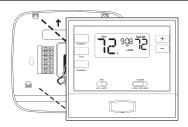


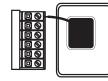
# **Mount Thermostat**

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:

your d A copy

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.

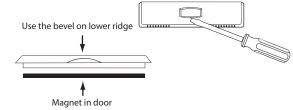
#### Simple operating instructions ...... ..... are found on the back of the Select Heat, Off, or Cool as needed. Select Fan On for continuous operation or Fan Auto to cycle fan with system or key to select ed room temperature the Operating Manual battery door.

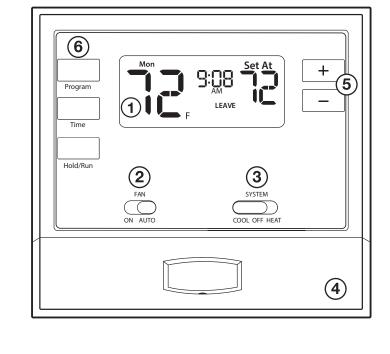
# **About The Badge**

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.** 

3





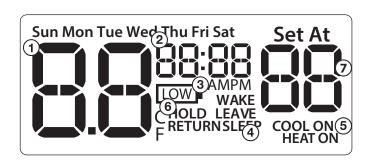
(1) LCD Display

Getting to know your thermostat

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

# Thermostat Quick Reference

### 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.

- 5 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 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 icon until buttons are pressed. If the batteries are not changed 43 days after the thermostat detects low battery icon until buttons are pressed and the set points will only show the flashing battery icon until buttons are pressed and the set points will only show the flashing battery icon until buttons are pressed. At this state, set point changes can be made temporarily but the set points will offset and 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.

# (5)

# **Features**

#### **Temporary and Permanent Hold Feature**

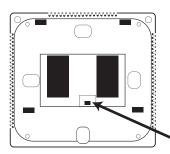
Note: This is a programmable thermostat, and will always be running a programmed schedule. However, it can be overidden with a Temporary or Permanent Hold.

Temporary Hold: With the system in Heat or Cool, anytime the SET-AT temperature is changed with the + or - buttons, the thermostat will enter a Temporary Hold. This will be indicated by "HOLD" flashing and will remain in this hold until the next programmed time period begins.

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

To Return to Running Schedule: To manually exit permanent hold and return to scheduled program, press Hold/Run button.

### **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 tothe ELECTRIC position.

**Fan Operation Switch** 

**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.

#### Wiring (For professional technicians only)

# 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.
- Loosen the terminal block screws. Insert wires then retighten terminal block screws.
- Place nonflammable insulation into wall opening to prevent drafts.

#### **Terminal Designations**

- Common wire from system С transformer
- **O** Heat pump changeover valve energized in cooling
- Heat pump changeover valve R energized in heating
- W Heat 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.



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.** 

Technician Setup (For professional technicians only)

#### **Technician Setup Menu**

This thermostat has a technician setup menu for easy installer configuration. To setup the thermostat for your particular application:

#### **The Technician Setup Menu**

- 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 the Program button to advance to the next step.
- 4. Press the time button to go back to the previous stop.
- 5. Press the 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.

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.	Next Step Prev Step	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.	Next Step Prev Step	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
F or C	Select F for Fahenheit temperature read out or select C for Celsius read out.	Next Step FC	F for Fahrenheit C for Celsius	F

The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

6

**Caution:** 

Failure to disconnect the power

before beginning to install this

Warning:

system and the thermostat

installation must conform to

All components of the control

Class II circuits per the NEC Code.

