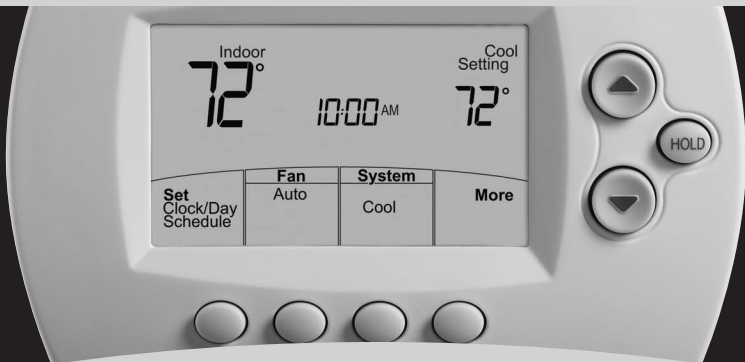


# Operating Manual



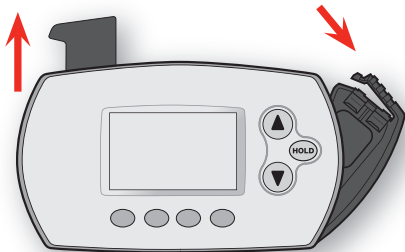
**MRCH1 Remote Controller**



69-2427EFS-01

## Quick Reference Card

Grasp and pull to see basic operating instructions at a glance.



M28450A

## Battery Holder

Press down and pull to remove batteries.

Batteries should be replaced once a year (see page 28).



**CAUTION: EQUIPMENT DAMAGE HAZARD.** Please refer to the equipment Operating Manual for recommended operating temperatures.

## Need Help?

For assistance with this product please visit <http://controls.mehvac.com>  
or call Mitsubishi Electric toll-free at **888-990-7546**

## Read and save these instructions.

## **Contents**

---

### **About your new remote controller**

|                                       |   |
|---------------------------------------|---|
| Programming at a glance.....          | 2 |
| Quick reference to controls .....     | 3 |
| Quick reference to display screen.... | 4 |

### **Programming & Operation**

|                                   |    |
|-----------------------------------|----|
| Set the time and day .....        | 5  |
| Select the fan setting .....      | 6  |
| Select the system setting.....    | 7  |
| Multi-zone configurations .....   | 8  |
| Drying mode .....                 | 9  |
| Program schedules .....           | 10 |
| Program schedule overrides.....   | 13 |
| System changeover.....            | 17 |
| Portable Central Controller ..... | 18 |
| Outdoor air sensor .....          | 19 |
| Additional features .....         | 20 |

### **Appendices**

|                             |    |
|-----------------------------|----|
| Advanced functions.....     | 24 |
| Battery replacement .....   | 28 |
| In case of difficulty ..... | 31 |
| Regulatory information..... | 32 |
| Limited warranty .....      | 33 |

## About your remote controller

---

Your new remote controller is pre-programmed and ready to go. All you have to do is set the time and day. Then check the settings below and change if needed:

1. **Set time and day (required for proper operation)** ..... See page 5
2. **Select fan setting** ..... See page 6
3. **Select system setting** ..... See page 7
4. **Program schedules:** Preset to energy-saving levels while space is occupied (assumes arrival at 8 am and departure at 10 pm) ..... See pages 10-11



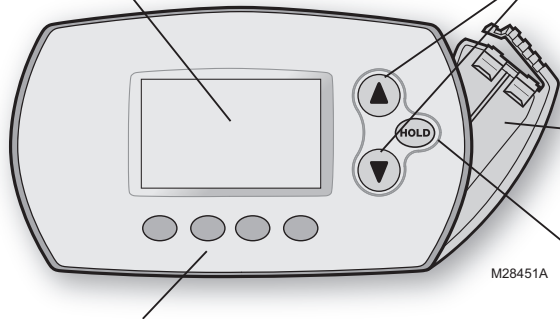
**ONE TOUCH TEMP CONTROL:** You can override the program schedule at any time, and manually adjust the temperature (see pages 13-16).

