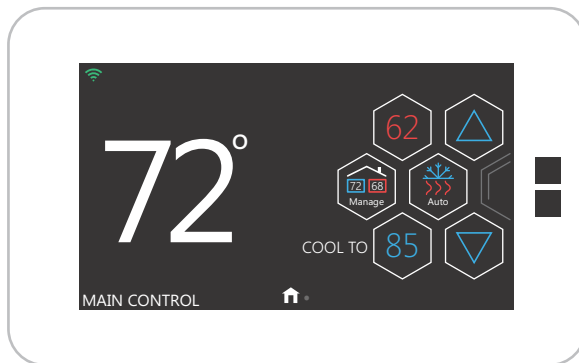


# USER'S INFORMATION MANUAL

## Hx 3 ZONING SYSTEM



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Read all sections of this manual and keep the manual for future reference.

## WARNING

Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Safety considerations



This is a safety alert symbol. When you see this symbol on labels or in manuals, be alert to the potential for personal injury and equipment damage.

Understand and pay particular attention to the signal words **DANGER**, **WARNING**, and **CAUTION**.

**DANGER** indicates an **imminently** hazardous situation, which, if not avoided, **will result in death or serious injury**.

**WARNING** indicates a **potentially** hazardous situation, which, if not avoided, **could result in death or serious injury**.

**CAUTION** indicates a potentially hazardous situation, which, if not avoided **may result in minor or moderate injury**. It is also used to alert against unsafe practices and hazards involving only property damage.

## About the Hx 3 Zoning System

The Hx™3 Zoning System includes different zoning components that are used to control the system, measure zone temperature and humidity, and communicate information within the system. The following table provides an overview.

**Table 1:** Zoning system components

Component	Model number	Description
Hx™3 Touch Screen Thermostat	S1-THXU430W	Required to act as the Main Control in the zoning system. The Main Control is located in zone 1. Additional Hx 3 Touch Screen Thermostats can be used as zone thermostats in the other zones in the zoning system. Zone thermostats act as zone sensors in the zoning system, but have additional functionality.
Hx™3 Zone Thermostat	S1-ZCC01A	Can be used as a zone thermostat in any zone except zone 1. Zone thermostats act as zone sensors in the zoning system, but have additional functionality. Hx 3 Touch Screen Thermostats acting as zone thermostats have more functionality than Hx 3 Zone Thermostats.
Hx™3 Zone Sensor	S1-TCZSN02	Can be used as a zone sensor in any zone except zone 1.
Hx™3 Zone Control Module	S1-ZMC401A	Required to communicate with the Main Control and provide 24 VAC outputs to the zone dampers. In zoning systems with more than four zones, a second Hx 3 Zone Control Module is required.

The zoning system in your home includes some or all of these components, depending on the requirements of the home and the zoning system setup. A Main Control and a Hx 3 Zone Control Module are required to support zoning operation. The Main Control is located in zone 1. The zoning system also includes zone sensors located in other zones, which can be zone thermostats and/or Hx 3 Zone Sensors. Hx 3 Touch Screen Thermostats and Hx 3 Zone Thermostats can act as zone thermostats.

**IMPORTANT:** To operate the zoning system, interact with the Main Control and zone thermostats (if applicable). The Hx 3 Zone Control Module is for use by installers or service technicians only.

## System configuration and operation

It is important to understand how the zoning system operates and how it meets the needs of your home.

To operate the zoning system and adjust temperature and other settings as needed, use the Main Control and zone thermostats (if applicable). The Hx 3 Touch Screen Thermostat acting as the Main Control is located in zone 1. The Main Control has more functionality than the zone thermostats used in other zones. Consider this fact when selecting the zone to be designated as zone 1. You can use the Main Control to adjust temperature and other settings for zone 1, as well as all the other zones in the zoning system. There are certain zoning system settings that apply to all zone thermostats that you can only select and adjust using the Main Control. These include the following:

