ComfortLink™ Trane XL850 Smart Control User Guide



The XL850 is an easy-to-use, programmable control with a color touch-screen.

When connected with Trane[®] Home you can control your home's heating and cooling system and up to 230 separate Z-Wave[™] devices from a smartphone, PC or tablet from virtually anywhere.

This guide will help you configure and connect your XL850 Smart Control quickly and easily.



Congratulations!

Thank you for choosing the Trane XL850 Smart Control. The intuitive interface and powerful features incorporated into the compact design of the color touch-screen control represent the latest in climate control technology from the industry's leader in residential HVAC systems.

This guide will introduce you to the unit's many features and get you started using your XL850 Smart Control right away.



Get Connected



The XL850 Smart Control can be accessed remotely with your smart device and it can serve as the central hub of an entire network of smart home devices. To fully enjoy these benefits your XL850 must be connected to Trane Home account. Trane Home provides an all-in-one cloud based app that allows you to access your XL850 anytime/anywhere connecting your smart devices through Z-Wave technology. See the full line of available features and functions at:

http://www.tranehome.com

For tutorials search: XL850.

Trane Home allows you to:

- Monitor and control your HVAC system using an internet-enabled smartphone, tablet or computer from anywhere in the world.
- Build a network of up to 230 Z-Wave enabled products on one account.
- View weather information including outdoor temperature, five-day forecasts, radar and weather alerts.
- Receive text and e-mail notifications that inform you of happenings in your home.
- · Receive software updates automatically.

Up to eight smart controls of any combination of the 1050, 850, 824, and 624 are allowed on your Trane Home account for no additional cost. A monthly subscription charge may apply beyond this number of devices.

Contents

User Setup Wizard	<u>3</u>
Navigating the Control	4
Temperature Control Panel	7
Home Screen - Simple View	
Home Screen Customization	9
Menu Screen	
Settings Screen	11
Scheduling	12
Changing Periods	14
Adding Periods	
Deleting Periods	16
Overriding Schedules	17
Configuring 1-Touch Presets	18
Setting Access Restrictions	20
Trane Home	21
Network Setup	22
Trane Home Registration	24
Adding/Removing Z-Wave Devices	26
Adding Z-Wave Devices (via mobile app)	27
Advanced Z-Wave Settings	28
Other Features	30
Notices	31
FCC Notice	31
IC NOTICE	31

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page 2 850 User Guide



Start Here!

The User Setup Wizard guides you through the XL850's user configurable settings.

To complete the Setup Wizard and connect the XL850 to Trane Home, you need:

- A high-speed connection to the Internet (wired or wireless)
- Your wireless (WiFi) network name and password
- An internet browser
- · A valid e-mail address

Accessing the User Setup Wizard



To access the User Setup Wizard, select **MENU > SETTINGS > USER SETUP WIZARD**.

When the Setup Wizard is activated, the process cannot be cancelled. The Wizard will guide you through the following steps:

Screen Settings

Adjust the Screen brightness, backlight, screen saver and color themes.

Screen Layout

 Choose up to two widgets to display on the Home screen.

Schedule Settings

 Set the XL850 scheduling feature to enabled or disabled. When Scheduling is disabled, 1-Touch Presets are available.

Guided Scheduling (Scheduling Enabled)

 Automatically create schedules based on answers to a series of questions.

1-Touch Presets (Scheduling Disabled)

 Configure heating and cooling target temperatures for Home, Away and Sleep conditions. The Presets are selectable from the Home Screen.

Network Setup

 Select your wireless network and enter your password. If your wireless network is available but not shown in the list, select Hidden Network, and manually enter your network's name (SSID).

User Setup Wizard

NOTE: If you are having difficulty enrolling the XL850 to your account, visit the troubleshooting section at www.tranehome.com for help.

Trane Home registration (requires Internet connection)

 Your XL850 control comes equipped with remote access and other features from Trane Home.

