

## Installation Guide

### **PRO TH2000DV/TH1000DV Series**

#### Thermostats

#### **This manual covers the following models**

- TH1100DV: For Heat only systems
- TH2110DV/TH1110DV: For 1 Heat/1 Cool systems
- TH2210DV/TH1210DV: For 2 Heat/1 Cool heat pump systems only

(Pull thermostat from wallplate and turn over to find model number.)

#### **System Types**

##### **TH2110DV/TH1110DV:**

- Gas, oil, or electric heat with air conditioning
- Warm air, hot water, high-efficiency furnaces, 1 Heat/1 Cool heat pumps, steam, gravity
- Heat only
- Heat only with fan
- Cool only
- 750 mV heating systems

##### **TH2210DV/TH1210DV:**

- 2 Heat/1 Cool heat pumps

##### **TH1100DV:**

- Gas, oil, or electric heat
- Warm air, hot water, steam, gravity
- Heat only
- 750 mV heating systems

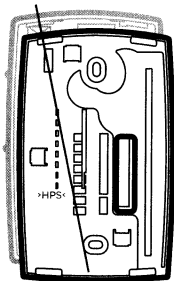
#### **Must be installed by a trained, experienced technician**

Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.



## Wallplate installation

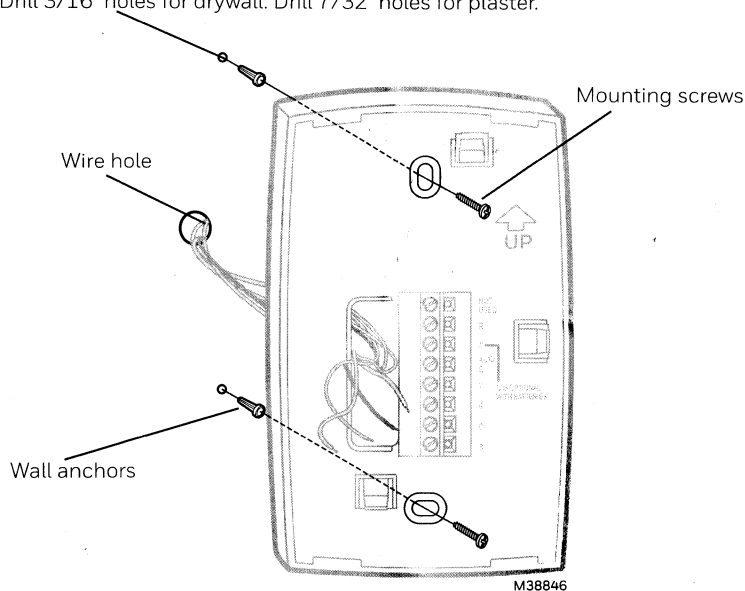
Pull at bottom to remove thermostat from wallplate.



Remove the wallplate from the thermostat as shown at left, then follow directions below for mounting.

1. Pull wires through wire hole.
2. Position wallplate on wall, level and mark hole positions with pencil.
3. Drill holes at marked positions as shown below, then tap in supplied wall anchors.
4. Place wallplate over anchors, insert and tighten mounting screws.

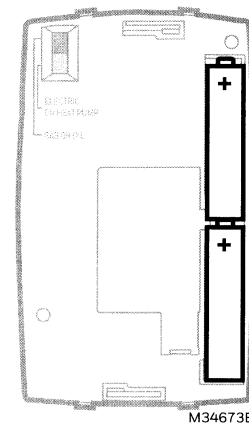
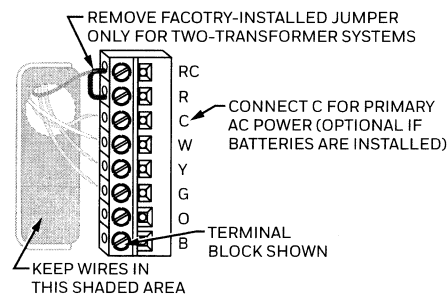
Drill 3/16" holes for drywall. Drill 7/32" holes for plaster.



