



# MODEL HA23

For Indoor Use

## HOMESSETTINGS THINKESSENTIALS USER'S MANUAL

Thank you for purchasing HomeSettings software. With HomeSettings products, you can reliably and remotely control lighting, appliances, and more. The outstanding features of the HomeSettings program include:

- Feedback that allows you to see whether your device has turned on/off or dimmed.
- Ease of installation and ease of use
- Manual override
- RF signal reliability – each HomeSettings product has a special repeater feature that virtually guarantees that RF signals are received.

HomeSettings ThinkEssentials® software includes the following features:

- Control up to 230 devices
- Draw a basic floor plan of your home with ease and see the state of all your devices
- Activate scenes in your home or turn on/off groups of devices
- Schedules – activate scenes or turn on/off groups of lights at specific times of day, including sunrise/sunset
- Schedules can be set for every day, individual days of the week, or multiple days of the week
- Astronomic feature keeps track of sunrise/sunset time based on your location
- Turn all devices on or off with the push of one button
- If desired, additional handheld controllers can be added to the same system

### Z-WAVE® INTRODUCTION

HomeSettings ThinkEssentials is Z-Wave® Certified software and is fully compatible with all HomeSettings modules and all Z-Wave enabled networks. Z-Wave enabled devices displaying the Z-Wave logo can be used with HomeSettings modules, controllers, and software regardless of the manufacturer.



This product is compatible with other Z-Wave™ enabled products

Each module in a HomeSettings network is designed to act as a repeater, re-transmitting the RF signal around obstacles and radio dead spots when possible to ensure that messages are received by the intended destination.

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# HomeSettings ThinkEssentials

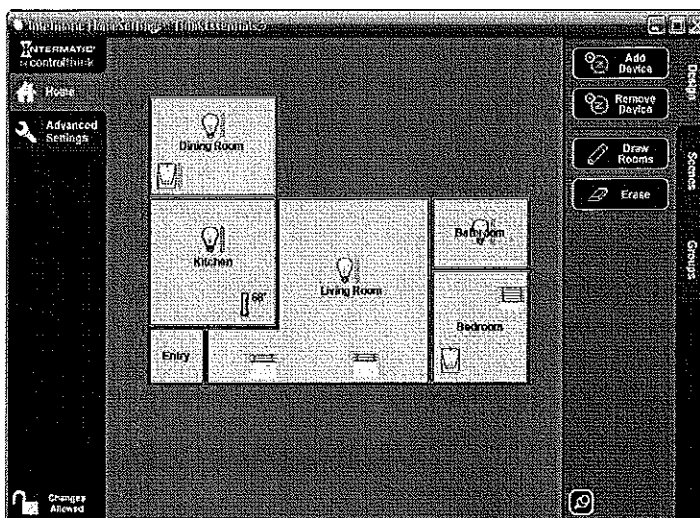


Figure 1: Sample room and layout with ten devices

## Glossary of Terms

**Astronomic Function** – Allows the software to follow sunrise or sunset times. ThinkEssentials will automatically adjust schedules as daylight length increases or decreases without the need to be reprogrammed.

**Device** – Any HomeSettings or Z-Wave module, controller, or software, or an item connected to any module (for example, a lamp)

**Group** – Groups can include one or more modules in your network, allowing them to be simultaneously turned on or with the press of a button or based on a schedule.

**Network** – All Intermatic HomeSettings devices controlled by the software or by remote controllers operating in the same system. Each network has its own unique identification code to ensure that no one else can accidentally control your system.

**Scene** - Scenes can include one or more modules in your network, allowing each module to be simultaneously turned on or off or set to a different level with the press of a button, or based on a schedule.

**Schedule** – A timer-based event in the software that will activate a scene or turn on/off a group at a specified time of day, or at sunrise or sunset.

**Primary Controller** – The controller used to set up your devices or network. This can be a tabletop or handheld remote controller or it can be software.

**NOTE:** Only the Primary Controller can be used to add or remove devices from a network.

**Secondary Controller** – A controller containing network information about other devices within the network, included into the network by the Primary Controller. Secondary controllers cannot add or remove devices from the network.

## **SAFETY PRECAUTIONS**

The following safety precautions are designed for your safety and comfort. You should follow all precautions and instructions.

The software is intended to be used in normal household circumstances and is expressly not intended for use, has not been tested for use, and should not be used in applications where health or safety are dependent on the accurate and timely functioning of the software, or in circumstances where a malfunction or error could result in the loss of valuable property.