Weather (requires Trane Home registration)

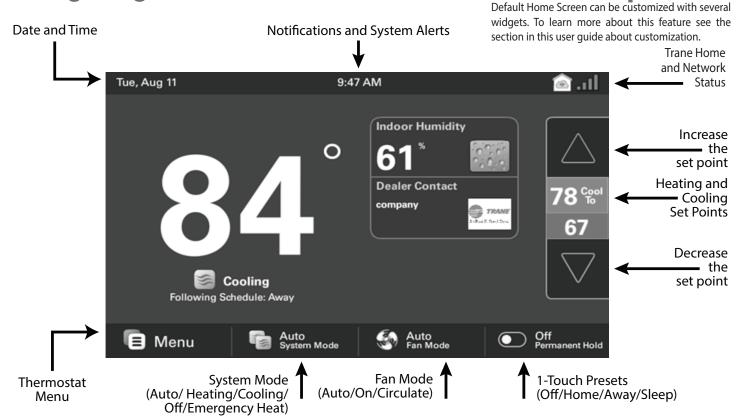
 Input the Zip Code of the location for appropriate weather information including five-day forecasts, radar display and weather alerts.

That's it! You can now begin enjoying the benefits of your new Trane XL850 Smart Control!

NOTE: Wireless Setup is not required when the XL850 is hard-wired to your home network.

Navigating the Control

Home Screen - Simple View



page 4 850 User Guide

Homeowners may toggle between Home Screen Options by selecting: Home Screen > Menu > Settings > Screen > Home View Options. Select Simple View or Classic View.

Home Screen View

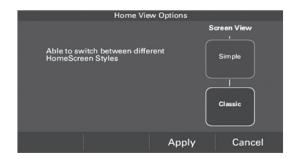
NOTE: Simple View is the default view.











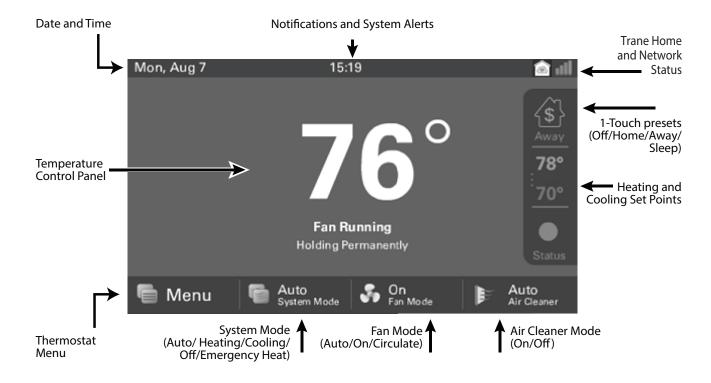


Classic View

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Home Screen - Classic View

Home Screen can be customized with several widgets. To learn more about this feature see the section in this user guide about customization.

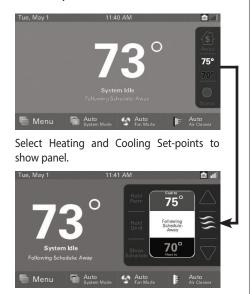


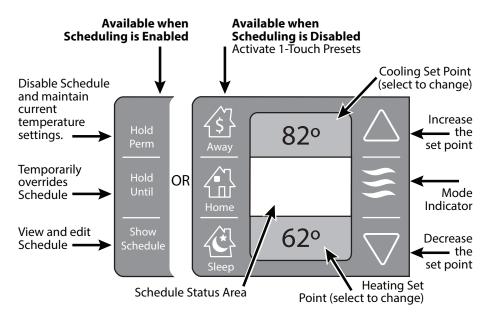
page 6 850 User Guide

Temperature Control Panel

The Temperature Control Panel is where target temperatures are manually set and adjusted.