**CAUTION: ELECTRICAL HAZARD**  
Can cause electrical shock or equipment damage. Disconnect power before beginning installation.

**MERCURY NOTICE**  
If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Contact the Thermostat Recycling Corporation at [www.thermostat-recycle.org](http://www.thermostat-recycle.org) or 800-238-8192 for information on how and where to properly and safely dispose of your old thermostat.

## Power options



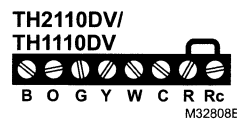
Note: Terminals vary by model.

## Wiring

### Terminal designations

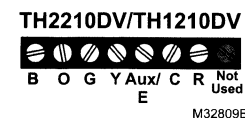
#### TH2110DV/TH1110DV:

- B** Changeover valve energized in heating
- O** Changeover valve energized in cooling
- G** Fan relay
- Y** Compressor contactor
- W** Heat relay
- C** 24 Vac common. For 2-transformer systems, use common wire from cooling transformer.
- R** 24 Vac power from heating transformer
- Rc** 24 Vac power from cooling transformer



#### TH2210DV/TH1210DV:

- B** Changeover valve energized in heating
- O** Changeover valve energized in cooling
- G** Fan relay
- Y** Compressor contactor
- Aux/E** Auxiliary heat relay
- C** 24 Vac common
- R** 24 Vac power



#### TH1100DV:

- W** Heat relay
- C** 24 Vac common
- R** 24 Vac power



# Wiring

## Wiring guide – conventional and heat pump systems

**2H/1C Heat Pump System**  
**TH2110DV/TH1210DV**  
 M32809B

- B** Changeover valve energized in heating [5]
- O** Changeover valve energized in cooling [5]
- G** Fan relay
- Y** Compressor contactor
- Aux/E** Auxiliary heat relay
- C** 24 Vac common [3]
- R** Power [1]

**1H/1C Heat Pump System**  
**TH2110DV/TH110DV [7]**  
 M32813

- B** Changeover valve energized in heating [5]
- O** Changeover valve energized in cooling [5]
- G** Fan relay
- Y** Compressor contactor [6]
- W** [W+Y joined by jumper]
- C** 24 Vac common [3]
- R** [R+Rc joined by jumper]
- Rc** Power [1]

**1H/1C System**  
**TH2110DV/TH110DV**  
 (1 transformer)  
 M32811

- G** Fan relay
- Y** Compressor contactor
- W** Heat relay
- C** 24 Vac common [3]
- R** [R+Rc joined by jumper]
- Rc** Power [1]

**Heat Only System**  
**TH2110DV/TH110DV**  
 M32814

- W** Heat relay
- C** 24Vac common [3]
- R** [R+Rc joined by jumper]
- Rc** Power [1]

**1H/1C System**  
**TH2110DV/TH110DV**  
 (2 transformers)  
 M32812

- G** Fan relay
- Y** Compressor contactor
- W** Heat relay
- C** 24 Vac common [3, 4]
- R** Power (heating transformer) [1, 2]
- Rc** Power (cooling transformer) [1, 2]

**Heat Only System with Fan**  
**TH2110DV/TH110DV**  
 M32815

- G** Fan relay
- W** Heat relay
- C** 24 Vac common [3]
- R** [R+Rc joined by jumper]
- Rc** Power [1]

**Heat Only System**  
**TH1100DV**  
 M34801

- W** Heat relay
- C** 24Vac common [3]
- R** Power [1]

See [notes] below

### NOTES

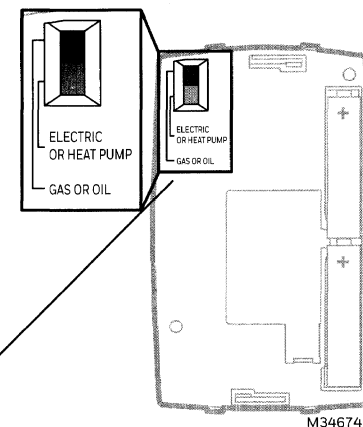
- Wire specifications:  
 Use 18- to 22-gauge thermostat wire.  
 Shielded cable is not required.
- [1] Power supply. Provide disconnect means and overload protection as required.
  - [2] Remove jumper for 2-transformer systems.
  - [3] Optional 24 Vac common connection.