You should not use this software in conjunction with items or devices that are not designed for unattended operation.

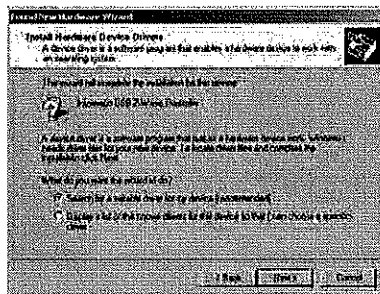
## PLUGGING IN THE USB STICK AND INSTALLING DRIVERS

To install the USB stick:

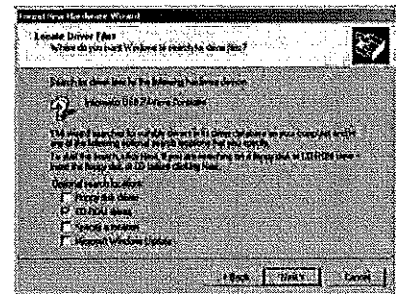
1. Insert the HomeSettings ThinkEssentials CD into your Windows 2000, XP, or newer computer.
2. Plug the USB stick into the supplied USB extension cable, and then plug the USB extension cable into an open USB port on your computer. Optionally, you may plug the USB stick directly into your computer, although this may reduce RF range.
3. Once you plug the USB stick into your computer, the Found New Hardware Wizard (or equivalent) will appear on your screen.  
In Windows XP choose the "Install the software automatically (Recommended)" option and press Next.  
In Windows 2000 choose the "Search for a suitable driver for my device (recommended)" option and press Next. You may be asked to choose an optional search location. Check the box next to the option "CD-ROM drives" and press Next.



Windows XP

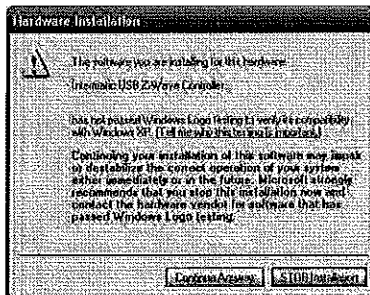


Windows 2000



Windows 2000

4. A message may appear indicating that the drivers for the Intermatic USB Z-Wave Controller have not been signed. This is not a requirement for the USB stick. Press "Continue Anyway".



5. Once your USB stick and drivers have been installed, press Finish.
6. For best performance, leaving the USB extension cable plugged in, place the USB stick in an open area away from walls or metallic objects.

## INSTALLING SOFTWARE

**NOTE:** Install the drivers for the USB stick before running the software. The software requires the USB stick to communicate with a Z-Wave network.

To install the software:

1. Insert the HomeSettings ThinkEssentials CD into your Windows 2000, XP, or newer computer.
2. The installer program should run automatically. If the SOFTWARE does not automatically install, the Windows Auto Run feature may have been disabled. In this case, choose "START" in the Windows Taskbar and then choose the "RUN" option. Type the following: `<CD-rom drive letter>:\setup.exe` then click "OK".
3. Follow the instructions provided by the installer program. Once complete, a shortcut to the HomeSettings ThinkEssentials program will be placed in your Start menu.

## STARTING THE SOFTWARE FOR THE FIRST TIME

Once the software and USB stick have been installed, you can run HomeSettings ThinkEssentials on your computer. You can find a link to run the software entitled "HomeSettings ThinkEssentials" in your Windows Start Menu Programs.

When you run the software for the first time, you will be asked to enter your license key and to select the location nearest you.

### Entering your license key

The license key for your software is printed on a sticker on the back of the CD. When prompted for the license key, simply enter this number or code and then press the "Activate" button.

### Selecting the location nearest you

This copy of ThinkEssentials comes with a feature that enables you to activate scenes or turn on or off groups at sunrise and/or sunset. This is called the astronomic function.

To enable ThinkEssentials to automatically adjust the sunrise and sunset time for your location, simply select your location during this step. Select your country first, then your state/province, and then your city. If your city does not appear in this list, select the city nearest you instead.

To change your location at any time, switch to the Advanced Settings tab on the screen and follow the same step as described above.

**NOTE:** Sunrise and sunset times are based on your location as well as your time zone and the current date and time. Please ensure that the correct date, time, and time zone are selected in the Windows® "Date and Time Properties" (accessible via the Windows Control Panel. Choose "START" in the Windows taskbar, then choose "SETTINGS", and "CONTROL PANEL".)