## Quick reference to controls

---

**Digital display** (see page 4)

**Temperature buttons**  
Press to adjust temperature settings



**Battery holder** (see page 28)

**Hold button**  
Press to override programmed temperature control (see page 16)

**Function buttons**

Press to select the function displayed just above each button.  
(Functions change depending on the task.)

## Quick reference to display screen

### Optimal Start

(see page 23)

### Current inside temperature

Current program period occupied/unoccupied or Wake/Leave/Return/Sleep (see pages 10-11)

### Set Clock/Day/Schedule

(see pages 5 and 12)

### Low battery warnings

(see page 28)

### Current time

(see page 5)

### Temperature setting

(see pages 12-16)

### Locked

(see page 23)

### More

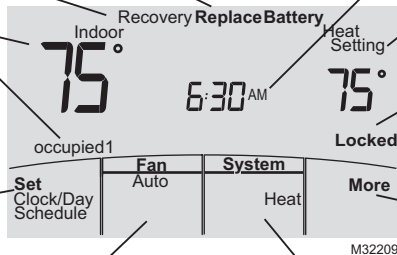
(see pages 20-23)

### Fan Setting

Auto/On/Selectable (see page 6)

### System setting

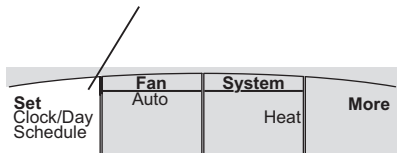
Cool/Heat/Drying/Auto/Off (see page 7)



**Note:** Options may vary depending on your equipment.

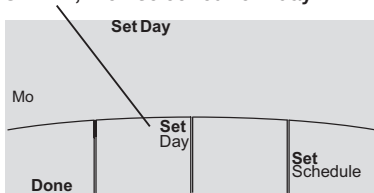
## Set the time and day

Press **SET CLOCK/DAY/SCHEDULE**, then adjust time



M32218

Press **SET DAY**, then select current day



M32211

1. Press **SET CLOCK/DAY/SCHEDULE**, then press ▲ or ▼ to set clock.
2. Press **SET DAY**, then press ▲ or ▼ to select the day of week.
3. Press **DONE** to save.

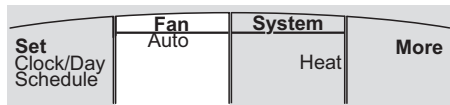


**Note:** If the **SET CLOCK/DAY/SCHEDULE** option is not displayed, press **DONE** or **CANCEL**.

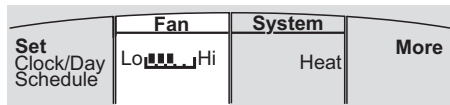


**Note:** If the display flashes “Set Clock,” the remote controller will follow your settings for the weekday “occupied1” (or “Wake”) time period until you reset the time and day.

## Select the fan setting



M32212



M32213



**Note:** Selectable fan speed options may vary depending on your equipment.

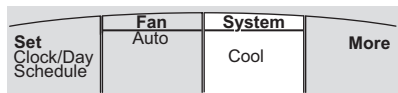
Press **FAN** to select Auto or selectable fan speed.

In “Auto” fan mode the equipment determines the optimal fan speed to meet the set temperature.

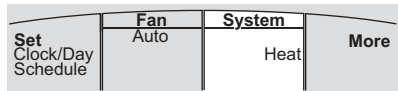
When system switch is “Off”, press **FAN** to circulate air. The fan will run at the user’s selected fan speed.