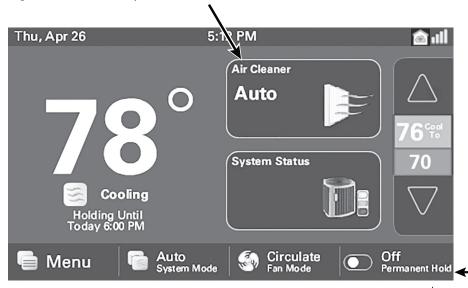
The panel is shown on the Classic View Home Screen only.





Home Screen - Simple View

Optionally, up to 2 widgets may be chosen to appear on your home screen. They can be selected by navigating to Menu > Settings > Screen > Screen Layout



When scheduling is enabled, the Preset button is disabled and a Permanent Hold button is displayed. The system will follow the custom schedule vou've created. You may override the schedule by adjusting the temperature settings with the up/down arrows at the right of the screen. At the next period change, the schedule will resume.

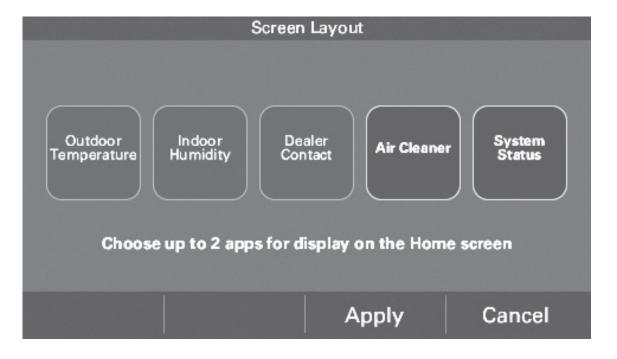
To maintain a temperature indefinitely, adjust the setpoint to the desired temperature and select the Permanent Hold button. It will then display ON, and the control will maintain that temperature setpoint until you manually change it. Select the Permanent Hold button again to turn Permanent Hold OFF. The Control resumes following the schedule.

page 8 850 User Guide

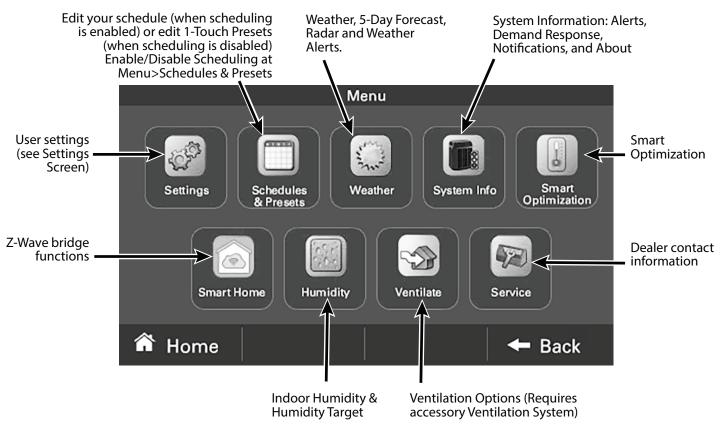
Home Screen Customization

Homeowners may customize the Home Screen by selecting: Menu > Settings > Screen > Screen Layout

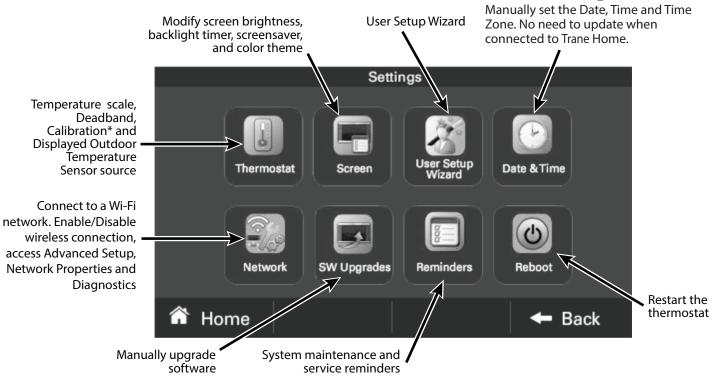
Choose up to two widgets (or apps) to show up on the Home Screen. Make selection and select **Apply**.