## SETTING UP YOUR NETWORK OF DEVICES

**NOTE:** Setting up your network refers to assigning devices to the USB stick's network. All devices should be assigned to the USB stick's network before any programming or remote control functions can be accomplished.

**NOTE:** Items (such as lamps) should be plugged into HomeSettings devices before adding devices to the network. These items should be turned to the ON position.

### Adding devices to the network

1. From the **DESIGN** pane, press the ADD DEVICE button. The software will ask you to press the button on the device to add.
2. Press and release the PROGRAM button on the device. If successful, the software will indicate that the device has been successfully added. If a failure is indicated, it will be necessary to repeat steps 1 and 2 until the device is successfully added.
3. Most devices will appear as icons in the ThinkEssentials software, typically near the lower-right corner. You may move these icons around by left clicking and dragging them into open spaces or into rooms (see Drawing a basic floor plan, page 6).

Repeat steps 1 through 3 for each device you wish to add to the network.

**NOTE:** For your security, the USB stick must be within a few feet of the device to be able to add it to your network. If this is not possible, please set up your network with a portable remote controller and then copy this information to the USB stick (see Joining an existing network, page 11).

**NOTE:** To add a remote controller to the network, or to add any other device that does not have a PROGRAM button, from the **DESIGN** pane in HomeSettings ThinkEssentials, press the ADD DEVICE button and then put the device into RECEIVE CONFIGURATION or REPLICATION RECEIVE mode. For more details, please refer to the instruction sheets that came with the device.

**NOTE:** The process of adding a device to a Z-Wave network is often referred to as INCLUSION.

### Removing devices from the network

To remove a device from your network, follow the same procedure as Adding devices to the network (see above), but press the REMOVE DEVICE button instead of the ADD DEVICE button.

**NOTE:** You can reset devices from *other* networks using the REMOVE DEVICE button. Resetting a device will restore its factory default settings.

**NOTE:** Some devices might not support being reset using the REMOVE DEVICE button. In such cases, please refer the device's documentation for manual reset instructions.

**NOTE:** The process of removing a device from a Z-Wave network is often referred to as EXCLUSION.

### **Removing or replacing broken devices**

If a device is broken or has been removed from your system:

1. Press-and-hold the left mouse button or right-click on the broken or missing device's icon.
2. To remove the device from the network, select the REMOVE BROKEN DEVICE option.
3. To replace the device with another device, select the REPLACE BROKEN DEVICE option. Then, follow steps 2 and 3 in the **Adding devices to the network** procedure (see page 5).

**NOTE:** You should remove devices from the network, such as Christmas light plug-in modules, before unplugging them for a period of time. For best results, the REMOVE BROKEN DEVICE option should only be used in case of actual device failure.

### **Controlling devices**

To turn devices on or off, simply left click on the icon of a device. Clicking repeatedly will typically toggle the device on and off.

In the case of window shades, clicking on the device's icon will typically open or close the shade.

Advanced functionality for a device can be accessed by pressing-and-holding the left mouse button while hovering over an icon or by right-clicking the icon. For example, lamp modules and dimmable light switches pop-up a dimmer bar. Click anywhere outside of the pop-up to close it.

**NOTE:** Many types of devices have not been invented yet or are not known to the software, and may appear as question marks in the software interface. Additionally, some devices will not react when their icons are clicked on. There may be a free upgrade available online at <http://www.controlthink.com> which enables functionality for more types of devices.

## **DRAWING A BASIC FLOOR PLAN**

You may optionally draw a basic floor plan (room layout) in the software. This will allow you to organize your devices by room or floor, position in the room, etc.

### **Drawing rooms**

To draw a room, click the DRAW ROOMS button in the DESIGN pane. This will enable DRAW ROOMS mode. To exit this mode, click the button again.

Once in this mode, you may draw one or more rooms.

To draw a room:

- Move your mouse pointer to the location in the open center area of the screen where you would like to draw your room. This will be one corner of the room.
- Press the left button on your mouse and then move your mouse diagonally to where the opposite corner of the room should be.
- To complete the room, release the left mouse button.
- When prompted, type a name for the room.

To draw a non-rectangular room:

- Draw the largest rectangular section of the room per the above instructions.
- To draw an additional segment of the room, press the left mouse button inside the room and then move your mouse diagonally to an empty area outside of the room.
- To complete the extension to the room, release the left mouse button.
- To erase unwanted sections of the room, use the ERASE mode (see page 7).