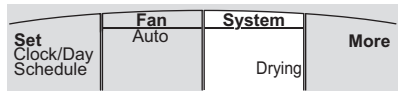
## Select the system setting



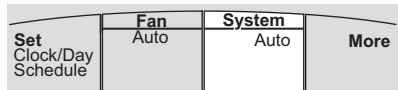
M32214



M32215



M32300



M32301

Press **SYSTEM** to select:

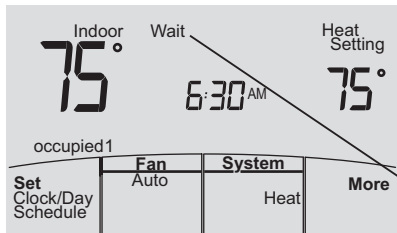
- **Cool:** Remote controller controls only in the cooling mode.
- **Heat:** Remote controller controls only in the heating mode.
- **Drying:** Remote controller directs indoor unit to remove moisture out of the air. May result in temperatures below your cool setting.
- **Auto:** Remote controller automatically selects heating or cooling depending on the indoor temperature.
- **Off:** Indoor unit is off.



**Note:** Options may vary depending on your equipment.

## Multi-zone configurations

---

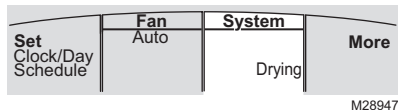


In multi-zone configurations, each zone is typically set to the same mode (Cool, Heat, or Drying).

If zones are set to different modes, the first indoor unit to call for heat or cool will take priority. Other zones go into standby, and “Wait” will be displayed on the screen.

## Drying mode (if configured)

---







Drying mode removes moisture from the air and works differently depending on the type of equipment installed. The temperature setting might or might not be displayed.

The indoor unit will determine the Drying mode temperature setting. The setting will be either:

- the cool temperature setting, or
- 3°F (2°C) below room temperature.

## Program default settings

This remote controller is pre-set to use energy saving program settings. We recommend these settings, since they can reduce your heating/cooling expenses. (See page 12 to adjust times and temperatures of each time period.)





|                                  |   | Heat (Mon-Fri) | Cool (Mon-Fri) | Heat (Sat-Sun) | Cool (Sat-Sun) |
|----------------------------------|---|----------------|----------------|----------------|----------------|
| <b>occupied1</b><br>(8:00 am)    |  | 70°            | 75°            | 70°            | 75°            |
| <b>unoccupied1</b><br>(10:00 pm) |  | 55°            | 85°            | 55°            | 85°            |
| <b>occupied 2</b>                |  | --             | --             | --             | --             |
| <b>unoccupied 2</b>              |  | --             | --             | --             | --             |



occupied 2 and unoccupied 2 periods may be programmed as needed, depending on installed configuration.

## Residential program default settings

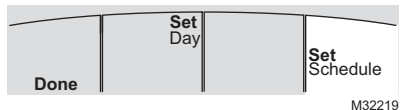
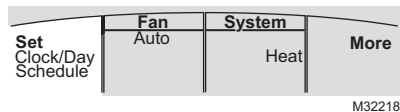
This remote controller is pre-programmed to use commercial energy saving program settings. For use in a home, change the program to match your schedule. (See page 12 to adjust times and temperatures of each time period.)

|                            |   | Heat (Mon-Fri) | Cool (Mon-Fri) | Heat (Sat-Sun)            | Cool (Sat-Sun)            |
|----------------------------|---|----------------|----------------|---------------------------|---------------------------|
| <b>Wake</b><br>(8:00 am)   |  | 70°            | 75°            | 70°                       | 75°                       |
| <b>Leave</b><br>(10:00 am) |  | 55°            | 85°            | 55°<br>(or cancel period) | 85°<br>(or cancel period) |
| <b>Return</b>              |  | --             | --             | --                        | --                        |
| <b>Sleep</b>               |  | --             | --             | --                        | --                        |



May cancel Leave, Return and Sleep periods.