Menu Screen

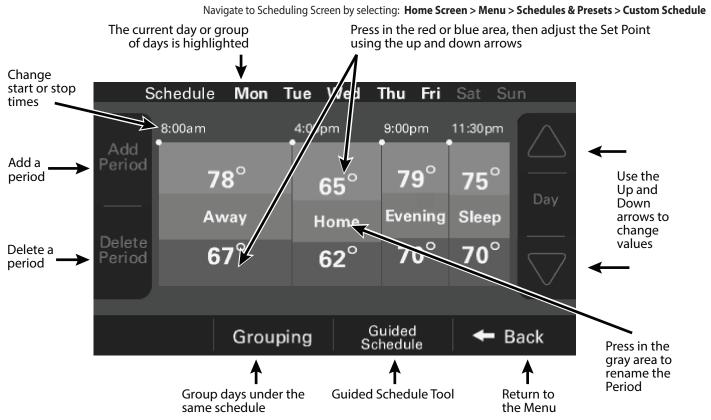


Settings Screen



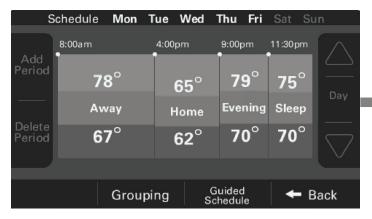
^{*} Allow at least 1 hour for the Control to acclimate to the ambient room conditions. Temperature display may be inaccurate during the acclimation period.

Schedule Screen

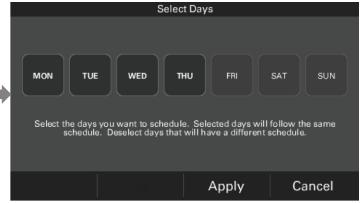


page 12 850 User Guide

Grouping Screen



Select **Grouping** to use the same set points and times for multiple days.



Then select the days to be grouped or removed from the group. Select **Apply**. The previous Scheduling screen will appear. Whenever a set point or period start or stop time is changed the entire group of days will change to the new set point and period time.

HINT: To copy a schedule between days, group them, select **Apply**, then open the grouping menu and de-select the days. Select **Apply** again.

Changing Periods

Changing Period Start or End Times

- Select anywhere in the Period to make it active. Other Periods will dim and the Start and End times for this Period will be in a black box.
- Select the TIME START or TIME END and adjust the time using the UP and DOWN arrows. NOTE: The XL850 uses intelligent technology and will not allow setting an illogical start or end time. Periods must be at least 30 minutes in duration.

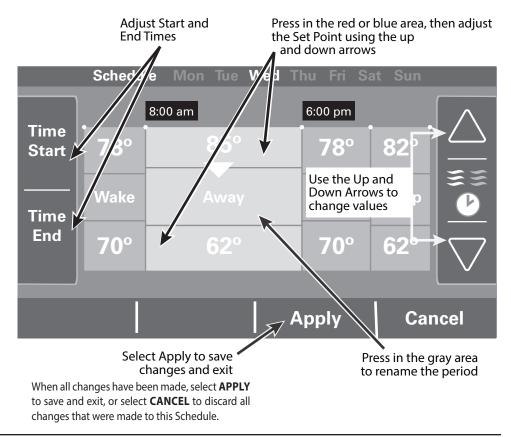
Changing Period Set Points

- 1. Select the active Period's Cooling or Heating Set Point.
- 2. Adjust the Set Point using the **UP** or **DOWN** arrows.

Changing the Period Name

- Select the **PERIOD NAME** (Wake, Away, etc.).
- Select a predefined name or select **NEW** and select **NEXT**.
- 3. If selecting a new name, enter the name using the on-screen keyboard.
- 4. Select **NEXT**.

To change Periods select: Home Screen > Menu > Schedules & Presets > Custom Schedule > Select Schedule time



page 14 850 User Guide

Navigate to Add Period by selecting: Home Screen > Menu > Schedules & Presets > Custom Schedule > Add Period

The XL850 Smart Control is capable of adjusting the temperature settings throughout the day according to a user-programmable schedule.