### **Erasing rooms**

To erase a room or rooms, or parts of a room or rooms, click the ERASE button in the DESIGN pane. This will enable ERASE mode. To exit this mode, click the button again.

Once in this mode, you may erase part or all of one or more rooms. To erase:

- Move your mouse pointer to a location outside of the room, closest to the area where you would like to begin erasing. This will be one corner of your erasing block.
- Press the left button on your mouse and then move your mouse over the area you would like to erase.
- When you have finished selecting the area you would like to erase, release the left mouse button.

To erase an entire room, you may also press-and-hold the left mouse button over that room or right-click the room and then select REMOVE ROOM from the pop-up menu.

### **Arranging Icons**

After you have created your rooms, you may move the device icons into these rooms. Simply leftclick on a device icon and drag it to the location of your choice. You may move any icon on the screen as long as "Changes Allowed" is shown in the lower-left-hand corner of the HomeSettings ThinkEssentials window. (If there are no icons shown on the screen, you may follow the directions for **Adding devices to the network** on page 5).

### **Renaming rooms**

To rename an existing room, press-and-hold the left mouse button over the room or right-click the room and then select RENAME ROOM from the pop-up menu.

## **PREVENTING / ALLOWING CHANGES**

You may desire to lock your configuration to prevent accidental modifications or to prevent others from adding or moving devices from the network.

If the lock icon in the bottom left hand corner of the screen is accompanied by the text CHANGES PREVENTED, you cannot add or remove devices, modify device or room layouts, or modify scenes or groups.

If the lock icon is accompanied by the text CHANGES ALLOWED, you can add or remove devices, modify device or room layouts, or modify scenes or groups.

To toggle between these two modes, simply click on the lock icon in the bottom left hand corner of the screen or its accompanying text.

**NOTE:** Some options, such as ADD DEVICE and REMOVE DEVICE may still be unavailable when changes are allowed if your USB stick is a Secondary Controller in the network. Only Primary Controllers can add or remove devices to or from a network.

## CREATING SCENES AND GROUPS

HomeSettings ThinkEssentials makes it easy to set up scenes and groups. These two features are very similar but are uniquely powerful.

Scenes activate a certain set of devices together, with each device changing to its own preset level. An example of this is "movie mode", where the living room lights dim to the OFF position, the living room blinds close, and the kitchen light turns on to 20% for a bit of background light. Other popular scenes include "romantic", "dinnertime", etc. Be creative!

Groups turn on or off a set of devices together where the devices do not change to preset levels, but instead turn on or off at the same time. This is very useful for turning on porch or holiday lights or outdoor lighting at sunset, and turning them off again around midnight, as one example.

### Adding scenes

To add a scene:

1. From the SCENES pane, click the ADD SCENE button. This button is generally found at the bottom of the list of scenes on the right side of the HomeSettings ThinkEssentials window.
2. The software will prompt you to name the scene. Enter a name, and press OK to continue. A new button will be created in the scenes list. It will be highlighted to indicate that the scene is currently being configured.
3. An instruction box will pop-up to remind you how to add or remove devices from a scene. Click OK to continue.
4. To include devices into this scene, simply click on the icon of the device. The device's icon will be circled on the screen indicating that it will be part of the scene. You may add additional devices to the scene by clicking on the device icons for those devices.

To remove devices from this scene, click on a device that currently has a circle around it, and the circle will then disappear. This indicates that the device will no longer be part of the scene.

You can further customize the scene by assigning different levels to each device in the scene. To change a device's desired level for this scene, press and hold the left mouse button or right-click on the device's icon. A pop-up window will appear, allowing you to change that device's level settings. Use this pop-up control to adjust the level of the device to your desired setting.

5. To save the scene, press the button that you had created for that scene. The highlight on the button will then go away.

### Adding Groups

To add a group:

1. From the GROUPS pane, click the ADD GROUP button. This button is generally found at the bottom of the list of groups on the right side of the HomeSettings ThinkEssentials window.
2. The software will prompt you to name the group. Enter a name, and press OK to continue. A new button will be created in the groups list. It will be highlighted to indicate that the group is currently being configured.
3. An instruction box will pop up to remind you how to add or remove devices from a group. Click OK to continue.
4. To include devices into this group, simply click on the icon of the device. The device's icon will be circled on the screen indicating that it will be part of the group. You may add additional devices to the group by clicking those additional devices.

