

TP-P-605

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

Table of Contents	Page
Installation Tips	2-3
Thermostat Quick Reference	4-5
Wiring	6
Wiring Diagrams	7-8
Features	9
Technician Setup	10-13
Programming Thermostat	13-16

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 espanol de este manual se puede descargar en la pagina web de la compania.

Specifications

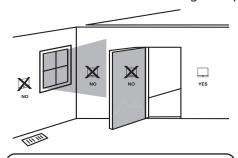
The display range of temperature The control range of temperature	.41°F to 95°F (5°C to 35°C) .44°F to 90°F (7°C to 32°C)
Swing (cycle rate or differential)	Heating is adjustable from 0.2° to 2.0
Power source	Heating is adjustable from 0.2° to 2.0 Cooling is adjustable from 0.2° to 2.0 18 to 30 VAC, 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 Dimensions of thermostat	. 90% non-condensing maximum
Difficitions of theffilostat	T./ WAT.T IIA I.I D

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Rev. 1821

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

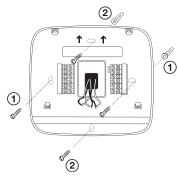
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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.

Mercury Notice

All of our products are mercury free.

damage.

Installation Tip:

Electrical Hazard

Failure to disconnect the power before

beginning to install this product can

cause electrical shock or equipment

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.

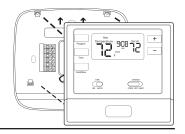
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Installation Tips

Mount Thermostat

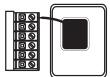
Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.

® U.S. Registered Trademark. Patents pending



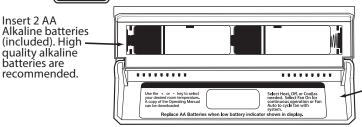
Battery Installation

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.

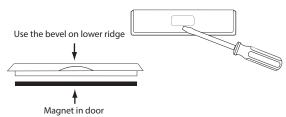


Simple operating instructions are found on the back of the battery

About The Badge

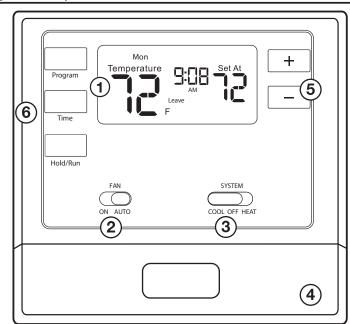
All of our thermostats use the same universal magnetic badge. Visit the company website to learn more about our free private label program.

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.**



Thermostat Quick Reference

Getting to know your thermostat

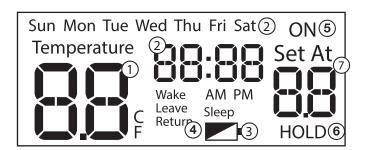


- (1) LCD Display
- (2) Fan Switch
- (3) System Switch
- (4) Easy change battery door
- (5) Temperature Setpoint Buttons
- **6** User Buttons

Wiring

Wiring

Getting to know your thermostat



- (1) Indicates the current room temperature
- (2) Time and day of the week
- (3) **Low Battery Indicator:** Replace batteries when this indicator is shown.
- 4 Program Time Periods: This thermostat has 4 programmable time periods per day.
- System Operation Indicators: ON will display when the COOL or HEAT is on. Compressor delay feature is active if Flashing.
- **(6) Hold** is displayed when the thermostat program is permanently overridden.
- (7) **Setpoint:** Displays the user selectable setpoint temperature.

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 the thermostat will shut the unit off until the batteries are changed.

Note: This is a programmable thermostat, and will always be running a programmed schedule. However, it can be overidden with a

below the set-at temperature and will remain in this hold until the

Permanent Hold: To enter a Permananet Hold, press the Hold/Run button while "HOLD" is flashing. The word "HOLD" will remain on

To Return to Running Schedule: To manually exit this hold and return to scheduled program, press Hold/Run button or cycle the

- 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.

Terminal Designations

- Common wire from system transformer
- Heat pump changeover valve energized in cooling
- Heat pump changeover valve energized in heating
- W Heat relay

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.