**RH** Transformer power for heating

**RC** Transformer power for cooling

or equipment damage.

product can cause electrical shock

**Electrical Hazard** 

#### Wire Specifications

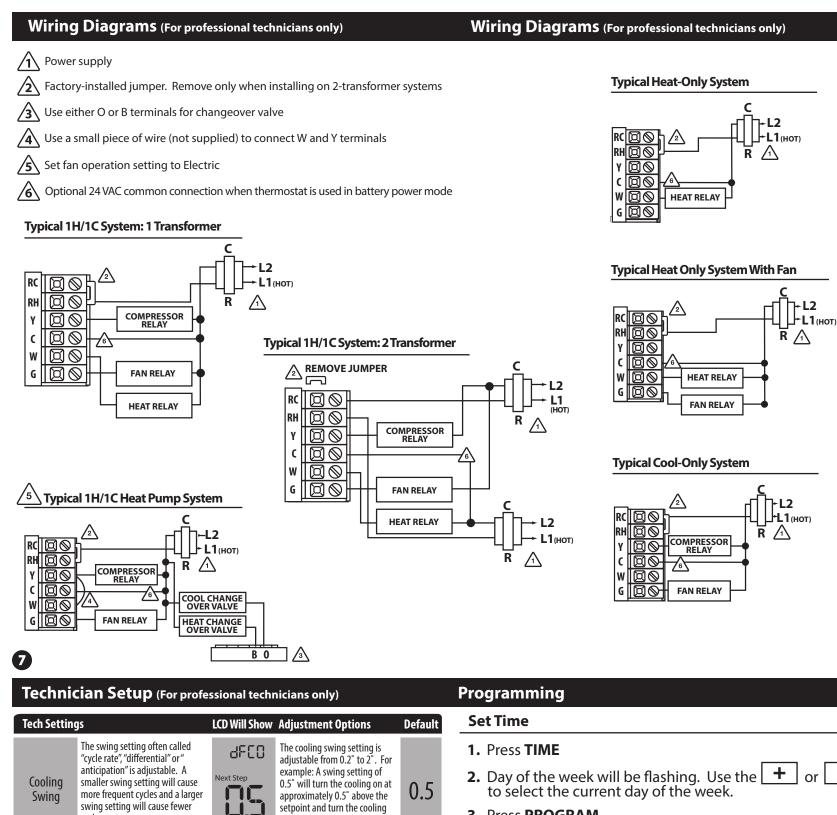
**G** Fan relay

C Terminal

Y Compressor relay

Use shielded or non-shielded 18-22 gauge thermostat wire.

10



off at approximately 0.5° below

0.4

44

90

ON

5d

the setpoint.

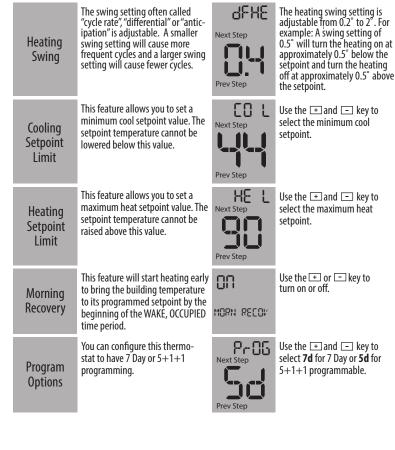
9848

# 3. Press PROGRAM

**4.** The current hour is flashing. Use the **+** or **-** key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.

# 5. Press PROGRAM

- 6. Minutes are now flashing. Use the + or key to select current minutes.
- 8. Press the TIME button in order to go back a step.
- 7. Press HOLD/RUN when completed.



cvcles.

(8)

key

# 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 14.

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)				
Weekday	Wake	6 AM	70°F (21°C)	75°F (24°C)				
	Leave	8 AM	62°F (17°C)	83°F (28°C)				
	Return	6 PM	70°F (21°C)	75°F (24°C)				
	Sleep	10 PM	62°F (17°C)	78°F (26°C)				
Saturday	Wake	6 AM	70°F (21°C)	75°F (24°C)				
	Leave	8 AM	62°F (17°C)	83°F (28°C)				
	Return	6 PM	70°F (21°C)	75°F (24°C)				
	Sleep	10 PM	62°F (17°C)	78°F (26°C)				
Sunday	Wake	6 AM	70°F (21°C)	75°F (24°C)				
	Leave	8 AM	62°F (17°C)	83°F (28°C)				
	Return	6 PM	70°F (21°C)	75°F (24°C)				
	Sleep	10 PM	62°F (17°C)	78°F (26°C)				

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

Programming

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

# B

# 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
- 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:

15

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

# **Warranty Information**

### **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

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