## To adjust program schedules



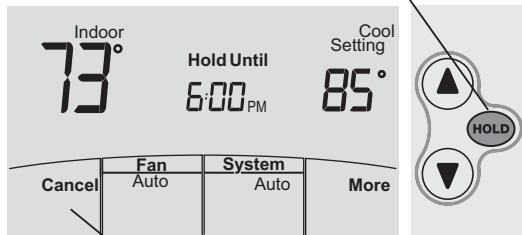
1. Press **SET CLOCK/DAY/SCHEDULE**, then **SET SCHEDULE**.
2. Press **▲** or **▼** to set your weekday occupied1/Wake time (Mon–Fri), then press **NEXT**.
3. Press **▲** or **▼** to set the heat temperature for this time period, then press **NEXT**.
4. Press **▲** or **▼** to set the cool temperature for this time period, then press **NEXT**.
5. Set time and temperature for the next time period (unoccupied1/Leave). Repeat steps 4 and 5 for each weekday time period.
6. Press **NEXT** to set weekend time periods (Sat–Sun), then press **DONE** to save & exit.



**Note:** You may cancel a period using the **CANCEL PERIOD** button. If configured, you may power the system completely off during the period by using the **POWER OFF PERIOD** button.

## Schedule override (commercial only)

Press to temporarily adjust temperature.



M32221

Press to resume  
program schedule

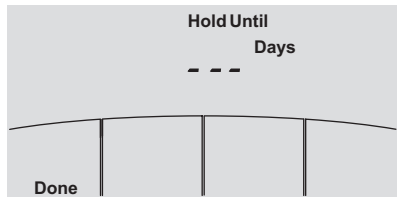
If a person is present during an unoccupied period, press **HOLD** to temporarily use occupied temperature. Each additional press of **HOLD** extends the **HOLD UNTIL** duration by 1 hour to a limit set by the installer.

The timer will expire automatically or schedule may be manually resumed by pressing **CANCEL**.

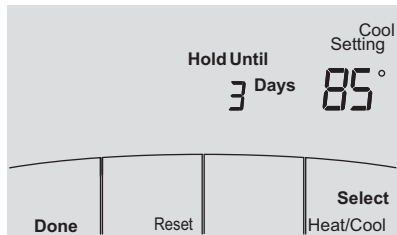


**Note:** Permanent hold not available on commercial configuration.

## Holiday override (commercial only)



M28948



M28950

If the building will be unoccupied for more than one day, you can use Holiday override to maintain an unoccupied temperature.

Press **MORE** until the Hold Until screen appears.

Press ▲ or ▼ to set the number of days, then press **NEXT**.

Press ▲ or ▼ to set the heat or cool temperature setting, then press **DONE**.

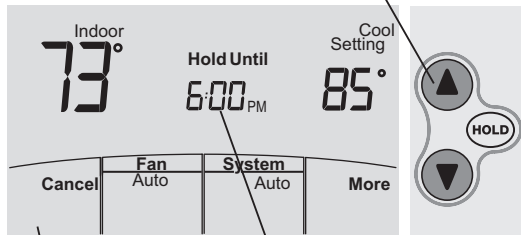
The cool temperature setting can only be set higher and the heat temperature setting can only be set lower than the unoccupied program schedule.

To clear the Holiday override from the home screen, press **CANCEL**.



## Temporary hold (residential only)

Press to temporarily adjust temperature.



M32221

Press to resume  
program schedule

Temperature will be  
maintained until the  
time shown

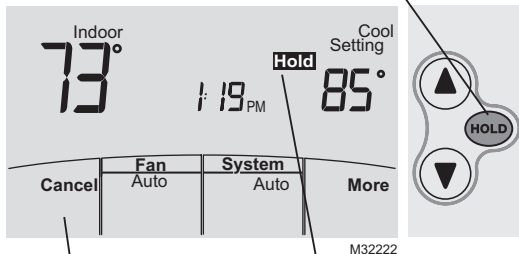
Press ▲ or ▼ to immediately adjust the temperature. This will temporarily override the temperature setting for the current time period.

The new temperature will be maintained only until the next programmed time period begins (see page 11).

To cancel the temporary setting at any time, press **CANCEL**.

## Permanent hold (residential only)

Press to permanently adjust temperature.



Press to resume  
program schedule

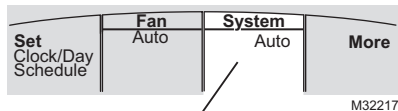
Temperature will  
be maintained until  
**CANCEL** button is  
pressed.