- [4] Common connection must come from cooling transformer.
- [5] Use either (O) or (B) terminals for changeover valve.
- [6] Use a small piece of wire (not supplied) to connect W and Y terminals.
- [7] Set fan operation switch to **Heat Pump** (see page 5).

# Fan operation settings

## TH2110DV/TH110DV only:

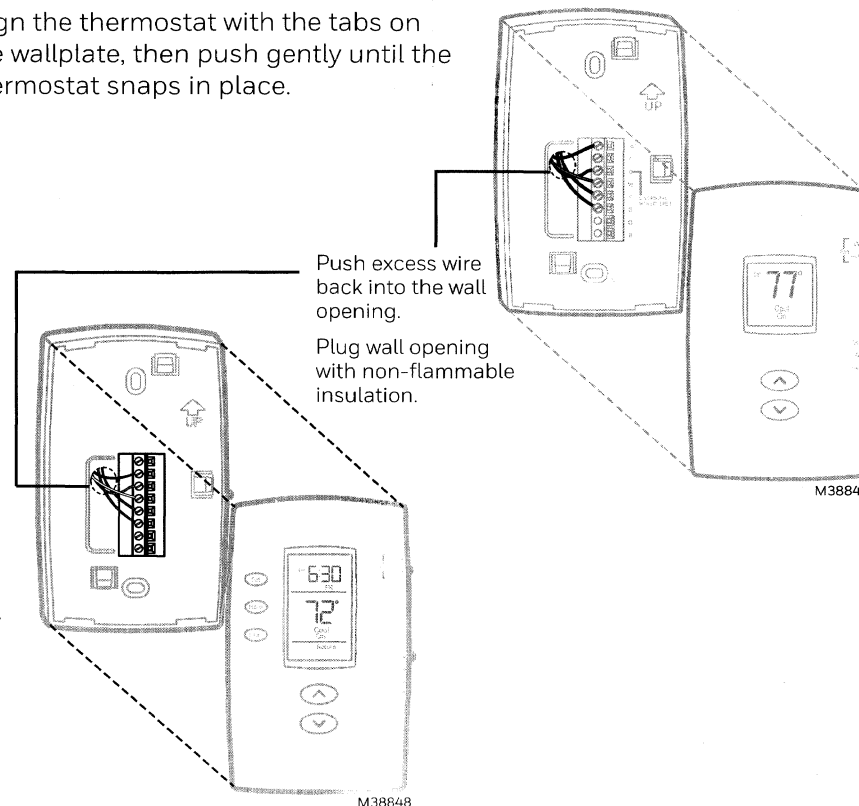
- **Gas or Oil:** For gas or oil heating systems, leave the fan operation switch in this factory-set position. (This setting is for systems that control the fan in a call for heat.)
- **Electric or Heat Pump:** Change the switch to this setting for heat pump or electric heat systems. (This setting is for systems that allow the thermostat to control the fan in a call for heat, if a fan wire is connected to the **G** terminal.)



Set fan operation switch.