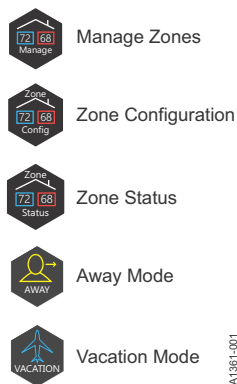
- Use of non-programmable or programmable mode
- Unit of temperature displayed (Fahrenheit or Celsius)
- Time format
- Continuous fan percentage (indoor fan speed)  
If a zone thermostat is used for a zone, you must select the fan mode and interval time for the zone at the zone thermostat. If a Hx 3 Zone Sensor is used for a zone, use the Main Control to adjust the fan mode and interval time for the zone.
- Schedule management for all zones (editing zone schedules, copying zone schedules, applying the default system schedule to zones)  
You can use zone thermostats to view their individual schedule. You also have the option to edit the schedule if the zone thermostat is a Hx 3 Touch Screen Thermostat.
- Use of Vacation mode

Zone thermostats are located in zones other than zone 1, that is zones 2–8. There is a zone thermostat or a Hx 3 Zone Sensor in each of these zones. You can use a zone thermostat to adjust temperature and certain settings for the zone in which it is located. Hx 3 Touch Screen Thermostats acting as zone thermostats have more functionality than Hx 3 Zone Thermostats. For example, on a Hx 3 Touch Screen Thermostat acting as a zone thermostat, you can view and adjust the temperature setpoints and mode of operation for every zone in the system. You can only use a Hx 3 Zone Thermostat to do this for the zone in which it is located. If a Hx 3 Zone Sensor is used for a zone, use the Main Control to adjust the settings for the zone.

**Note:** Refer to the User's Information Manual for the Hx 3 Touch Screen Thermostat for additional information about specific settings and functionality detailed in this manual.

## Hx 3 Touch Screen Thermostat: zoning functionality

When used in a zoning application, Hx 3 Touch Screen Thermostats acting as the Main Control or zone thermostats have more features and icons than when they are used in a non-zoning application. Figure 1 shows the zoning icons.



**Figure 1:** Zoning icons

**Note:** The Hx 3 Zone Thermostat is used for zoning applications only.

## Security

It is important to be aware that security settings enabled on the Main Control apply to all zones. When you enable security settings on the Main Control, zone thermostats located in individual zones display their **Lock** screen if anyone attempts to interact with them.

### NOTICE

*Security settings enabled on the Main Control apply to all thermostats on the zoning system. To prevent the adjustment of temperature set-points in a particular zone, install a zone thermostat and enable security settings from the Main Control.*

## System time and date

The Main Control communicates the system time and date to the other zoning system components. Note the following:

- If the Main Control is connected to a Wi-Fi network, the time and date is synced with the geographical location of the Internet Service Provider.
- If the Main Control is not connected to a Wi-Fi network, set the time and date on the Main Control manually. Refer to the User's Information Manual for the Hx 3 Touch Screen Thermostat for information about adjusting the time and date manually.

### NOTICE

*You do not have to set the time and date on zone thermostats because the Main Control communicates the system time and date to zoning system components.*

## Fan operation

You can select the fan mode and interval time for each zone in the zoning system. For example, you can opt to run the fan continuously or for 15 min each hour.

Use the Main Control to adjust the fan percentage setting, which is applied to all zones. The actual airflow delivered to each zone during fan operation depends on the following:

- The airflow settings selected for each zone during installation
- The number of zones calling for fan operation at any given time

Because you can set the fan interval time for each zone, you may notice that the fan is cycling more often than expected. The fan speed also varies in accordance with the number of zones calling for fan operation. This is because the speed at which the fan operates is the specified percentage of the zones calling for fan operation.

## Humidity control

You can select humidity levels for individual zones if zone thermostats (that is, Hx 3 Touch Screen Thermostats and/or Hx 3 Zone Thermostats) are installed in each zone. The Hx 3 Zone Sensor senses zone temperature but does not sense humidity levels.

You can adjust the humidity setpoints when using the Manual mode in the humidity settings. However, it is more advisable to use the Automatic mode, in which case, the humidity setpoint is set automatically based on indoor and outdoor temperatures.

