Installation Manual

# 701

## 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	Yes
Millivolt	Yes
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### Wiring Diagrams **Technician Setup**

#### **Specifications**

## for hardwire Battery power from 2 AA Alkaline batteries Dimensions of thermostat ...... 4.7"W x 4.4"H x 0.8"D

6

7-8

Power Type

product.

**Battery Power** 

**Battery Backup** 

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 español de este

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

to follow these instructions.

Hardwire (Common Wire) with

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## **Installation Tips**

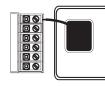
### **Mount Thermostat**

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.

# Set At

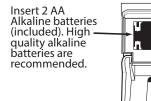
## **Battery Installation**

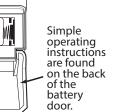
Battery installation is recommended even if thermostat is hardwired (C terminal connected). When thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when the thermostat detects a power outage from the hardwired power supply.



## Important:

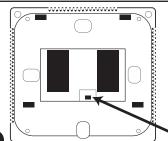
High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.





Rev. 1915

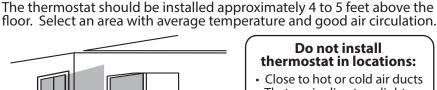
## Gas or Electric Setup



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 to he ELECTRIC position.

Select Heat, Off, or Cool as needed, Select Fan On for continuous operation or Fan Auto to cycle fan with system.

## **Fan Operation Switch**

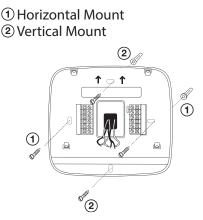


**Wall Locations** 

## X IIIII **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.

## **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.

#### 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: **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** Displays the selected setpoint 88 temperature. 0

System Operation Indicators: The COOL ON, HEAT ON or S icon will display when the COOL, HEAT, or S HEATON LOW (fan) is on. ow Battery Indicator: NOTE: The Replace batteries when indicator is shown. compressor delay feature is active if these icons are Indicates the current flashing. The compressor will not turn on until the 5 room temperature. minute delay has

elapsed.

2

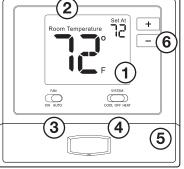
## Important

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 The low battery indicator is displayed when the avoid freezing or overheating because the thermostat will shut the unit off until the batteries are changed.

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



## Getting to know your thermostat



(2) Glow in the dark light button

Easy change battery door

(6) Temperature setpoint buttons

(**1**) LCD

(5)

(**3**) Fan switch

Label Badge

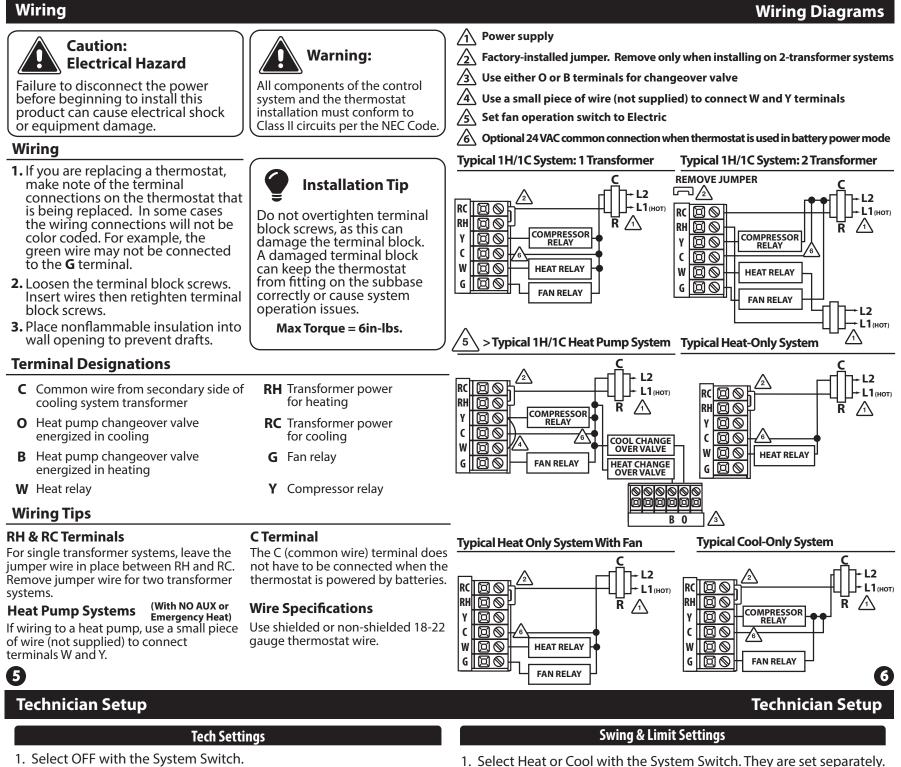
(**4**) System switch

**Removing The Private** 

Use the bevel on lower ridge

Magnet in door

About The Badge



- 2. Hold down the + and buttons together for 3 seconds. Use the + and - to change setting for that step, and the glow in the 3.
- dark light button to move from one step to another.

