## **Installation Manual**



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

# Thermostat Application Guide

Description No Gas or Oil Heat No Electric Furnace Heat Pump (No Aux. or Emergency Heat) Yes Heat Pump (With Aux. or Emergency Heat) Yes Multi-Stage Systems No Heat Only Systems No Heat Only Systems - Floor or Wall Furnace No No Cool Only Systems

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## Specifications

The display range of temperature The control range of temperature Swing (cycle rate or differential)	. 44°F to 90°F (7°C to 32°C) Heating is adjustable from 0.2° to 2.0°
	Cooling is adjustable from 0.2° to 2.0°
Power source	.18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire
	Battery power from 2 AA Alkaline
	batteries
Operating ambient	
Operating humidity	. 90% non-condensing maximum
Dimensions of thermostat	4.7″W x 4.4″H x 0.8″D

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## **Installation Tips**

### **Mount Thermostat**

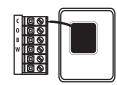
Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.



Rev. 1612CH

## **Battery Installation**

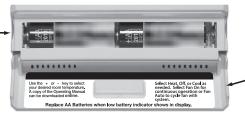
Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



## 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 door.

### Wall Locations

TP-N-721

Power Type

**Battery Power** 

**Battery Backup** 

product.

Hardwire (Common Wire)

A trained, experienced

Carefully read these

this product or cause a

technician must install this

instructions. You could damage

hazardous condition if you fail

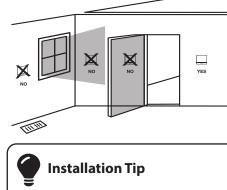
Una version en espanol de este

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

to follow these instructions.

Hardwire (Common Wire) with

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.

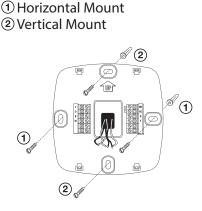


# Do not install

- 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

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

#### **Subbase Installation**



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.

(3) Fan switch

Label Badge

(5)

(4) System switch

**Removing The Private** 

Use the bevel on lower ridge

A Magnet in door

Easy change battery door

(6) Temperature setpoint buttons

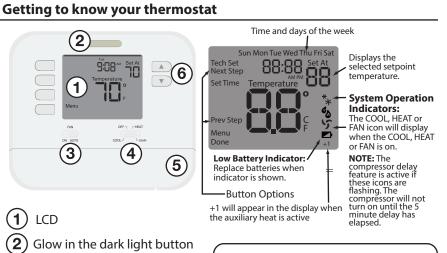
#### Installation Tip: Electrical Hazard

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.

# Thermostat Quick Reference

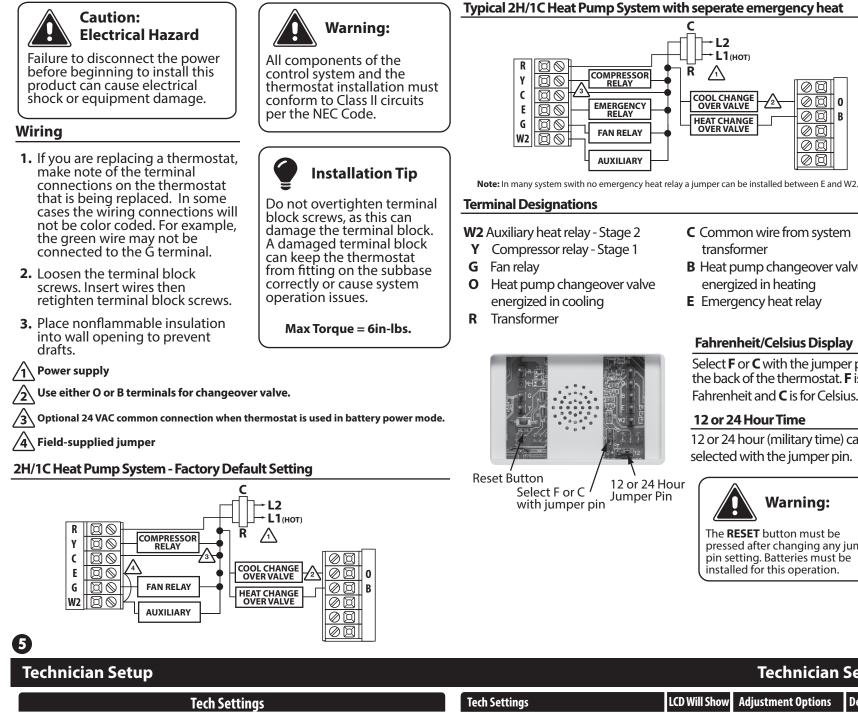




The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the screen will only show the low battery indicator but maintain all functionality. If the user fails to replace the batteries after an additional 21 days (days 22-42 since 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.

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.



Wiring

- Select OFF with the System Switch.
  Hold down the ▲ and ▼ buttons together for 3 seconds.
- 3. Use the ▲ and ▼ to change setting for that step, and the glow in the dark light button to move from one step to another.

dark light button to move from one step to another.					
Tech Settings	5	LCD Will Show	Adjustment Options	Default	
Filter Change Reminder	This feature will flash FILT in the display after the elapsed run time to remind the user change the filter. A setting of HEAT will disable this feature.	100 SE	You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments.	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.	off on RA	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.	OFF	
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	
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.	arco 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 at approximately 0.5° below the setpoint.	0.8	
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.	dexe O.S	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	

**Technician Setup** Adjustment Options Default Selectable ON or OFF. This option should be "ON" for "DUAL FUEL" applications that use a gas or other fossil fuel furnace for auxiliary When on, this feature turns off the Y terminal 45 seconds after the second stage of heat turns on. 00 Gas Auxiliary for Heat 86 OFF Pump heat. Use the ▲ or ▼ key to turn ON or OFF. This feature allows the thermostat 88 to keep multiple stages of heat energized until setpoint is satisfied. Satisfy OFF Setpoint This feature allows a delay to occur when a second stage is needed. This allows the previous stage extra time to satisfy setpoint. Use the ▲ or ▼ key to select OFF, 10, 15, 30, 45, 5 Staging 60, or 90 minutes. **OFF** 50 Delay

#### **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.

**Note:** The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached.

#### **Understanding Thermostat Staging**

Your thermostat will control two stages of heating. The thermostat will try to maintain your comfort setting using the first stage for energy efficiency. The second stage of heating will only be used if your thermostat cannot maintain your comfort setting using only one stage. When the second stage is used you will see stage2 in the display.

**Note:** Our standard staging logic, optional satisfy setpoint and optional staging delay allows for job by job customization that balences comfort, energy efficiency and equipment longevity.

#### Set Time

- 1.
- Press Menu Press SET TIME
- Day of the week will be flashing. Use the ▲ or ▼ key to select the current day of the week.
  Press NEXT STEP.
- The current hour is flashing use the ▲ or ▼ key to select the current hour. When using 12-hour time, make sure the correct AM or PM choice i
- Press NEXT STEP 7. Minutes are now flashing. Use the ▲ or ▼ key to select currrent
- minute
- 8. Press DONE when completed.

- C Common wire from system transformer
- **B** Heat pump changeover valve energized in heating
- E Emergency heat relay

#### 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.



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

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 $\oslash$ 

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