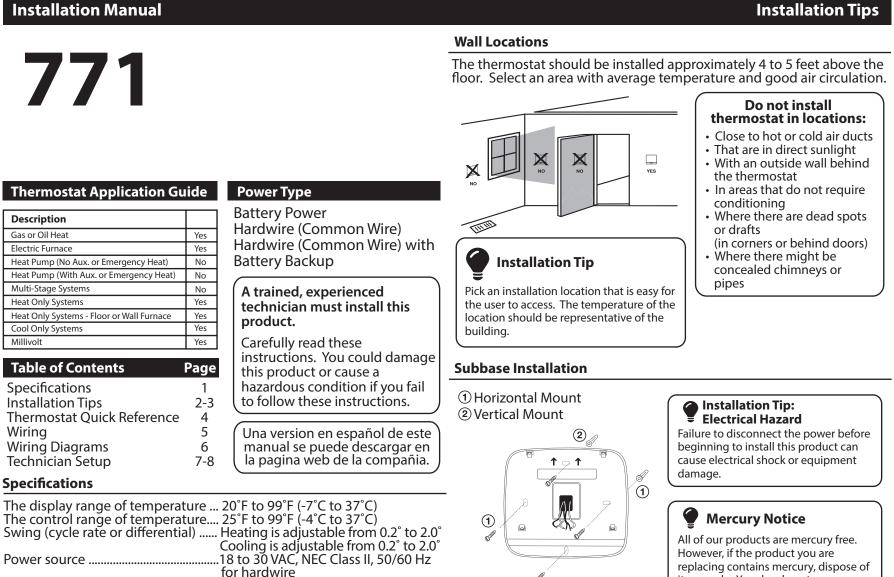
Installation Manual



for hardwire Battery power from 2 AA Alkaline batteries Operating ambient 20°F to +105°F (-7°C to +41°C) Dimensions of thermostat 4.7"W x 4.4"H x 1.1"D

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Installation Tips

Mount Thermostat

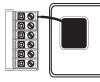
Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.

25 rGh

Rev. 1918

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.



Alkaline batteries (included). High – quality alkaline

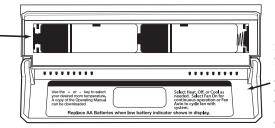
Insert 2 AA

batteries are

recommended.

Important:

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





Getting to know your thermostat

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and one screw on the bottom

left and one screw on the right.

For vertical mount put one screw on the top

For horizontal mount put one screw on the

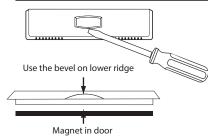
2 Set At $(\mathbf{6})$ 0 1 5, Õ 3 4 (5)

(**1**) lcd

- (2) Glow in the dark light button
- (3) Fan switch
- (4) System switch
- (5) Easy change battery door

(6) Temperature setpoint buttons

Removing The Private Label Badge



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.



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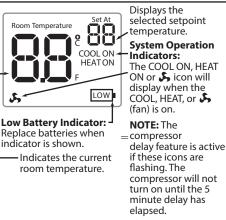
replacing contains mercury, dispose of

management authority can give you

instructions on recycling and proper

it properly. Your local waste

disposal.

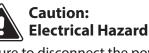




The low battery icon is displayed when the AA battery power is low. Whenever the thermostat detects low battery voltage from the AA batter-ies, the low battery icon will begin flashing on the screen ftor 21 days (if the batteries are not changed). If the batteries are not changed 22 days after the thermostat 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 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed and the set points will offset to 85°F/29°C in cooling and 55°F/13°C in heating. At 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 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.

Wiring

Wiring Diagrams



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

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 ťo the **G** termińal.
- 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

- **RH** Transformer power for heating
- RC Transformer power for cooling
- Y/W Heat relay or Compressor relay
- Common wire from system transformer С
- G Fan relay



Do NOT remove the jumper pin. The jumper pin is required for both heating and cooling applications.

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Technician Setup

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
1. Select OFF with the System Switch.	ther for 3 sec	onds	

- buttons together for
- 3. Use the + and button to change setting for that step, and the glow in the dark button to move from one step to another. Toggle system switch when done.