## Thermostat mounting

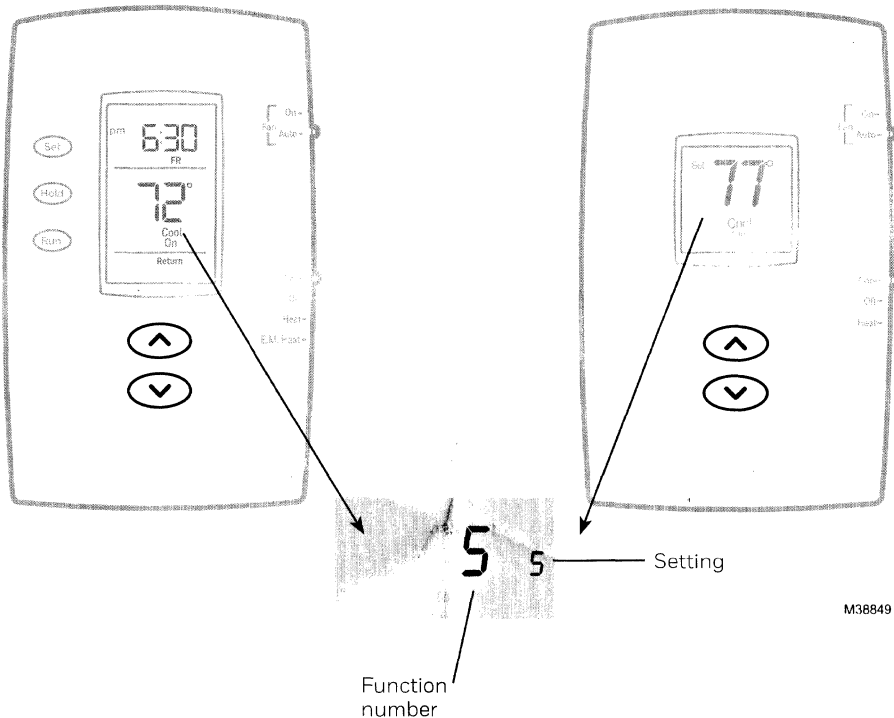
Align the thermostat with the tabs on the wallplate, then push gently until the thermostat snaps in place.



## Installer setup

Follow the procedure below to configure the thermostat to match the installed heating/cooling system, and customize feature operation as desired.

To begin, press and hold the ▲ and ▼ buttons until the display changes.



Press the ▲ or ▼ button to change the setting.

Press the ▲ and ▼ buttons simultaneously for one second to advance to the next function.

Press and hold the ▲ and ▼ buttons to exit and save settings.

**NOTE:** If you do not press any button for 60 seconds while you are in the setup menu, the thermostat automatically saves any changes made and exits the menu.

## Installer setup

**NOTE:** The options below may not be available in all models.

Setup function	Settings & options (factory default in bold)
<b>5 Heating cycle rate (CPH: cycles/hour) (TH2110DV, TH1110DV and TH1100DV)</b>	<b>5 For gas or oil furnaces of less than 90% efficiency</b> 1 For steam or gravity systems 3 For hot water systems & furnaces of over 90% efficiency 6 For electric furnaces [Other cycle rate options: 2 or 4 CPH]
<b>6 Auxiliary heat cycle rate (CPH) (TH2210DV and TH1210DV)</b>	<b>3 For hot water systems &amp; furnaces of over 90% efficiency</b> 1 For steam or gravity systems 5 For gas or oil furnaces of less than 90% efficiency 6 For electric furnaces [Other cycle rate options: 2 or 4 CPH]
<b>9 Compressor cycle rate (CPH) (TH2110DV, TH2210DV, TH1110DV, TH1210DV)</b>	<b>3 Recommended for most compressors</b> [Other cycle rate options: 1, 2, 4, 5, or 6 CPH]
<b>13 Early Start (TH2110DV and TH2210DV)</b>	<b>1 On **See page 8</b> 0 Off
<b>14 Temperature display</b>	<b>0 Fahrenheit</b> 1 Celsius
<b>15 Compressor protection (TH2110DV, TH2210DV, TH1110DV, TH1210DV)</b>	<b>1 Five-minute compressor off time (See page 8)</b> 0 No compressor off time
<b>20 Clock display (TH2110DV and TH2210DV)</b>	<b>0 12-hour display</b> 1 24-hour display
<b>25 Lower temperature range (TH1100DV only)</b>	<b>0 Standard range 40°F to 90°F (4.5°C to 32°C)</b> 1 Lower range (for garage mode) 35°F to 90°F (1.5°C to 32°C)
<b>40 Restore program schedule to default (TH2110DV and TH2210DV)</b>	<b>0 Off</b> 1 On - program schedule default settings are listed in the operating manual



### CAUTION: EQUIPMENT DAMAGE HAZARD

Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.