- **RH** Transformer power for heating
- **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.

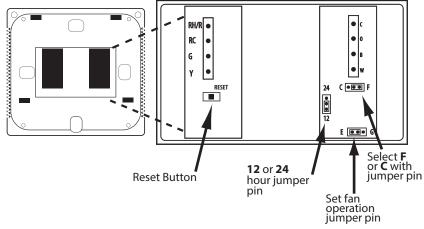


Installation Tip: Do not overtighten terminal block screws, as this keep the thermostat from fitting on the subbase correctly or cause



can damage the terminal block. A damaged terminal block can Max Torque = 6in-lbs. system operation issues.

Tech Settings



Gas or Electric Setup

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

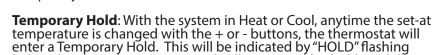
Electric: Select Electric to have the thermostat control the fan during a call for heat.

Fahrenheit/Celsius Display

Select **F** or **C** with the jumper pin on the back of the thermostat. **F** is for Fahrenheit and **C** is for Celsius.

12 or 24 Hour Time

12 or 24 hour (military time) can be selected with the jumper pin.





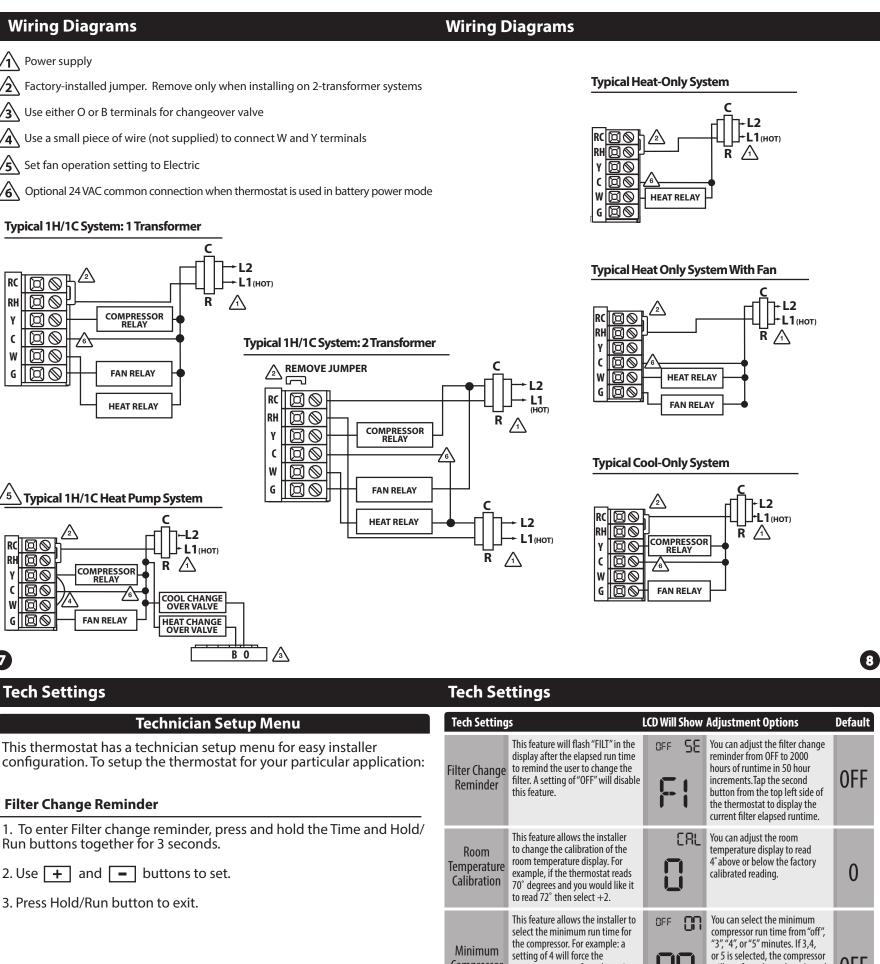
Features

System Switch.

