



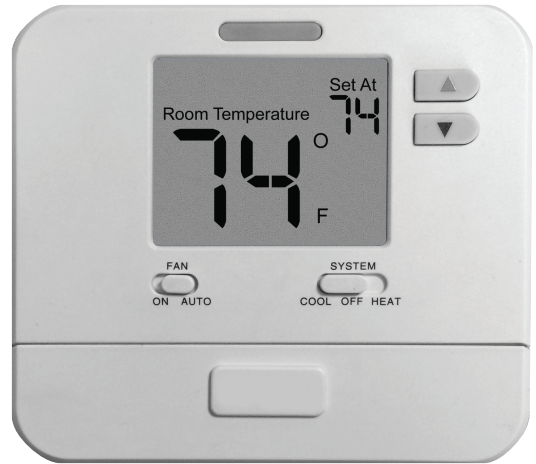
TP-N-701

VIVE Comfort

1111 S. Glenstone Ave., Suite 2-100
Springfield, MO 65804

Toll-Free: 1-800-776-1635 **Web:** www.vivecomfort.com

Hours of Operation: M-F 9AM - 6PM Eastern



Thermostat Applications 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 Furnaces	Yes
Cool Only Systems	Yes
Millivolt	Yes

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Power Type

Battery Power

Hardwire (Common Wire)

Hardwire (Common Wire) with Battery Backup

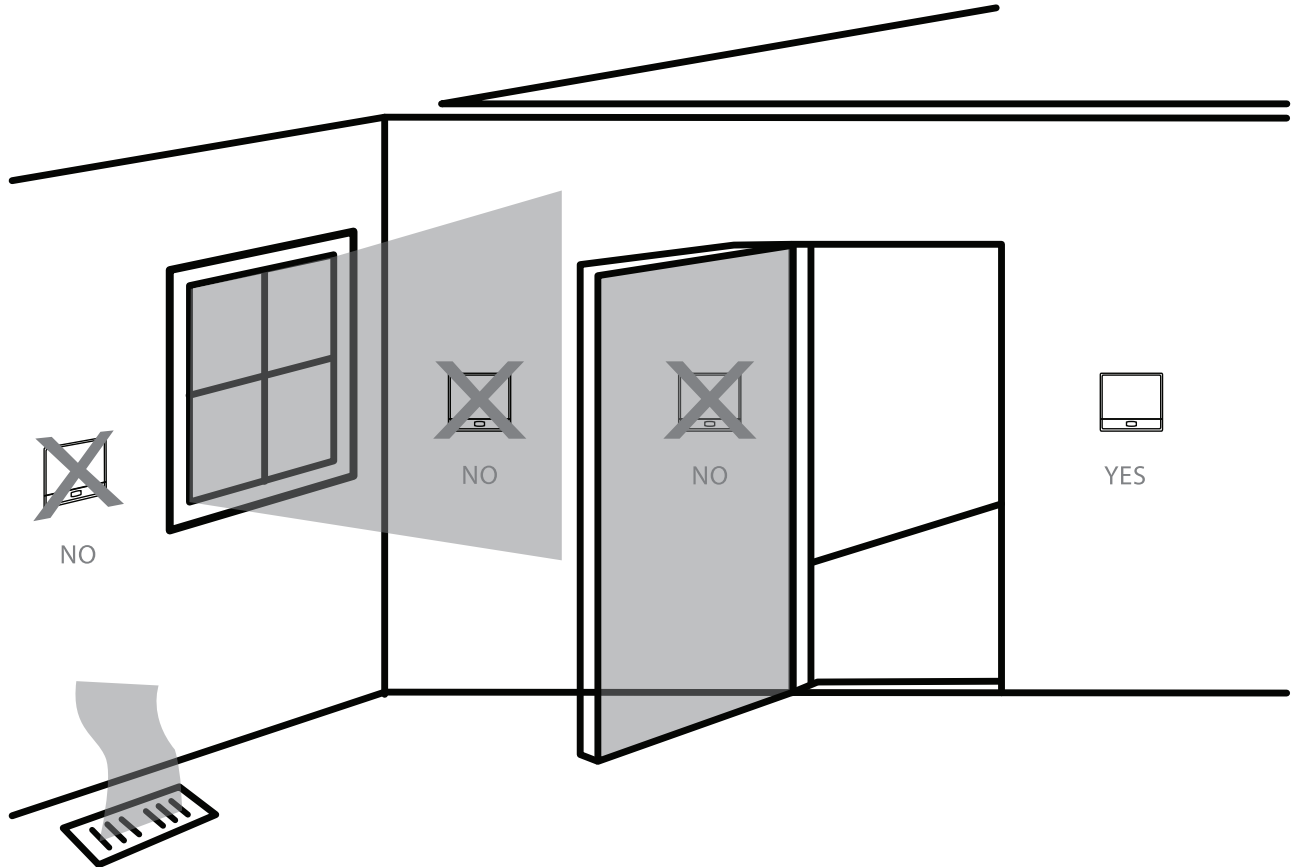
A trained, experienced technician must install this product.