Press **HOLD** to permanently adjust the temperature. This will override the temperature settings for all time periods.

The **HOLD** feature turns off the program schedule and allows you to adjust the temperature manually, as needed.

The system will maintain the set temperature until you manually change it or you press **CANCEL** to resume the program schedule.

## System Changeover



Press until screen displays "Auto"

System Changeover is a feature used in climates where both air conditioning and heating are often used on the same day. When the system is set to "Auto," the remote controller automatically selects heating or cooling depending on the indoor temperature.

Heat and cool settings must be at least 2 degrees apart, depending how your remote controller was configured. The remote controller will automatically adjust settings to maintain this 2 (or more) degree separation.



**Note:** The "Auto" system setting may not appear, depending on how your remote controller was configured.

## Portable Central Controller (optional)

---



The optional Portable Central Controller can manage temperatures of multiple split-zoning systems from almost anywhere on the property.

The Portable Central Controller also works with other RedLINK™ devices used with other types of heating and cooling equipment.

One Portable Comfort Control can adjust up to 16 zones on a single property.



**Note:** The remote controller may take up to 15 seconds to respond to commands entered at the Portable Central Controller.

## Outdoor air sensor (optional)

---



The outdoor air sensor allows outdoor air temperature and humidity to be shown on your remote controller.

The outdoor air sensor also works with other RedLINK™ devices used with other types of heating and cooling equipment.

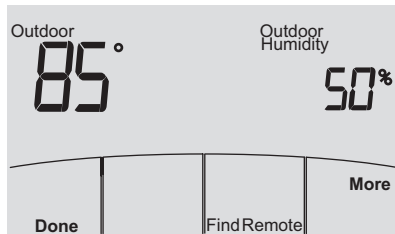
Only use AA **lithium** batteries for the outdoor air sensor.

## Remote Controller additional features

---

### To display outdoor temperature and humidity

If you have an outdoor air sensor, press **MORE** to display the current outdoor temperature and humidity. Press **DONE** to exit.



M32302

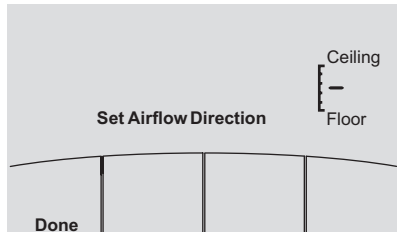
### To find a lost Portable Central Controller

If you misplace a Portable Central Controller, press **MORE**, then **FIND REMOTE**. The Portable Central Controller will beep for two minutes to help you locate it. Press anywhere on the display screen of the Portable Central Controller to stop the beeping.

## Remote Controller additional features (continued)

### To set up/down airflow direction (vane control)

If you would like to manually set the airflow direction, press **MORE**, then ▲ or ▼ to select the desired position, “Auto” or “Oscillate.”



M32305

**Note:** “Auto” position is determined by the system equipment to provide maximum efficiency and comfort. Top and bottom positions may change after 1 hour to prevent condensation.

**Note:** Airflow direction positions may vary depending on your equipment.

## Remote Controller additional features (continued)

### Set a timer to automatically power off the indoor unit (if configured)

Press **MORE** until “Power Off At” is displayed. Press ▲ or ▼ to set the time at which you would like the unit to turn off. Press **DONE** to exit. Note: This is not a recurring timer.

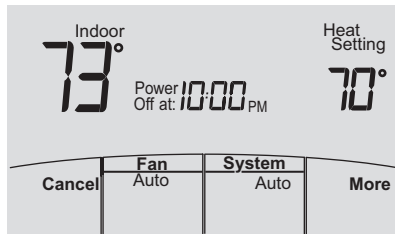
This timer can be set up to 24 hours in advance. Depending on how this feature was installed, the indoor unit will either:

- A) Stay turned Off indefinitely until the user changes the system mode.
- B) Stay turned Off until the next scheduled period

#### Example:

*If a room will be unoccupied at 10:00 PM, press **MORE** until “Power Off At” appears. Press ▲ until 10:00 PM. Press **DONE** to exit.*

To clear the “Power Off At” timer from the home screen, press **CANCEL**.