Temporary or Permanent Hold.

next programmed time period begins.

continuously, indicating a Permanent Hold.



All other Steps

- 1. To enter all other steps press and hold + and buttons together for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.
- 2. Use + and buttons to set.
- 3. Press Program button to advance to the next step.
- 4. Press Hold/Run button to exit.

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 long as possible without making the occupants uncomfortable.

Filter Change Reminder	display after the elapsed run time to remind the user to change the filter. A setting of "OFF" will disable this feature.	OFF SE	reminder from OFF to 2000 hours of runtime in 50 hour increments. Tap the second button from the top left side of the thermostat to display the current filter elapsed runtime.	OFF
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.	CRL	You can adjust the room temperature display to read 4° above or below the factory calibrated reading.	0
Minimum Compressor On Time	This feature allows the installer to select the minimum run time for the compressor. For example: a setting of 4 will force the compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room temperature.		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.	0FF
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.	on OF	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
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.	8FC0	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
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.	dFHE	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

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Prod	ramn	nına

Set Time

- 1. Press TIME
- 2. Day of the week will be flashing. Use the + or key to select the current day of the week.
- 3. Press TIME
- **4.** The current hour is flashing. Use the select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
- 5. Press TIME
- **6.** Minutes are now flashing. Use the ____ or ___ key to select current minutes.
- 7. Press HOLD/RUN when completed.

Programming

Programming

All of our programmable thermostats are shipped with an energy saving pre-program. You can customize this default program by following the steps on page 16.

Your thermostat can be programmed to have all the weekdays the same, a seperate program for Saturday, and a seperate program for Sunday. There are four time periods for each program (WAKE, LEAVE, RETURN, SLEEP).

	Factory Default Program				
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)	
	Wake	6 AM	70°F (21°C)	75°F (24°C)	
Weekday	Leave	8 AM	62°F (17°C)	83°F (28°C)	
vveekuay	Return	6 PM	70°F (21°C)	75°F (24°C)	
	Sleep	10 PM	62°F (17°C)	78°F (26°C)	
	Wake	6 AM	70°F (21°C)	75°F (24°C)	
Saturday	Leave	8 AM	62°F (17°C)	83°F (28°C)	
Saturday	Return	6 PM	70°F (21°C)	75°F (24°C)	
	Sleep	10 PM	62°F (17°C)	78°F (26°C)	
	Wake	6 AM	70°F (21°C)	75°F (24°C)	
Sunday	Leave	8 AM	62°F (17°C)	83°F (28°C)	
Juliuay	Return	6 PM	70°F (21°C)	75°F (24°C)	
	Sleep	10 PM	62°F (17°C)	78°F (26°C)	

B

Programming

You can use the table below to plan your customized program schedule.

	Custom Program				
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)	
	Wake				
Ma aladan	Leave				
Weekday	Return				
	Sleep				
	Wake				
Catumdan	Leave				
Saturday	Return				
	Sleep				
	Wake				
Cunday	Leave				
Sunday	Return				
	Sleep				

Programming

Set Program Schedule

To customize your program schedule, follow these steps Weekday:

- **1.** Select **HEAT** or **COOL** with the system switch. **Note:** You have to program heat and cool each seperately.
- 2. Press the PROGRAM
- **3.** Monday-Friday is displayed and **WAKE** is shown. You are now programming the wake time period for the weekday setting.
- **4.** Time is flashing. Use the + or key to make your time selection for the weekday **WAKE** time period.
- 5. Press PROGRAM
- **6.** The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the weekday wake period.
- 7. Press PROGRAM
- **8.** Repeat steps 4 thru 7 for weekday **LEAVE** time period, for weekday **RETURN** time period, and for weekday **SLEEP** time period.

Saturday:

Repeat steps 4 thru 7 for the Saturday **WAKE** time period, **LEAVE** time period, **RETURN** time period, and for the Saturday **SLEEP** time period.

Sunday:

Repeat steps 4 thru 7 for the Sunday **WAKE** time period, **LEAVE** time period, **RETURN** time period, and for the Sunday **SLEEP** time period.





1