Each day of the week can have its own unique schedule, and each day can have a maximum of four Periods.

Important: Scheduling must be enabled before a schedule can be defined. To verify that Scheduling is enabled, navigate to MENU > SCHEDULES & PRESETS and verify that the USE SCHEDULES button is set to ON.

To set or modify schedules, navigate to **HOME** > **MENU** > **SCHEDULES & PRESETS** > **CUSTOM SCHEDULE** or select **SHOW SCHEDULES** from the Temperature Control Panel.

Periods define the time of day when the target temperature is adjusted. Each day can have from 1-4 Periods, and each day can have different number of periods. The Scheduling Screen shows the start time for each Period highlighted across the top row.

Adding Periods

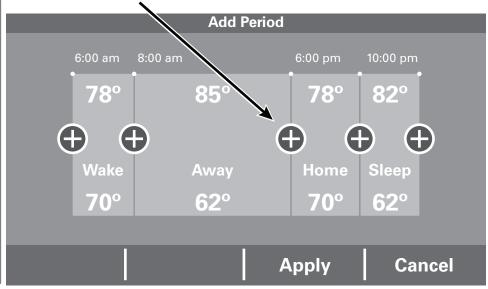
- 1. Select **ADD PERIOD**, the Add Period Screen is displayed.
- 2. Select the green circle where you would like to insert a Period.

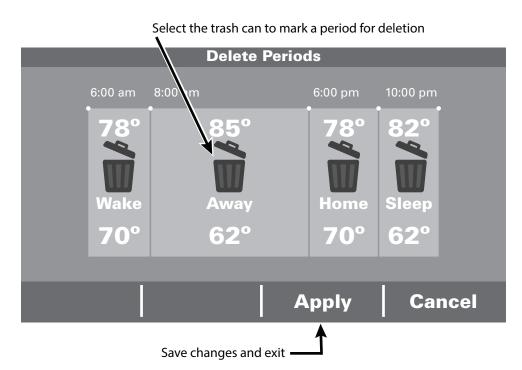
- Choose a name for the new Period or select New to define a custom name and select NEXT.
- 4. If selecting a new name, enter the name using the on-screen keyboard.
- Select NEXT.

Adding Periods

- 6. Add additional periods, the maximum per day is 4.
- 7. Select **APPLY** to save your changes and return to the Schedule Screen. The new period should be displayed.

Select the green target to insert a new period





Deleting Periods

- From the Schedule Screen select **DELETE PERIOD**, the Delete Periods Screen is displayed.
- Select the TRASH CAN icon in the Period(s) you wish to delete. Note that each day must have at least one Period.
- Select APPLY to save your changes and return to the Schedule Screen. The changes should be reflected in the display.

page 16 850 User Guide

Overriding Schedules

NOTE: These functions require Scheduling to be enabled. To enable Scheduling, go to **HOME** > **MENU** > **SCHEDULES & PRESETS** > **USE SCHEDULES ON**.

Hold Until

Follow these steps to override a schedule until a specified time.

- Press in the INDOOR TEMPERATURE area to reveal the Temperature Control Panel.
- To change the Cooling Set Point, select the blue COOLING SET POINT. The Mode Indicator will display blue wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- To change the Heating Set Point, select the red **HEATING SET POINT**. The Mode indicator will display red wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- To change the duration of the Hold, press in the STATUS AREA. The day will appear in bold type.
- 5. Use the **UP** and **DOWN** arrows to select the day when the hold will cancel.

- Press in the STATUS AREA again to toggle to the Time setting. The Time will appear in bold type.
- 7. Use the **UP** and **DOWN** arrows to select the time when the hold will cancel.
- 8. Press in the **INDOOR TEMPERATURE** area to return to the Home Screen.
- The words "Holding Until" will appear under the Indoor Temperature.

Hold Permanently

Follow these steps to permanently override a schedule. The changes you make will be held until you cancel the hold.