M32304



## **Remote Controller additional features (continued)**

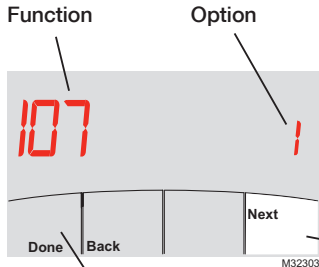
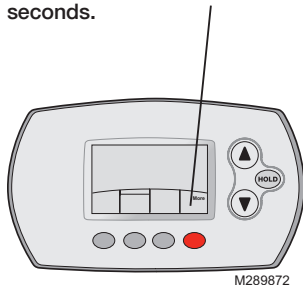
---

**Optimal Start:** This feature eliminates the guesswork when setting your schedule. It allows the remote controller to “learn” how long your Split-Zoning System takes to reach programmed temperature settings, so the temperature is reached at the time you set.

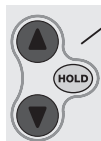
**Locked:** To prevent tampering, features can be fully or partially locked. When a selected feature is locked, the word “Locked” is displayed on the screen for approximately 5 seconds.

## Advanced functions

Press and hold the **MORE** button until the display changes. "WAIT" will be displayed for up to 17 seconds.



Press **DONE** to save & exit.



Press ▲ or ▼ to change option (see pages 25-27).

Press **NEXT** to display next function screen (see pages 25-27).

## Advanced functions

---

Press **▲/▼** to change option, then press **NEXT**.

### Filter Change Reminder

Function **107** This feature displays an alert to remind you to change the filter in the indoor unit.

- Options:
- 1** = 100 Hours
  - 2** = 2500 Hours
  - 3** = OFF (no reminder to change filter)

### Schedule Format

Function **148** Press **▲/▼** to change the schedule format.

- Options:
- 0** = 5-2 (Monday – Friday) (Sat-Sun)
  - 1** = 5-1-1 (Monday – Friday) (Sat) (Sun)

### Optimal Start

Function **150** See page 23 for description of feature.

- Options:
- 1** = ON
  - 0** = OFF

### Fahrenheit or Celsius Display

Function **156** Press **▲/▼** to change the display.

- Options:
- 0** = Fahrenheit
  - 1** = Celsius

## Advanced functions

---

### Full Lockout

Function **160** This feature prevents users from changing all settings.

Options: **0** = OFF  
**1** = ON

### Lockout OFF Mode

Function **162** This feature prevents users from changing the system mode to OFF.

Options: **0** = OFF  
**1** = ON

### Lockout System Mode

Function **164** This feature prevents users from changing the system setting (Heat, Cool, Off, Auto etc.).

Options: **0** = OFF  
**1** = ON

### Lockout Fan Mode

Function **165** This feature prevents users from changing the fan setting.

Options: **0** = OFF  
**1** = ON

## Advanced functions

---

### Lockout Temperature Setting

Function **166** This feature prevents users from changing the temperature setting.

Options: **0** = OFF  
**1** = ON

### Lockout Set Clock/Day/Schedule

Function **168** This feature prevents users from changing the clock, current day and the schedule.

Options: **0** = OFF  
**1** = ON

### Maximum Heat Temperature Setting Allowed

Function **170** This feature prevents users from changing the Heat temperature setting above the selected temperature limit.

Options: **90** = 90°F (32°C) Temperature Limit  
**40-89** = 40 to 89°F (4 to 32°C)

### Minimum Cool Temperature Setting Allowed

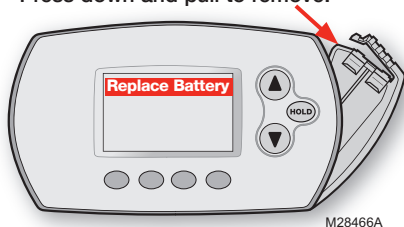
Function **172** This feature prevents users from changing the Cool temperature setting below the selected temperature limit.