To remove devices from this group, click on a device that currently has a circle around it, and the circle will then disappear. This indicates that the device will no longer be part of the group.

Assigning different levels to each device in a group is not necessary. When the group button is created, it will allow you to have ON and OFF control of that group.

5. To save the group, press the button that you had created for that group. The highlight on the button will then go away.

**NOTE:** There are two special scenes built into the scenes tab: ALL ON and ALL OFF. When activated, these scenes will turn ON or OFF any device that has been set to respond to ALL ON or ALL OFF commands. Devices can be assigned to respond to ALL ON or ALL OFF commands by right-clicking the ALL ON or ALL OFF button, and choosing the "Modify Scene" option. Changing the device's current level will not be reflected in ALL ON or ALL OFF scenes.

### Modifying scenes and groups

To modify a scene or group (adding or removing devices):

1. Press-and-hold the left mouse button or right-click the button for the scene or group you wish to modify.
2. To rename the scene or group, select the Rename Scene or Rename Group option respectively. Type in the new name and press OK.
3. To modify a scene or group, select the Modify Scene or Modify Group option respectively. Follow steps 3 to 5 in the Adding scenes or Adding groups sections to select or deselect devices and re-save the scene or group. (see page 8)

### Removing scenes and groups

To remove a scene or group:

1. Press-and-hold the left mouse button or right-click the button for the scene or group you wish to modify.
2. Select the REMOVE SCENE or REMOVE GROUP option respectively. The corresponding scene or group button will be removed from the list of scenes or groups.

## SETTING UP SCHEDULES

HomeSettings ThinkEssentials can help you save energy, make life more convenient, or increase the security of your home by automatically activating scenes or groups at certain times of the day or at sunrise or sunset. These schedules can be activated or deactivated at any time, and can occur on one or more days of the week.

### Adding or modifying schedules for a scene or group

To modify the schedule for a scene or group:

1. Press-and-hold the left mouse button or right-click the button for the scene or group.
2. Select the MODIFY SCHEDULE option. A window will pop up that shows the name of the scene or group that you are modifying in the title bar at the top of that window.
3. To add a new schedule event, click on the CLICK TO ADD SCHEDULE EVENT pull-down. To modify an existing schedule event, locate the event in the list. If you cannot locate the event, check the "Show All Schedules" checkbox in the lower-left corner.
4. In the "1. Select Action" pulldown, if the desired scene or group is not already selected, select it now. In the case of groups, select whether to turn the group on or off.
5. In the "2. Select Scene" or "2. Select Group" pull down, choose which scene or group you want to schedule.
6. Click on the days of week when the scheduled event should occur. To de-select a day, simply click the day a second time.
7. Click on the time pull-down near the right to change the time of day when the scheduled event should occur. You may optionally choose sunrise or sunset as the scheduled time for the event to occur.

To change the scheduled time of day in the Schedules window:

- a. Click on the HOURS digits. Press the up or down arrows located immediately to the right of the time setting to increase or decrease the hour indicated. You may optionally type in the hour on the numerical keyboard.
  - b. Click on the MINUTES digits. Press the up or down arrows located immediately to the right of the time setting to increase or decrease the minutes indicated. You may optionally type in the minutes on the numerical keyboard.
  - c. Click on the AM/PM indicator. Press the up or down arrows located immediately to the right of the time setting to switch the indicator between AM and PM.
8. To enable the scheduled event, make sure that the checkbox on the left side is checked. To disable the scheduled event, uncheck its checkbox.
  9. When done, close the SCHEDULES pop-up window.

**NOTE:** You may choose to let your computer go to sleep (into standby mode) when it is not used for a period of time. HomeSettings ThinkEssentials will attempt to wake your computer from standby when a schedule event should occur. If your computer has trouble waking from standby mode, disable standby on your computer.

Please refer to your computer's documentation for details regarding how to disable standby on your computer.

### **Viewing or modifying all schedules**

To view or modify all schedules:

1. Press-and-hold the left mouse button or right-click the button of any scene or group.
2. Select the "Modify Schedule ..." option.
3. Check the "Show All Schedules" checkbox in the lower-left corner of the Schedules pop-up window.

**NOTE:** To restrict the Schedules pop-up window to show only the scheduled events for the scene or group selected, uncheck the "Show All Schedules" checkbox.