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

Una versión en español de este manual se puede descargar en la página web de la compañía.

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.



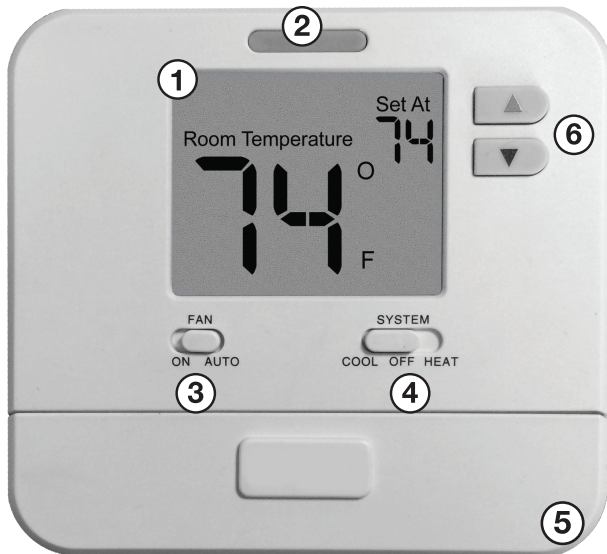
Do not install thermostat in locations:

- 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

Installation Tip

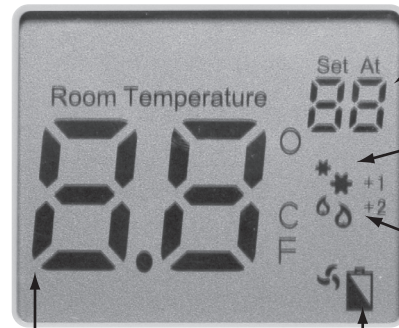
Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

Getting to know your thermostat



- ② **Glow in the Dark Light Button**
- ③ **Fan Switch**
- ④ **System Switch**
- ⑤ **Easy Change Battery Door**
- ⑥ **Temperature Setpoint Buttons**

① LCD Display



Displays the user selectable setpoint temperature.

* * ⚡ ⚡
COOL HEAT FAN

System operation indicators:
 The **COOL, HEAT** or **FAN** icon will display when the **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.

Low Battery Indicator:
 Replace batteries when indicator is shown.

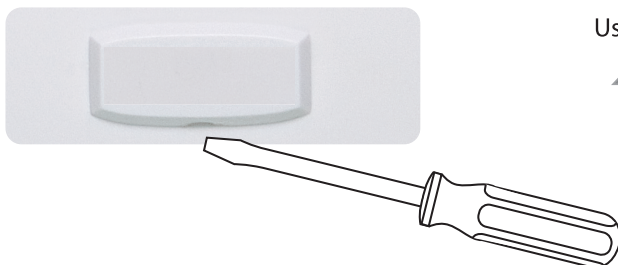
Indicates the current room temperature.