Options: **50** = 50°F (10°C) Temperature Limit  
**51-99** = 51 to 99°F (11 to 37°C)

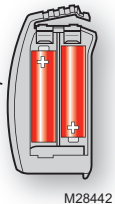
## Battery replacement (remote controller)

---

Press down and pull to remove.



Insert fresh AA alkaline batteries, then reinstall battery holder.



Install fresh batteries when the “REPLACE BATTERY” warning begins flashing. The warning flashes about two months before the batteries are depleted.

Remove the battery holder and install 2 fresh AA alkaline batteries.

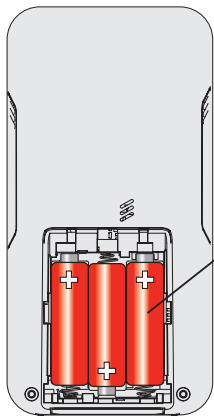
After batteries are installed, the remote controller will automatically restore communication with the wireless network within a few minutes.



**Note:** If batteries are inserted within 2 minutes, the time and day will not have to be reset. All other settings are retained in memory.

## Battery replacement (Portable Central Controller)

---



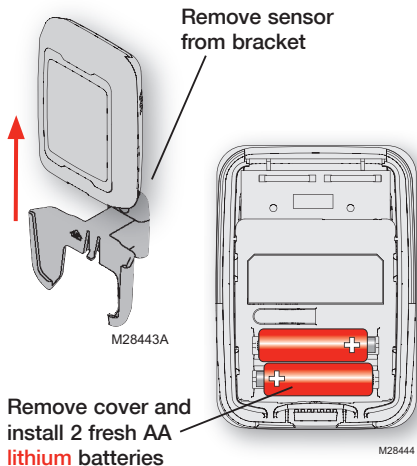
M28475

Install fresh batteries when the “REPLACE BATTERY” warning begins flashing. The warning flashes about two months before the batteries are depleted.

Remove the battery cover and install 3 fresh AA alkaline batteries.

After batteries are installed, the Portable Central Controller will automatically restore communication with the wireless network within a few minutes.

## Battery replacement (outdoor air sensor)



Replace outdoor sensor batteries when the “Replace Battery Outdoor” warning begins flashing on the remote controller. The warning flashes about two months before the batteries are depleted.

Remove the sensor from the bracket, remove the cover and install 2 fresh AA **lithium** batteries.

After batteries are installed, the sensor will automatically restore communication with the wireless network within a few minutes.



## **In case of difficulty**

---

### **Indoor unit does not respond**

- Check circuit breaker and reset if necessary.
- Make sure power switch at equipment is on.
- Wait 5 minutes for the system to respond.

### **Screen displays “No Signal”**

Remote controller has lost radio contact with the wireless network (usually because of a power outage). To restore power:

- Check circuit breaker and reset if necessary.
- Make sure power switch at indoor unit is on.

After power is restored, the remote controller will automatically restore wireless communication within a few minutes.

# Regulatory information

---

### **FCC Compliance Statement (Part 15.19) (USA only)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

### **FCC Warning (Part 15.21) (USA only)**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **FCC Interference Statement (Part 15.105 (b)) (USA only)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Wireless receiver, remote controller and outdoor sensor**

To comply with FCC and Industry Canada RF exposure limits for general population/ uncontrolled exposure, the antenna(s) used for these transmitters must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

### **Portable Central Controller**

This portable transmitter with its antenna complies with FCC and Industry Canada RF exposure limits for general population/ uncontrolled exposure.

### **Section 7.1.5 of RSS-GEN**

Operation is subject to the following two conditions:

- 1 this device may not cause interference, and
- 2 this device must accept any interference, including interference that may cause undesired operation of the device.

## Limited warranty

---

Refer to warranty statement in equipment documentation.



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