### CAUTION: ELECTRONIC WASTE NOTICE

The product and batteries should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent negative consequences for the environment and human health.

FCC statement at: <https://customer.resideo.com/en-US/support/residential/codes-andstandards/FCC15105/Pages/default.aspx>

## Special functions

**Early Start** (Setup Function 13): Early start allows the heating or cooling to turn on before the program start time, so the temperature is reached at the time you set.

**Compressor Protection** (Setup Function 15): Forces the compressor to wait a few minutes before restarting, to prevent damage. During the wait time, the message Cool On or Heat On (heat pumps only) will flash on the display.

## Accessories & replacement parts

**Please contact your distributor to order replacement parts.**

**Cover plate assembly\*** ..... Part Number 50002883-001

\*Use to cover marks left by old thermostats.

## Specifications

### Temperature Ranges

- Heat: 40° to 90°F (4.5° to 32°C)
- Cool: 50° to 99°F (10° to 37°C)

### Operating Ambient Temperature

- 32° to 120°F (0° to 48.9°C)

### Shipping Temperature

- -20° to 120°F (-28.9° to 48.9°C)

### Operating Relative Humidity

- 5% to 90% (non-condensing)

### Physical Dimensions

- 3-7/16"H x 4-10/16"W x 1-3/16"D  
87mm H x 119mm W x 30mm D

### Electrical Ratings

System	Voltage (50/60Hz)	Running Current
Heat (1st stage) (Powerpile)	20-30 Vac 750 mV DC	0.02-1.0 A 100 mA DC
Auxiliary heat	20-30 Vac	0.02-1.0 A
Cooling	20-30 Vac	0.02-1.0 A



**resideo**

Resideo Inc., 1985 Douglas Drive North  
Golden Valley, MN 55422

[www.resideo.com](http://www.resideo.com)

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**PRO 1000 Thermostat  
Non-Programmable**

Heat Only  
Battery or Hardwired

**PRO 1000 Thermostat  
Non programmable**

Chauffage uniquement  
À piles ou câblée

**PRO 1000 Termostato  
No programable**

Únicamente calor  
De baterías o cableado

# Honeywell Home

## PRO 1000 Thermostat/Temostato

Non programmable / No programable

Chauffage uniquement

À piles ou câblée

Únicamente calor

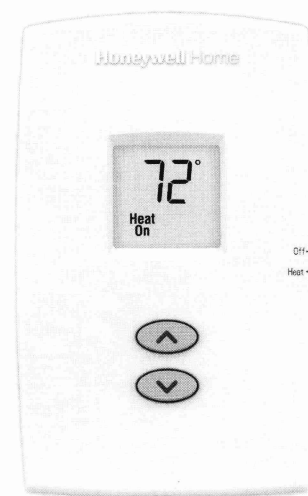
De baterías o cableado

**Pour installation par  
un professionnel seulement**

Garantie professionnelle de 2 ans s'annule  
si le propriétaire fait l'installation.

**Para instalación profesional únicamente**

Si lo instala un propietario, se anula la garantía profesional de dos años.



Taille réelle : / Tamaño real:  
120 mm x 74 mm x 28 mm

TH1100DV1000

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www.resideo.com

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1985 Douglas Drive North  
Golden Valley, MN 55422  
Country of origin: Mexico  
Pays d'origine: Mexique  
País de origen: México

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Resideo.com | 1-800-468-1502

TH1100DV1000



## PRO 1000 Non-Programmable Thermostat

**Type**

Non-Programmable Thermostat

**Stages**

Heat Only

**Power Method**

Battery or Hardwired

**Features**

Lower Range (for garage mode) 35°F to 90°F (1.5°C to 32°C)