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 show the low battery indicator but maintain all functionality. If the user fails to replace batteries after an additional 21 days (days 22-42 since first "low battery" display) the set points will change to 55°F (Heating) and 85°F (Cooling). If the user adjusts these setpoints away from these it will hold for 4 hours then return to either 55°F or 85°F. After day 42 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the battery is changed.

Removing the Private label badge



Use the bevel on lower ridge

Magnet in door

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 our thermostats use the same universal magnetic badge. Visit our website to learn more about our dealer imprinting programs.



Caution: Electrical Hazard

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

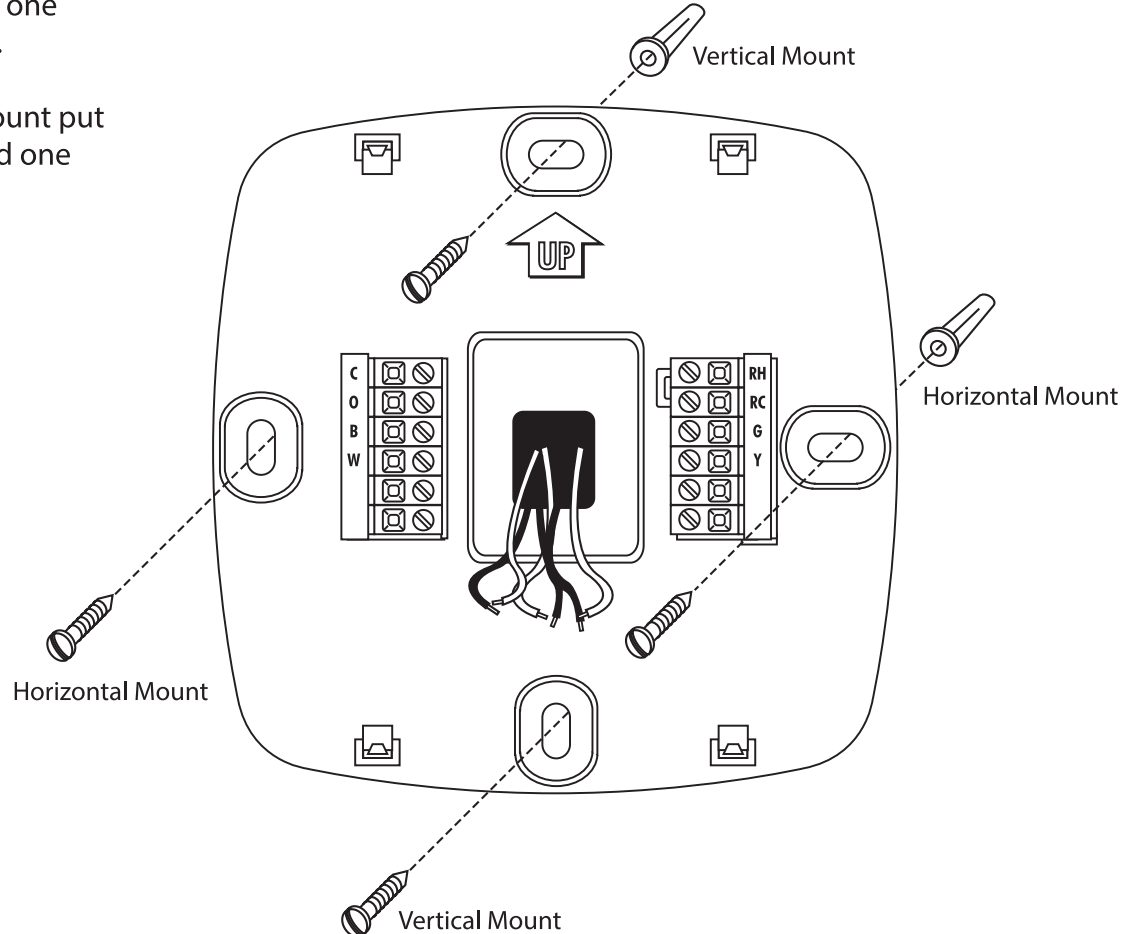


Mercury Notice:

All of our thermostats 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.