**NOTE:** From time to time, the ThinkEssentials icon may appear in the Windows system tray, typically located in the bottom-right corner of your display screen. You may also right-click this icon and select "Modify Schedules..." when it is visible to view or modify all schedules.

## ADDITIONAL FEATURES

meSettings ThinkEssentials allows your USB stick (and thus your computer) to join an existing network, or to add another controller to its network.

### Joining an existing network

To add the USB stick and software to an existing Z-Wave network:

1. Activate the REPLICATION SEND mode on your Primary Controller. This option may also simply be referred to as ADD DEVICE.

On an Intermatic HA07 or HA09 controller, you can activate REPLICATION SEND mode as follows:

- a. Press and hold the INCLUDE button for about 5 seconds until the word "LEARN" appears on the HA07 display, or until the red and green LEDs flash on and off on the HA09.
- b. Release the INCLUDE button, then press and release the ON button on Channel 1 or Channel 2.

2. Switch to the ADVANCED SETTINGS tab, and then press the JOIN EXISTING NETWORK button.

The controller will then automatically send the USB stick a full listing of all the devices in the network (as well as placement and routing information). The software will indicate if the process was successful. If it was not successful, it will be necessary to repeat this step.

**NOTE:** If the USB stick joins an existing network and becomes a Secondary Controller, you cannot use the software to add or remove devices from the network.

**NOTE:** Any time you add or remove a device using the Primary Controller, the software and other Secondary Controllers should be updated. See **Receiving network updates** (see below).

**NOTE:** The process of joining a network is often referred to as RECEIVE CONFIGURATION or REPLICATION RECEIVE mode. The overall process is often called CONTROLLER REPLICATION.

### Receiving network updates

When you add or remove devices using the Primary Controller, those changes will generally not be reflected in the software. To update your USB stick and the software:

1. Activate the REPLICATION SEND mode on your Primary Controller. This option may also simply be referred to as ADD DEVICE.
2. Switch to the ADVANCED SETTINGS tab, and then press the RECEIVE NETWORK UPDATE button.

The controller will then automatically send the USB stick a full listing of all the devices in the network (as well as placement and routing information). The software will indicate if the process was successful. If it was not successful, it will be necessary to repeat this step.

**NOTE:** Any time you add or remove a device using the Primary Controller, the software should be updated by repeating this process.

**NOTE:** The process of receiving network updates is often referred to as RECEIVE CONFIGURATION or REPLICATION RECEIVE mode. The overall process is often called CONTROLLER REPLICATION.

### Adding a controller to the network

To add another controller to your network, follow the same procedure as **Adding devices to the network** (see page 5), but instead of pressing and releasing the PROGRAM button on a device, put the target controller into RECEIVE CONFIGURATION or REPLICATION RECEIVE mode.

On an Intermatic HA07 or HA09 controller, you can activate REPLICATION RECEIVE mode as follows:

- a. Press and hold the INCLUDE button for about 5 seconds until the word "LEARN" appears on the HA07 display, or until the red and green LEDs flash on and off on the HA09.
- b. Release the INCLUDE button, then press and release the OFF button on Channel 1 or Channel 2.

**NOTE:** The process of adding a controller to a Z-Wave network is often referred to as SEND CONFIGURATION or REPLICATION SEND mode. The overall process is often called CONTROLLER REPLICATION.

### **Leaving the current network**

remove the software and USB stick from its current Z-Wave network:

1. Activate the REMOVE DEVICE or REMOVE CONTROLLER mode on your Primary Controller.
2. Switch to the ADVANCED SETTINGS tab, and then press the LEAVE CURRENT NETWORK button.

The software will indicate if the process was successful. If it was not successful, it will be necessary to repeat this step.

**NOTE:** If your Primary Controller does not have this option, simply reset the USB stick instead. See **Resetting the USB Stick** (see below).

**NOTE:** At the end of this process, the USB stick will be reset and can be used to start its own network.

**NOTE:** Any time you add or remove a device using the Primary Controller, other Secondary Controllers should be updated.

**NOTE:** The process of leaving a network is often referred to as RECEIVE CONFIGURATION or REPLICATION RECEIVE mode. The overall process is often called CONTROLLER REPLICATION.

### **Updating an existing controller in the network**

To update the network and routing information in an existing controller on your network, follow the same procedure as **Adding devices to the network** (see page 5), but put the target controller into RECEIVE CONFIGURATION or REPLICATION RECEIVE mode.