**Note:** If improper humidity settings are selected, property damage may result from extreme humidity levels.

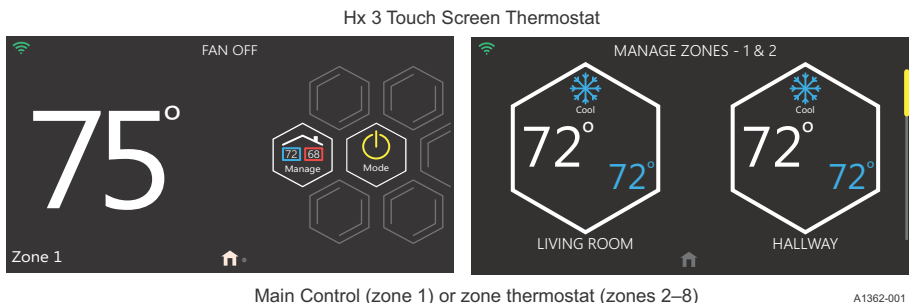
## Managing zones

Tap the **Manage** icon to view and adjust the temperature setpoints and modes of operation (for example, Off, Heat, Cool, and Auto modes) of different zones in the zoning system. This option is only available on Hx 3 Touch Screen Thermostats. Be aware that the Hx 3 Touch Screen Thermostat acting as the Main Control has more functionality than a Hx 3 Touch Screen Thermostat acting as a zone thermostat.

To manage zones:

1. On the **Zone** screen, note the zone name shown in the bottom left corner, for example, **Zone 1**.  
This is the zone in which the Main Control or zone thermostat you are using is located.
2. Tap the **Manage** icon.
3. On the **Manage Zones** screen, select the required zone.
4. Adjust the settings for the zone as required.
5. Repeat steps 3 and 4 to view and adjust the settings for other zones as required.
6. When finished viewing and adjusting zone settings, return to the **Zone** screen of the zone in which the thermostat is located.

**Note:** When finished managing other zones, it is advisable to return to the **Zone** screen of the zone in which the Main Control or zone thermostat you are using is located to avoid potential confusion. The Main Control and zone thermostats return to the **Zone** screen of their designated zone when their display enters sleep mode.



**Figure 2:** Managing zones

## Temperature control

Temperature control settings are accessible on the Main Control. These settings are for use by installers. The temperature control settings may need to be adjusted depending on the following:

- The type of equipment installed
- The number and size of zones
- Other specific requirements of your home

Typical settings for a system that does not support zoning may not be ideal for a zoning system. Discuss the settings required for your home with the installing contractor before installation of the zoning system is complete.

## Non-Zoning mode

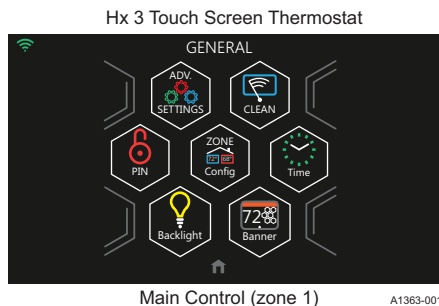
In Non-Zoning mode, the system operates as a single-zone system. The dampers for all zones are opened, and the system operates according to the temperature and setpoint of the Main Control.

The system enters Non-Zoning mode during zone-related fault conditions or if you select Non-Zoning mode. To do so:

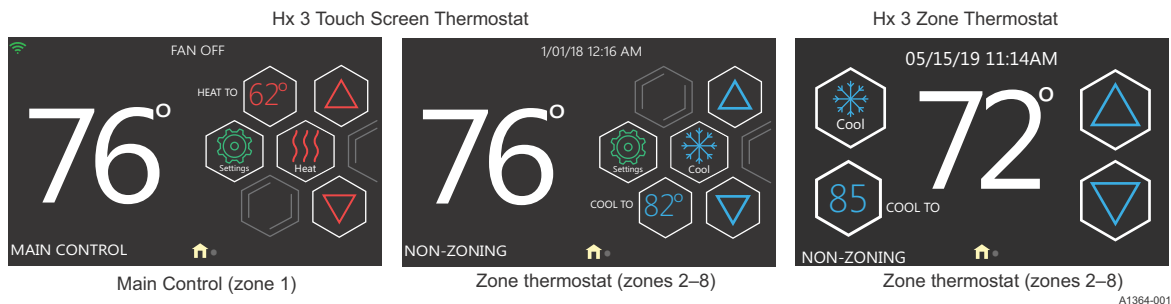
1. On the Main Control, go to **Settings > General > Zone Configurations**. See Figure 3.
2. On the **Zone Configurations** screen, select the **Non-Zoning** option.

