF" will disable this feature.	SE F	You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments.	OFF	Keypad Lockout	Keypad lockout allows you to configure the thermostat so that none or some of the keys do not function.	OF	Select OF, PA or FU. OF = (off) Keypad Lockout will be disabled. PA= Partial keypad lockout, locks all the keys except the ▲ or ▼ keys. FU= Full Keypad lockout, locks out all the keys. Note: Keypad lockout	
Room	This feature allows the installer to change the calibration of the		You can adjust the room temperature display to read				KEA FOCK	instructions are at the end of tech setup.	
Temperature Calibration	room temperature display. For example, if the thermostat reads 70° degrees and you would like it to read 72° then select +2.	CRL	4° above or below the factory calibrated reading.	0	Heating Temperature	This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this valve.	90 	Use the ▲ or ▼ key to select the maximum heat setpoint. Range 44°F - 90°F	
Minimum	This feature allows the installer to select the minimum run time for the compressor. For example: a setting of 4 will force the		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.		Setpoint Limit		HERT L IM IT		
Compressor On Time	compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room temperature.	OFF		OFF	Cooling Temperature Setpoint	This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.		Use the ▲ or ▼ key to select the minimum cool setpoint. Range 44°F - 90°F	
Compressor	The compressor short cycle delay protects the compressor from	OF OF	the compressor to be turned on for 5 minutes after the last time		Limit		COOL L IM IT		
Short Cycle Delay	short cycling. This feature will not allow the compressor to be turned on for 5 minutes after it was last turned off.			ON	F° or C°	Select F for Fahrenheit read out or select C for Celsius read out.	74	°F for Fahrenheit °C for Celsius	
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 from cycles.	0.5	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	0.5	Fan Operation	Select GAS for systems that control the fan during a call for heat. Select ELEC to have the thermostat control the fan		Gas or Elec	(

at approximately 0.5° below the

setpoint.

COOL SHING

fewer cycles.

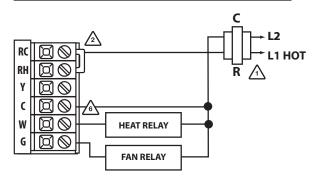
GAS

ELEC

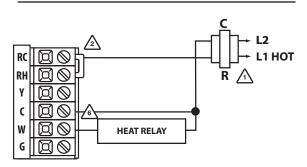
thermostat control the fan

during a call for heat.

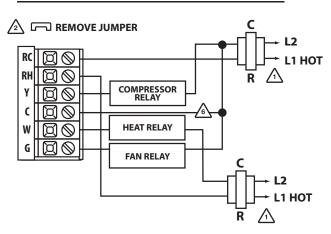
Typical Heat-Only System With Fan



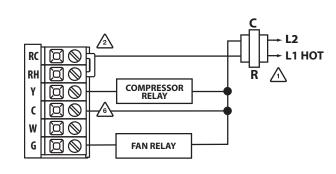
Typical Heat-Only System



Typical 1H/1C System: 2 Transformer



Typical Cool-Only System



7

8 fications

Technician Setup Technician Setup & Specifications

Tech Setup S	teps	LCD Will Show	Adjustment Options	Default	Reminder Note
Display Light	The display light can be configured to come on when any key is pressed or only when the light key is pressed.	dL OFF	OFF configures display light to come on only with the light key, which will save battery power. On configures the display light to come on when any key is pressed.	ON	Once a reminder has been turned on and set, the elapsed time can be checked by navigating to it's Technican Setup step with a press of the SYSTEM BUTTON , the elapsed time will be displayed. It can also be reset at the time by a press and hold of the FAN BUTTON for 3 seconds. Resetting an expired reminder can be done without entering tech setup, by a press and hold of the FAN BUTTON for 3 seconds.
Contractor	Allows you to put your phone number in the display. Selecting "ON" will enable this feature. "OFF" will disable this feature.		If selected on, you will see the input screen after pressing SYSTEM key. Use the ▲ key to move from one character to	٥٢٢	A Note About Keypad Lockout: The function of activating your lockout choice takes place after you have
Call Number		OFF CRLL	another. Use the key to change the blinking character. Press SYSTEM key when finished.	OFF	exited tech setup to lock or unlock the keypad hold down the FAN and SYSTEM for 3 seconds.
Веер	When any key is pressed ab audible beep will sound. There is an ON or an OFF.	P P	If ON is selected the beep will sound. If OFF is selected, there is not sound.	ON	
	You can configure the system switch for the particular		Use the ▲ or ▼ key until the desired application is flashing.		Specifications
System	application: Heat - Off - Cool,		desired apprication is mashing.	HEAT OFF	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)
Switch	Heat - Off, Cool - Off, Heat - Off - Cool-Auto	XERT OFF COOL		COOL	Load rating1. amp per terminal, 1.5 amp maximum all terminals combined
	Auto - Autochangeover		Heatha A as W kouta calast		Swing (cycle rate or differential) Heating is adjustable from 0.2° to 2.0° Cooling is adjustable from 0.2° to 2.0°
Humidity Pad Reminder	This will remind the user to change the humidity pad.	OFF HUM PRO OFF	Use the ▲ or ▼ key to select OFF, 600, 1000, 1500, 2000. These represent hours of heat operation.	OFF	Power source
UV Lamp Reminder	Will remind the user to change the UV light bulb.	OFF Ur LAMP OFF	Use the ▲ or ▼ key to select OFF 1 YEAR, 2 YEAR.	OFF	Operating ambient
IAQ Cell	Will remind the user to change the PHI Cell after 25,000 hrs.	OF	Use the ▲ or ▼ key to select OFF, or 250. (Stands for 25000 hours).	OFF	
Reminder		IRS CELL		OII	