**NOTE:** The process of updating a controller in a Z-Wave network is often referred to as SEND CONFIGURATION or REPLICATION SEND mode. The overall process is often called CONTROLLER REPLICATION.

### **Resetting the USB stick**

You have the option of resetting your USB stick, which will erase all network information currently stored on the stick. Resetting the USB stick will return it to its factory default state.

To reset the USB stick:

1. Switch to the ADVANCED SETTINGS tab, and then press the RESET USB STICK button.
2. A pop-up window will ask you if you are sure you want to reset the network. Click YES to reset the USB stick and erase the network. Click NO if you do not want to reset the USB stick or reset the network.

**NOTE:** If the USB stick is serving as a secondary controller, remove it from the network by pressing the LEAVE CURRENT NETWORK button and instructing the Primary Controller to remove the USB stick. This may be referred to as REMOVE DEVICE.

**NOTE:** If you reset your Primary Controller before removing all the devices from your network, you must reset each of the devices (see **Removing devices from the network**, page 5) before adding devices to the network again.

### **Pushpin Setting**

There are 3 panes located on the right side of the HomeSettings ThinkEssentials window, DESIGN, SCENES, and GROUPS. While not in use, these panes will automatically slide out of the way toward the right side of the window. You can optionally prevent these panes from sliding back by using the pushpin feature to keep the panes in place.

First click on the DESIGN, SCENES, OR GROUPS tab, then click on the pushpin icon located in the lower right corner of the HomeSettings ThinkEssentials window. The panes will not slide back as long as the pushpin feature is enabled.

To disable the pushpin setting, simply click on the pushpin icon. The pane will automatically slide toward the right side of the window out of sight.

### **Change Polling Rate Setting**

HomeSettings ThinkEssentials can ask Z-Wave devices in your network for their current status, and display it on the screen. The polling rate slider allows you to change the duration between updates made to the USB controller. The shortest duration can be set to 1 minute and the longest duration can be set to 60 minutes. You may click on the slider to change the rate at which updates are requested by the USB controller.

## TROUBLESHOOTING

### PROBLEM

I cannot add or remove devices to or from my network. The ADD DEVICE and REMOVE DEVICE buttons are faded out (dimmed).

- I cannot add or remove a device to or from my network. I press the PROGRAM button on the device but the software never responds.

- I joined an existing network instead of adding another controller to my network. Now, neither the software nor the controller can control anything.

I cannot control a device in my network, or am experiencing intermittent device failures or sluggishness controlling my devices.

### SOLUTION

- The USB stick might be a Secondary Controller. Only a Primary Controller may be used to add or remove devices, to or from a network. Use the Primary Controller to add or remove devices, and then update your USB stick and software (see [Joining an existing network](#), page 11).
- If you cannot successfully add a device, try removing it from your network first using the REMOVE DEVICE button. Even if it is not in your network, this operation will reset the device. Once the device has been reset, try adding it again.
- For your security, the USB stick must be within a few feet of the device to be able to add it to your network. If this is not possible, please set up your network with a portable remote controller and then copy this information to the USB stick (see [Joining an existing network](#), page 11).
- You have accidentally overwritten your Primary Controller with a blank network. Reset both controllers and all devices in your network, and set up your network again.
- Check to make sure that there is power supplied to all devices in your network.
- For plug-in models, ensure that the outlet is not a switched outlet, or that the outlet is switched on.
- For devices with no neutral connection (such as dimmers), ensure that the attached load (such as a light bulb) is not burned out.
- Your computer must be able to communicate with the device directly, or must be able to communicate by sending messages through other devices in your network. You may need to add additional devices to your network to provide for reliable communication (in between your computer and the sluggish / non-communicating device).
- Ensure that there are no broken or missing devices in your network. It is possible that the network is trying to send messages through broken or missing devices, so removing them may enhance network performance. (See [Removing or Replacing Broken Devices](#) on page 6.)
- For best performance, attach the USB stick to the USB extension cable included in this package. Then, place the USB stick in an open area away from walls or other dense materials or metal.