When the system is in non-zoning mode, the following occurs:

- **Non-Zoning** appears in the bottom left corner of zone thermostat screens to indicate the system is in non-zoning mode. See Figure 4.
- Interaction with zone thermostat screens or zone controls has no effect on the operation of the system.



**Figure 3:** Zone Configurations icon



**Figure 4:** Operating in non-zoning mode

## Schedule management

It is important to be aware of the following about editing the zoning system schedule:

- You can use the Main Control to edit the schedule for all zones. See Figure 5.
- If a Hx 3 Touch Screen Thermostat is used as a zone thermostat, you can use the zone thermostat to edit the schedule for the zone in which it is located. See Figure 6.
- If a Hx 3 Zone Thermostat is used as a zone thermostat, you can use the zone thermostat to view the schedule for the zone in which it is located. See Figure 6. To make changes to the zone schedule, use the Main Control.

## Hx 3 Touch Screen Thermostat

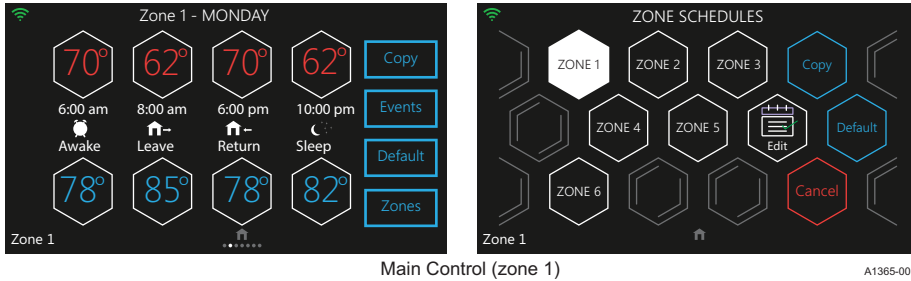


Figure 5: Zone schedule - Main Control

Main Control (zone 1)

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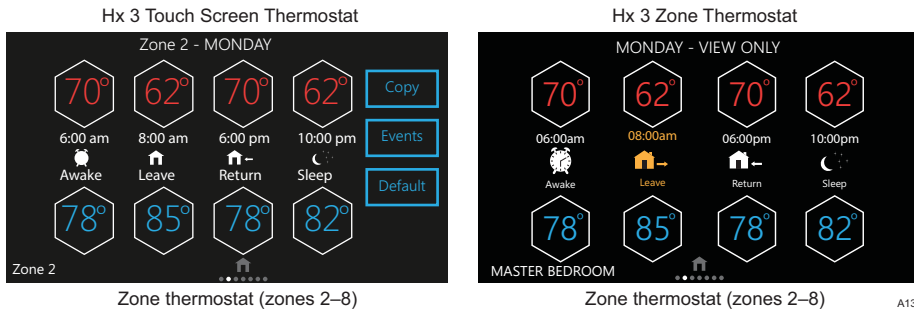


Figure 6: Zone schedule - zone thermostat

Zone thermostat (zones 2–8)

Zone thermostat (zones 2–8)

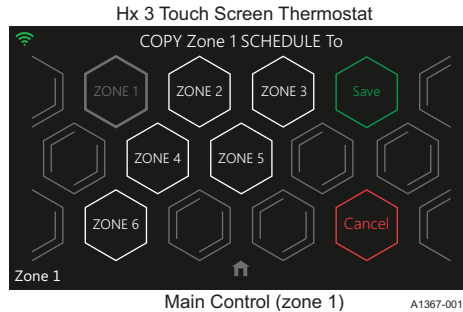
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To edit the schedule for a zone using the Main Control:

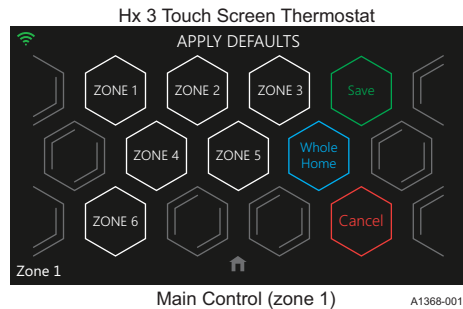
1. On the Main Control, go to **Settings > Schedule**.
2. On the **Schedule** screen, to edit the schedule for zone 1, select options as required to edit the schedule.