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 $+2$.	CR Cr F	You can adjust the room temperature display to read up to 4° above or below the factory calibrated reading.	0°F
Compressor Short Cycle Delay	The compressor short cycle delay prevents the compressor from switching on and off too often.	63 ПП	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.	FC FC	F for Fahrenheit C for Celsius	F
Heat or Cool	This feature allows the installer to configure the thermostat for Heat only or Cool only operation. Note: When in COOL mode ELEC switch must be turned on. Warning: Compressor may freeze if the FAN is not ON, make sure you are in ELEC mode while in COOL mode.	HE	Heat or Cool HE - HEAT CO - COOL	HE

Installation Tip

Warning:

All components of the control system and the thermostat

installation must conform to

Class II circuits per the NEC Code.

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.





Optional 24 VAC common connection when thermostat is used in battery power mode

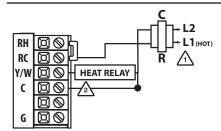
Wiring Tips

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

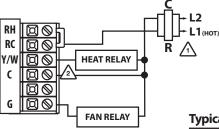
Wire Specifications

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

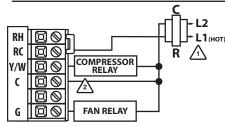
Typical Heat Only System



Typical Heat Only System With Fan







Technician Setup

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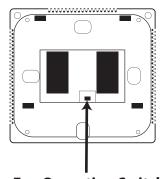
Selecting Heat or Cool

Select ON with the System Switch. 1.

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

button to move nom one step to another. Toggie system switch when done.					
	Tech Setup St	eps	LCD Will Show	Adjustment Options	Default
	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. (reference the Technician Setup Menu steps above for how to enter this Menu)	55 <mark>[].4</mark>	The swing setting is adjustable from 0.2° to 2°. For example: A swing setting of 0.5 will turn the system on and off at approximately 0.5° away from the setpoint. Only the swing for the selected mode (Heat or Cool)is displayed in the menu.	0.4
	Temperature Setpoint Limit	This feature allows you to set a maximum heat setpoint valve. The setpoint temperature cannot be raised above this value. You can also set a minimum cool setpoint value if in cool mode.	51	Use the + or - key to select the maximum heat setpoint or the minimum cool depending on the selected mode (Heat or Cool).	25 [°]
					99°

Gas or Electric Setup



Electric: For installations that control the fan during a call (for cool or heat), move the fan operation switch to the ELECTRIC position.

Gas: For installations that do NOT control the fan during a call (for cool or heat), move the fan operation switch to the GAS position.

NOTE: When in COOL mode the FAN icon will flash if the switch is in GAS mode. This flash is a reminder to select ELEC to engage the fan with the compressor.

Fan Operation Switch

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Operation Manual

Operation Manual

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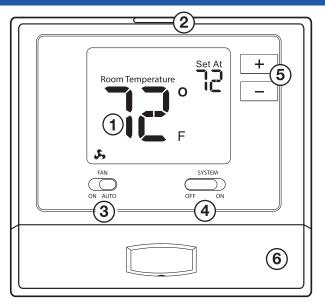


Page

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

Fan Switch

System Switch

Temperature Setpoint Buttons 5

Easy change battery door 6

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.

System Switch (4)

Selects the operation mode of your HVAC system. Selecting **ON** turns on either the heating or cooling. Selecting **OFF** turns off heating or cooling. Your thermostat is configured for either heat or cool.

(5) **Temperature Setpoint Buttons**

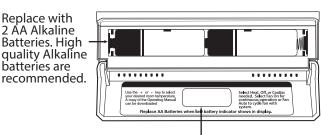
Press the + or - buttons to select the desired room temperature.



6 See page 4 for details.

Battery Door Information

2 AA Alkaline Batteries, High quality Alkaline batteries are recommended.



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.

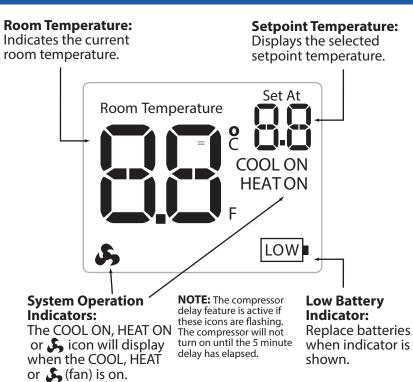


When the battery icon of appears replace your AA batteries immediately. Failure to do so may result in your heating & cooling system becoming inopérable. Freezing or overheating can occur.



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 voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed and the set points will offset to 85°F/29°C in cooling and 55°F/13°C in heating. At 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.

Thermostat Quick Reference



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 company website, 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
-	Pro1iaq
-	P.O. Box 3377
	Springfield, MO 65808-3377

Cut Out For Warranty Registration