For vertical mount put one screw on top and one screw on bottom.

For horizontal mount put one screw left and one screw right.



Note:

To insure a solid fit between the thermostat and the subbase, mount the subbase on a flat wall with the drywall anchors flush to the wall. Using the screws and drywall anchors that were provided with the new thermostat.



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 the Class II circuits per the NEC Code.

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 until they are snug. Do not overtighten.
3. Place non-flammable insulation into wall opening to prevent drafts.

Terminal Designations:

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

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

If wiring to a heat pump, use a small piece of wire (not supplied) to connect terminals W and Y.

C terminal

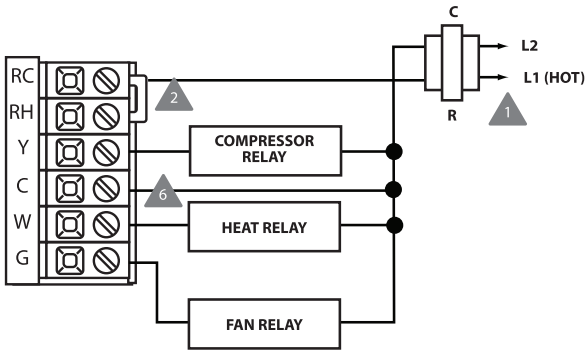
The C (common Wire) terminal does not have to be connected when the thermostat is powered by batteries.

Wire specifications

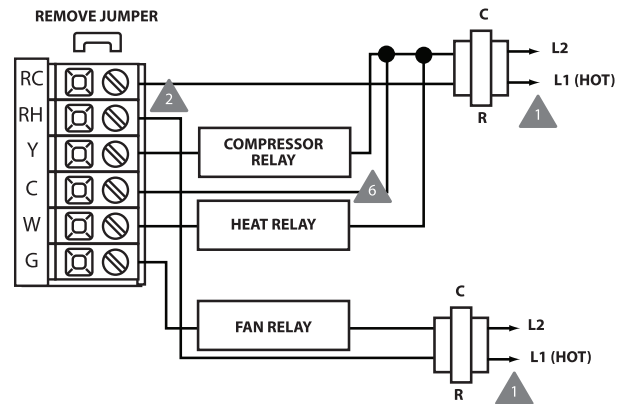
Use shielded or non-shielded 18 -22 gauge thermostat wire.

- ▲ 1 Power supply
- ▲ 2 Factory-installed jumper..Remove only when installing on 2-transformer systems
- ▲ 3 Use either O or B terminals for changeover valve
- ▲ 4 Use a small piece of wire (not supplied) to connect W and Y terminals
- ▲ 5 Set fan operation switch to electric
- ▲ 6 Optional 24 VAC common connection when thermostat is hardwired with battery backup mode.