**Or**

3. On the **Schedule** screen, to edit the schedule for a zone other than zone 1, tap **Zones** to display all the zones on the system.
3. On the **Zone Schedules** screen, tap the required zone, for example, **Zone 2**, and tap the **Edit** icon.
- On the **Zone Schedules** screen, you can also use the **Copy** and **Default** options. Use the **Copy** option to copy the schedule of one zone to another zone. See Figure 7. Use the **Default** option to apply the default system schedule to individual zones as required. See Figure 8.
4. Edit the schedule for the zone as required and save the changes.



**Figure 7:** Coping a zone schedule to another zone



**Figure 8:** Applying the default system schedule to zones

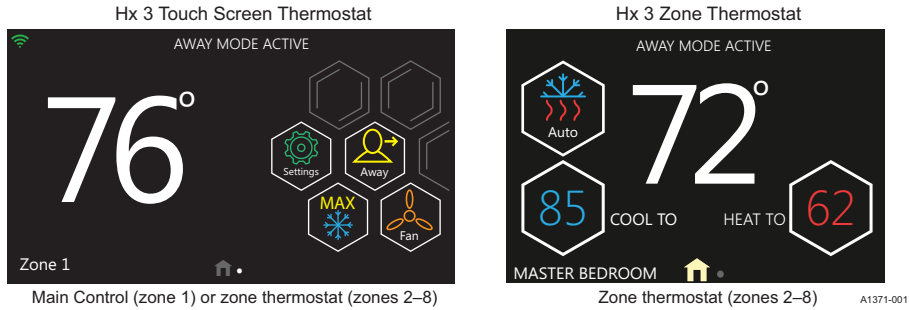
### Away mode

Away mode is useful if you want to adjust heating and cooling for periods when no one is home or in a specific zone, for example. On the Main Control and Hx 3 Touch Screen Thermostats acting as zone thermostats, you can do the following:

- Select the temperature setpoints to be used for each zone when the system is operating in Away mode.
- Enable Away mode for individual zones using the **Secondary Home** screen.
- Enable Away mode for the entire home using the **Secondary Home** screen.

**Note:** If a Hx 3 Zone Thermostat or Hx 3 Zone Sensor is used in a specific zone, you must adjust the Away mode temperature setpoints and enable Away mode for the zone on the Main Control.

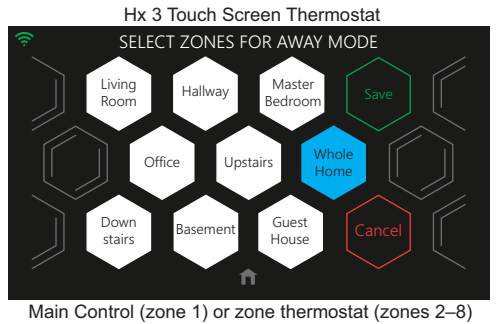
When you enable Away mode, the temperature setpoints for this mode are used instead of the current system setpoints. The system operates in Away mode until you disable Away mode. When Away mode is enabled for a zone, **Away Mode Active** appears in the banner of the thermostat located in the zone. This can be the Main Control (zone 1) or a zone thermostat (zones 2–8). See Figure 9.



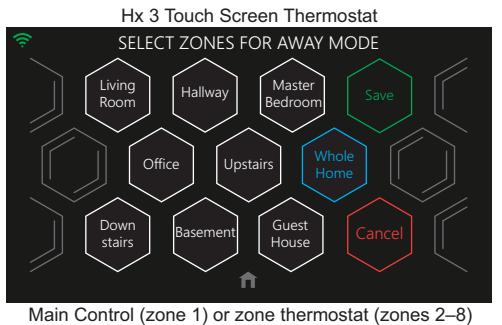
**Figure 9:** Away mode active - banner indicator

To enable Away mode:

1. On the **Secondary Home** screen, tap the **Away** icon.
2. On the **Select Zones for Away Mode** screen, to enable Away mode for all zones, tap **Whole Home**, then tap **Save**. See Figure 10.  
**Or**  
 On the **Select Zones for Away Mode** screen, to enable Away mode for specific zones, tap the required zones, then tap **Save**. See Figure 11.