Precise Comfort Control +/-1°F

Backlit Display

2 AAA Batteries Included

Premier White™

2-year Warranty

# Honeywell Home

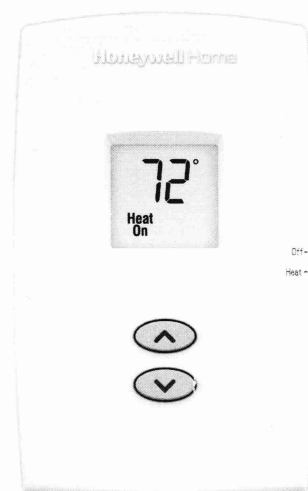
## PRO 1000 Thermostat

Non-Programmable

Heat Only

Standard and Low Temperature Scale

Battery or Hardwired



Actual size  
4.69" h x 2.88" w x 1.12" d

TH1100DV1000

## PRO 1000 Thermostat non programmable/Termostato no programable

**Type / Tipo**

Thermostat non programmable  
Termostato no programable

**Étages / Etapas**

Chauffage uniquement

Únicamente calor

**Méthode d'alimentation /  
Método de alimentación**

À piles ou câblée / De baterías o cableado

**Caractéristiques**

Gamme faible  
(pour le mode garage)  
1,5 ° à 32 °C (35 ° à 90 °F)

Régulateur de confort  
précis +/- 0.5 °C

Affichage rétroéclairé

2 piles AAA, comprises

Premier White™ (blanc)

Garantie de 2 ans

**Características**

Rango más bajo  
(para el modo garaje)  
35°F a 90°F (1.5°C a 32°C)

Control de confort  
preciso +/- 1°F

Luz de fondo

2 baterías AAA, incluidas

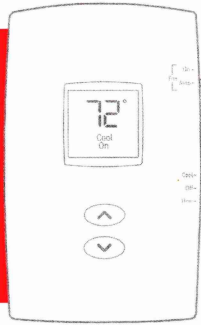
Premier White™ (blanco)