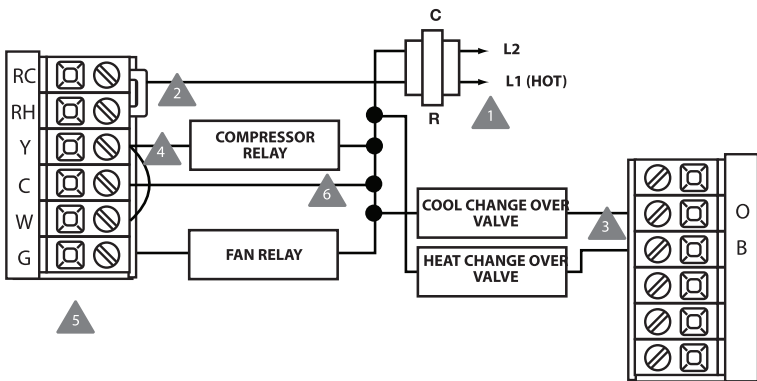
Typical 1H/1C system: 1 transformer



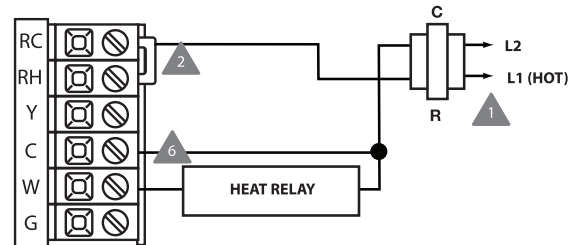
Typical 1H/1C system: 2 transformer



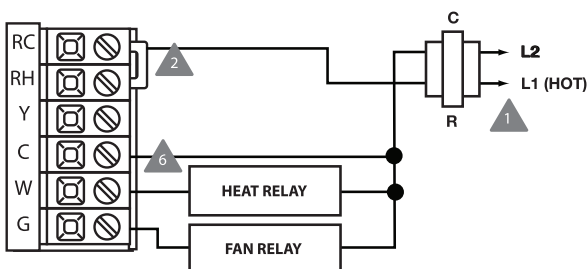
Typical 1H/1C heat pump system



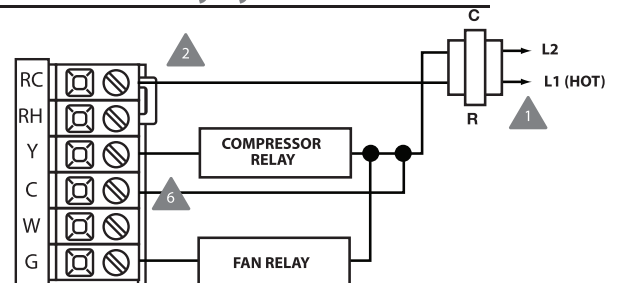
Typical heat-only system

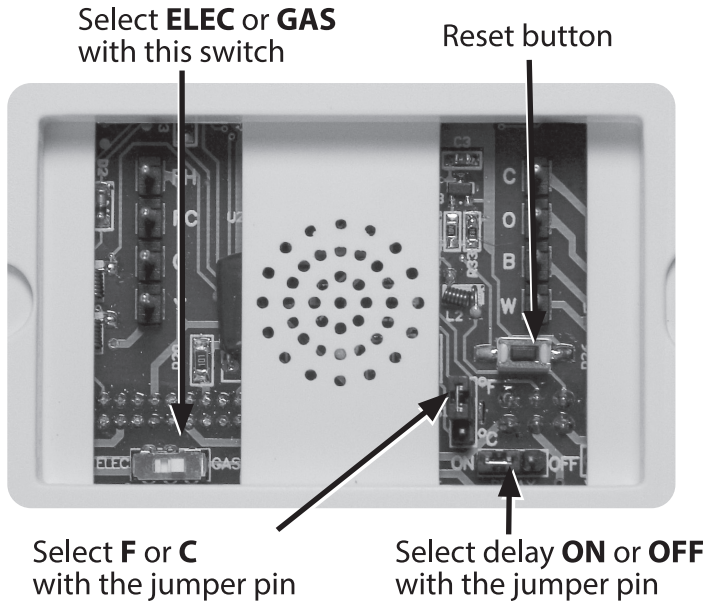


Typical heat-only system with fan



Typical cool-only system





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: With the operation switch in the **ELEC** position, and the fan relay connected to the G terminal - The thermostat will 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.

Delay

The compressor delay will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. The cooling icon will flash during the delay period. Select **OFF** or **ON** with the jumper pin as desired.







Important:

The **RESET** button must be pressed after changing any switch or jumper pin setting. Batteries must be installed for this operation.





Adjusting the Temperature 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. There are separate swing settings for heat and for cool. Follow the steps below to adjust the **SWING** setting for heat or cool:

1. Select **HEAT** or **COOL** with the system switch.
2. Hold down the  and  keys together for 3 seconds.
3. Use the  or  key to adjust the swing. The swing is adjustable from $\pm 0.2^{\circ}\text{F}$ to $\pm 2^{\circ}\text{F}$.
For example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the setpoint. The factory default for cooling is 0.5°F and 0.4°F for heating.
4. Wait approximately 10 seconds for the thermostat to return to normal operation.