**Figure 10:** Enable Away mode for all zones



**Figure 11:** Enable Away mode for individual zones



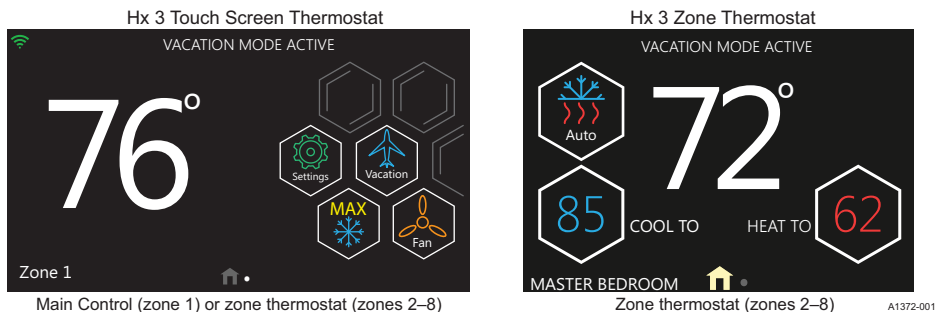
## Vacation mode

Vacation mode is useful if you want to adjust heating and cooling while on vacation. Use the Main Control to select temperature setpoints for Vacation mode and enable Vacation mode. The temperature setpoints for Vacation mode apply to all zones. You cannot specify different Vacation mode temperature setpoints for different zones.

To enable Vacation mode, on the Main Control, on the **Secondary Home** screen, tap the **Settings** icon, then tap the **Vacation** icon. The system operates in Vacation mode until you disable Vacation mode.

When you enable Vacation mode, the following occur:

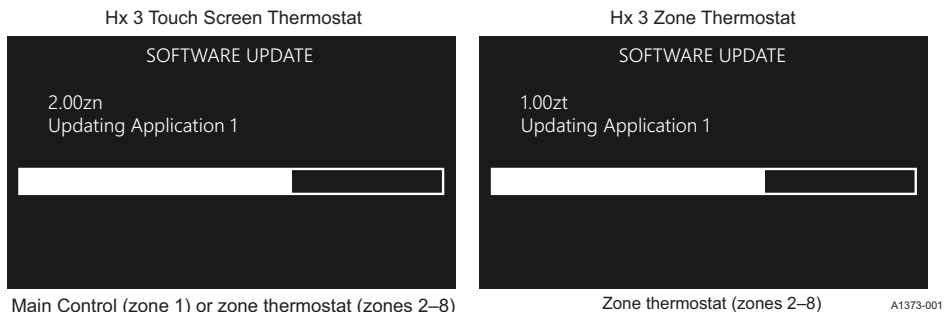
- Each zone is controlled individually to meet the required setpoints.
- **Vacation Mode Active** appears in the banner of the Main Control and each zone thermostat on the zoning system. See Figure 12.



**Figure 12:** Vacation mode active

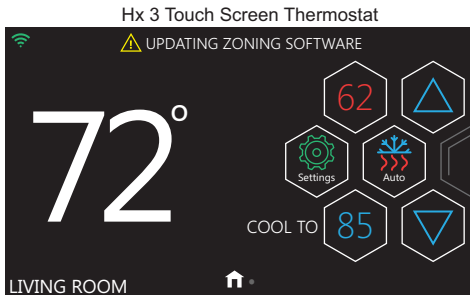
## Software updates

When receiving software updates, the Main Control and zone thermostats display a black background with a white progress bar in the middle of the screen, as shown in the following figure:

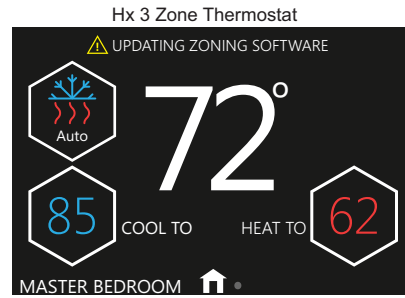


**Figure 13:** Main Control and zone thermostat - receiving a software update

When the Main Control and zone thermostats are not receiving a software update, but an update to a zoning component is in progress, a yellow triangle and text appear in their banner area. See Figure 14.



Main Control (zone 1) or zone thermostat (zones 2–8)



Zone thermostat (zones 2–8)

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**Figure 14:** Main Control and zone thermostat - software update banner indicator