## TROUBLESHOOTING (cont.)

PROBLEM	SOLUTION
cannot add a device to my network. I cannot find its PROGRAM button.	<ul style="list-style-type: none"><li>• Refer to the product's instructions. For many light switches, turning on or off the switch will activate its PROGRAM button. For remote controllers, the PROGRAM button is often replaced with RECEIVE CONFIGURATION or REPLICATION RECEIVE mode.</li></ul>
<ul style="list-style-type: none"><li>• I tried to reset a device, but another device was removed from my network instead.</li></ul>	<ul style="list-style-type: none"><li>• The device had not been properly reset previously, and another device with its assigned ID was mistakenly identified. Reset the device again if necessary, and then re-add the device that was mistakenly removed.</li></ul>
<ul style="list-style-type: none"><li>• I cannot join another network. I press JOIN EXISTING NETWORK but the process never starts.</li></ul>	<ul style="list-style-type: none"><li>• To join an existing network, or to receive a network update, the USB stick must be within a few feet of the controller adding it to the network or sending the update.</li></ul>
<ul style="list-style-type: none"><li>• I moved a device, and now I cannot control it.</li></ul>	<ul style="list-style-type: none"><li>• Remove the device from your network, and then add it while it is powered in its new location.</li></ul>
<ul style="list-style-type: none"><li>• I am setting up a scene, but the software will not let me add a particular device to the scene.</li></ul>	<ul style="list-style-type: none"><li>• If the device's icon is covered by a red circle-slash (i.e. "broken" symbol), follow the troubleshooting steps for a broken device and then select the device again.</li><li>• Some devices do not support the functionality required to add them to a scene.</li></ul>
<ul style="list-style-type: none"><li>• I have set up a schedule for a group or scene, but the schedule is not being activated on time or is not being activated at all.</li></ul>	<ul style="list-style-type: none"><li>• Check to make sure that the schedule item is enabled (by checking the check box to the left of the scene), and that it is enabled on the desired days of week (by clicking on the desired days of the week between the event name and the event time.)</li><li>• Check to make sure that your computer's date, time, and time zone are set correctly. You can access these through "Date and Time Properties" in the Windows Control Panel.</li><li>• For astronomic (sunrise and sunset) schedules, ensure that the location nearest you is selected in the ADVANCED SETTINGS tab.</li><li>• Your computer must be turned on for the schedule items to occur on time. ThinkEssentials will also attempt to wake your computer out of low-power standby mode, but some computers do not reliably wake up from standby. If your computer does not wake reliably from standby mode, ensure that it is always powered on so that the schedules work properly.</li></ul>

## ONLINE SUPPORT AND USER COMMUNITY

Support for the software is available through peer support forums at the following website:  
<http://forums.controlthink.com>

Support for the hardware is available through the HomeSettings website:  
<http://www.homesettings.com/support>

## FEDERAL COMMUNICATIONS COMMISSION STATEMENT

This device complies with part 15 of the FCC rules. Operation of this device is subject to the following two conditions:

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

NOTE: 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 or more of the following measures:

- Reorient or relocate the receiving antenna or device.
- 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.

### NOTICE

Changes or modifications not expressly approved by Intermatic Inc. could void the user's authority to operate the equipment.

## SPECIFICATION INFORMATION

For Indoor Use

Operating Temperature Range: 32° to 104°F (0° to 40°C)

Compatible with Z-Wave® Enabled Products

System Requirements: Windows 2000, XP, or newer

Operating Range: 50 feet minimum, 100 feet typical

## WARRANTY INFORMATION

HomeSettings ThinkEssentials Software is covered by a separate warranty and end-user license agreement that may be found on the installation CD-ROM.

### THIS LIMITED 6 YEAR WARRANTY APPLIES TO THE HA22 USB Z-WAVE STICK ONLY.

If within six (6) years from the date of purchase, this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it, as its sole option, free of charge. This warranty is extended to the original household purchaser only and is not transferable. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product; (e) sealed lamps and/or lamp bulbs, LEDs and batteries; (f) the finish on any portion of the product, such as surface and/or weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs, or reinstallation costs.

**INTERMATIC INCORPORATED WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY MODIFIED TO EXIST ONLY AS CONTAINED IN THIS LIMITED WARRANTY, AND SHALL BE OF THE SAME DURATION AS THE WARRANTY PERIOD STATED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON THE DURATIONS OF AN IMPLIED WARRANTY, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.**

This warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing the product, along with proof of purchase, postage prepaid to the authorized service center listed below. This warranty is made by: Intermatic Incorporated/After Sales Service/7777 Winn Rd., Spring Grove, Illinois 60081-9698/815-675-7000 <http://www.homesettings.com> Please be sure to wrap the product securely to avoid shipping damages.

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