Room Temperature Calibration

This feature allows the installer to change the calibration of the room temperature display. For example: If the thermostat reads 70° and you would like it to read 72° then select +2. You can adjust the room temperature display to read -4°F to $+4^{\circ}\text{F}$ above or below the factory calibrated reading. Follow the steps below to adjust the temperature reading:

1. Select OFF with the system switch.
2. Hold down the  and  keys together for 3 seconds.
3. Use the  or  key to adjust the room temperature display.
4. Wait approximately 10 seconds for the thermostat to return to normal operation.

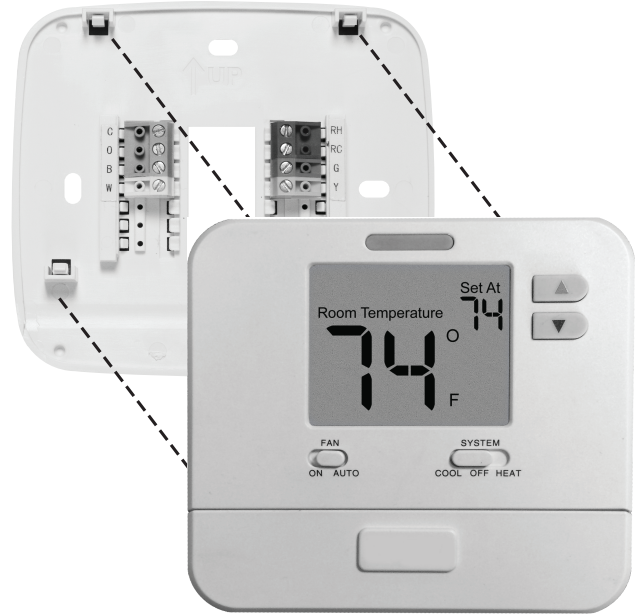
Swing Setting Tip

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.

INSTALLATION MOUNT THERMOSTAT & BATTERY INSTALLATION

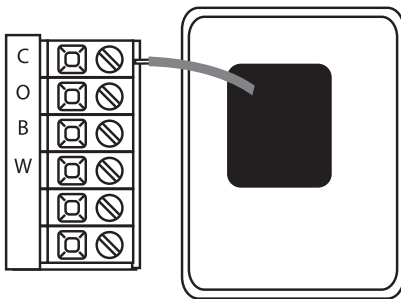
Mount Thermostat

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.



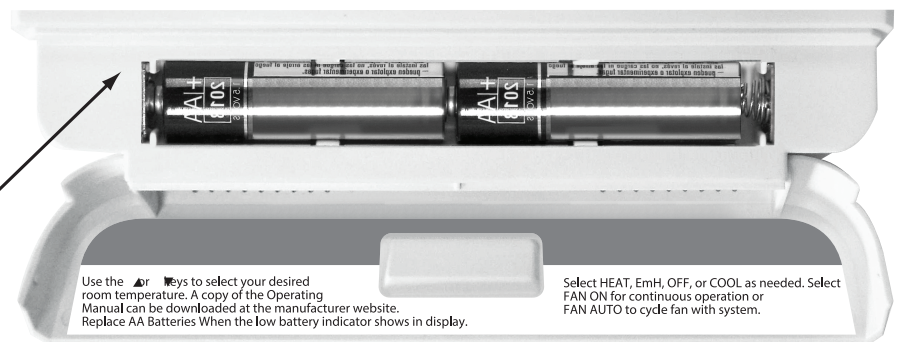
Battery Installation

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.



Insert 2 AA Alkaline batteries (included).

Simple operating instructions are found on the back of the battery door.

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)
Load rating	1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy	± 1°F
Swing (cycle rate or differential)	Heating is adjustable from 0.2°F to 2.0°F Cooling is adjustable from 0.2°F to 2.0°F
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire) Battery power from 2 AA Alkaline batteries
Operating ambient	32°F to +105°F (0° to +41°C)
Operating humidity.....	90% non-condensing maximum
Dimensions of thermostat	4.7"W x 4.4"H x 1.1"D