### To exit Tech Settings, slide the System Switch to a different position or wait approximately 20 seconds.

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.		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 prevents the compressor from switching on and off too often.	63 60	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 Fahrenheit temperature read out or select C for Celsius read out.		F for Fahrenheit C for Celsius	F

- 1. Select Heat or Cool with the System Switch. They are set separately.
- 2. 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.

## To exit Swing & Limit Settings, slide the System Switch to a different position or wait approximately 20 seconds.

Swing & Limit Settings		LCD Will Show	Adjustment Options	Default
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.	 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.	0.5
Cooling Setpoint Limit	This feature allows you to set a minimum cool setpoint value. The setpoint temperature can't be lowered below this value.		Use the 🛨 and 🖃 key to select the minimum cool setpoint.	44
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.	HE HE	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
Heating Setpoint Limit	This feature allows you to set a maximum heat setpoint value. The setpoint temperature can't be raised above this value.	90	Use the 主 and 🖃 key to select the maximum heat setpoint.	90

## **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 wide as possible without making the occupants uncomfortable.

## **Operation Manual**

## **Operation Manual**

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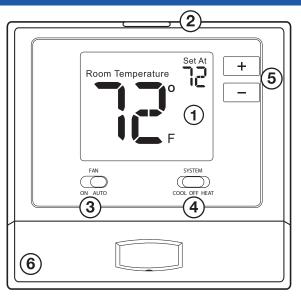
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Page

Equipment damage hazard. Do not operate the cooling system if the outdoor temperature is below 50 °F (10 °C) to prevent possible compressor damage.

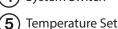
#### **Thermostat Operation**



LCD Display
Glow in the dark light button

**3**) Fan Switch

4 System Switch



Temperature Setpoint Buttons

6) Easy change battery door

## 1 LCD Display

See page 6 for details about this display read out.

## Glow in the dark light button

The glow in the dark light button will self illuminate for several hours after exposure to ambient light. This button turns on the display light when pressed.

## **3** Fan Switch

Select **ON** or **AUTO**. **ON** will run the fan continuously. **AUTO** will cycle the fan on only when the heating or cooling system is on.

## 4 System Switch

Selects the operation mode on your HVAC system. Selecting **HEAT** turns on the heat mode. Selecting **COOL** turns on the cool mode. Selecting **OFF** turns both heating and cooling off.

## (5) Temperature Setpoint Buttons

Press the + or - buttons to select the desired room temperature.



#### **Battery Door Information**

Replace with 2 AA Alkaline Batteries, High quality Alkaline batteries are ..... ......... recommended. Use the + or - key to select Select Heat, Off, or Cool as needed. Select Fan On for continuous operation or Fa Auto to cycle fan with your desired room temperature. A copy of the Operating Manual Replace AA Batteries when low battery indicator shows in display Simple operating instructions are found on the back of the battery door.

Use the finger bevel on the lower portion of the thermostat to open the easy access battery door.

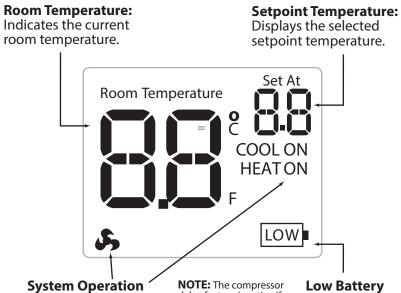


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When the battery icon when the battery icon batteries immediately. Failure to do so may result in your heating & cooling system becoming inopérable. Freezing or overheating can occur.

### **Thermostat Quick Reference**



## Indicators:

The COOL ON, HEAT ON or **S** icon will display when the COOL, HEAT or  $\mathcal{S}_{\mathbf{s}}$  (fan) is on.

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.

#### **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. You can register your new thermostat in 2 ways:

#### Online

Go to the proliag.com, select warranty registration and fill out a short registration form.

#### Mail

Complete the form below and mail it to the address shown.

#### **Warranty Registration**

Name: Address:	
City: State: Zip:	

Thermostat Model:
Date Installed:
Complete form and mail to:
Thermostat Warranty Registration
P.O. Box 3377
Springfield, MO 65808-3377

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## Cut Out For Warranty Registration