2 años de garantía



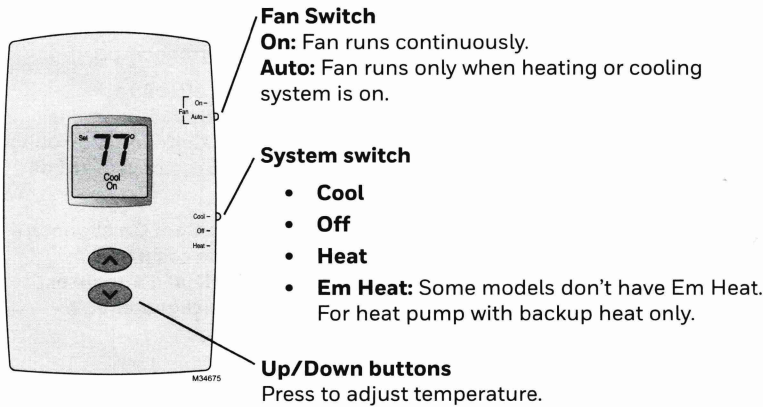
## Non-Programmable Thermostat

## Product Information

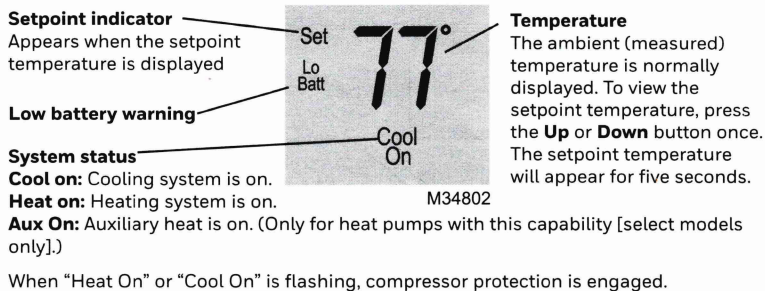


Read and save these instructions

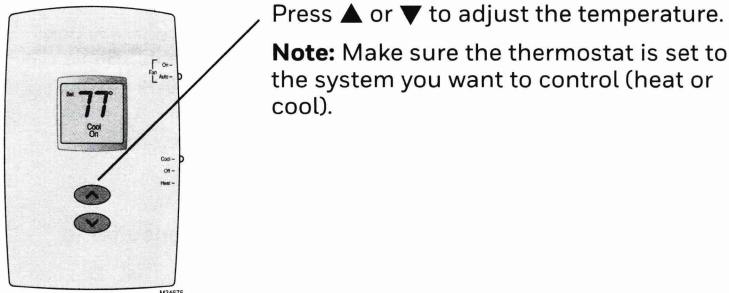
### Quick reference to controls



### Quick reference to display screen



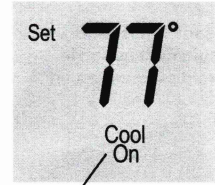
### Adjust the temperature



# PRO 1000 Series

- TH1100DV:** For 1 Heat systems
- TH1110DV:** For 1 Heat/1 Cool systems
- TH1210DV:** For 2 Heat/1 Cool heat pump systems

### Built-in compressor protection



Message flashes until safe restart time has elapsed.

This feature helps prevent damage to the compressor in your air conditioning or heat pump system.

Damage can occur if the compressor is restarted too soon after shutdown. This feature forces the compressor to wait 5 minutes before restarting.

During the wait time, the display will flash the message Cool On (or Heat On if you have a heat pump model). When the safe wait time has elapsed, the message stops flashing and the compressor turns on.

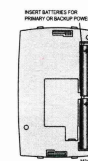
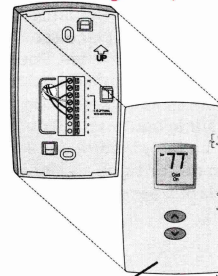


#### CAUTION

##### Equipment damage hazard

To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F (10°C).

### Battery replacement



Turn thermostat over, insert fresh AAA alkaline batteries, then reinstall thermostat.

Install two fresh AAA batteries when **Lo Batt** flashes on the screen. **Lo Batt** appears for 60 days before the batteries are depleted.

Replace batteries once a year, or when you will be away for more than a month.

The settings are stored in non-volatile (permanent) memory and are thus preserved when the thermostat is without batteries.

### Product Manuals

Search online for **Resideo 69-2798EFS** for the User Guide.

### Electrical Ratings

System	Voltage (50/60Hz)	Running Current
Heat (1st stage)	20-30 Vac	0.02-1.0 A
(Powerpile)	750 mV DC	100 mA DC
Auxiliary heat	20-30 Vac	0.02-1.0 A
Cooling	20-30 Vac	0.02-1.0 A

### Need Help?

For assistance please visit  
[honeywellhome.com](http://honeywellhome.com)  
 or call toll-free: **1-800-468-1502**



## In case of difficulty

If you have difficulty with your thermostat, please try the following suggestions. Most problems can be corrected quickly and easily.

<b>Display is blank</b>	<ul style="list-style-type: none"><li>• Check circuit breaker and reset if necessary.</li><li>• Make sure power switch at heating &amp; cooling system is on.</li><li>• Make sure furnace door is closed securely.</li><li>• Make sure fresh AAA alkaline batteries are correctly installed.</li></ul>
<b>Heating or cooling system does not respond</b>	<ul style="list-style-type: none"><li>• Set system switch to <u>Heat</u>. Make sure the temperature is set higher than the Inside temperature.</li><li>• Set system switch to <u>Cool</u>. Make sure the temperature is set lower than the Inside temperature.</li><li>• Wait 5 minutes for the system to respond.</li></ul>
<b>Temperature settings do not change</b>	Make sure heating and cooling temperatures are set to acceptable ranges: <ul style="list-style-type: none"><li>• Heat: 40° to 90°F (4.5° to 32°C).</li><li>• Cool: 50° to 99°F (10° to 37°C).</li></ul>
<b>“Heat On” or “Cool On” is flashing</b>	<ul style="list-style-type: none"><li>• Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor .</li></ul>
<b>“Heat On” is not displayed</b>	<ul style="list-style-type: none"><li>• Set the System switch to <u>Heat</u>, and set the temperature level <u>above</u> the current room temperature.</li></ul>
<b>“Cool On” is not displayed</b>	<ul style="list-style-type: none"><li>• Set the System switch to <u>Cool</u>, and set the temperature level <u>below</u> the current room temperature.</li></ul>



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