- Press in the INDOOR TEMPERATURE area to reveal the Temperature Control Panel.
- To change the Cooling Set Point, select the blue COOLING SET POINT. The Mode Indicator will display blue wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- To change the Heating Set Point, select the red HEATING SET POINT. The Mode Indicator will display red wavy lines.

- Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- Select HOLD PERM. The words "Hold Perm" will appear in bold type.
- Press in the INDOOR TEMPERATURE area to return to the Home Screen.

The display will indicate Hold Permanently below the Indoor Temperature.

Cancelling an Override

To cancel Permanent Hold or Hold Until, follow these steps.

- Press in the INDOOR TEMPERATURE area to reveal the Temperature Control Panel.
- 2. To cancel Hold Until, select **HOLD UNTIL** and the words "Hold Until" will dim.
 - To cancel Permanent Hold, select **HOLD PERM**. The words "Hold Perm" will dim.
- Press in the INDOOR TEMPERATURE area to return to the Home Screen.

The words "Following Schedule" will appear below the Indoor Temperature.

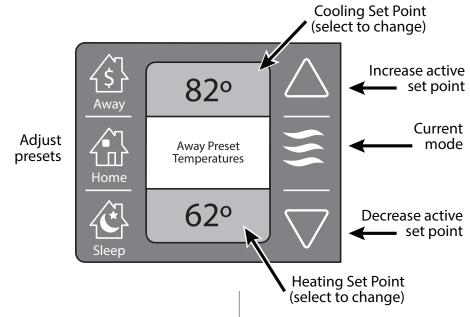
1-Touch Presets provide predetermined Heating and Cooling Set Points for Home, Away and Sleep time periods.

NOTE: 1-Touch Presets require Scheduling to be disabled. To disable Scheduling, go to **HOME** > **MENU** > **SCHEDULES & PRESETS** > **USE SCHEDULES OFF**.

When scheduling is disabled, heating and cooling set points are maintained indefinitely. When a temperature change is desired, the user must manually adjust the XL850 Control to the new setting.

Configuring 1-Touch Presets

- To change the Cooling Set Point, select the blue COOLING SET POINT to activate the setting. The current System Mode indicator will display blue wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- To change the Heating Set Point, select the red **HEATING SET POINT** area to activate the setting. The current System Mode indicator will display red wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.



- 3. Repeat the process for Home and Sleep settings.
- 4. Select **APPLY**, then **HOME** to return to the Home Screen.

NOTE: When Scheduling is enabled, only the Away preset is available and can be used for energy savings.

Configuring 1-Touch Presets

1-Touch Presets provide predetermined Heating and Cooling Set Points for Home, Away and Sleep time periods.

NOTE: 1-Touch Presets require Scheduling to be disabled. To disable Scheduling, go to **HOME** > **MENU** > **SCHEDULES & PRESETS** > Toggle **USE SCHEDULES** to **OFF**, or if scheduling is disabled touch icon on home screen.

When scheduling is disabled, heating and cooling set points are maintained indefinitely. When a temperature change is desired, the user must manually adjust the XL850 Control to the new setting.

Configuring 1-Touch Presets

- To change the Cooling Set Point, select the blue COOLING SET POINT to activate the setting. The current System Mode indicator will display blue wavy lines.
 - Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- To change the Heating Set Point, select the red HEATING SET POINT area to activate the setting. The current System Mode indicator will display red wavy lines.

- Use the **UP** and **DOWN** Arrows to adjust the Set Point to the desired temperature.
- 3. Repeat the process for Home and Sleep settings.
- 4. Select **APPLY**, then **HOME** to return to the Home Screen.

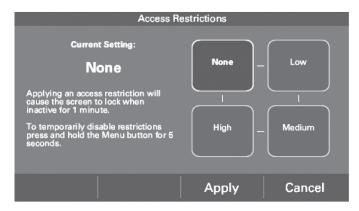
NOTE: When Scheduling is enabled, only the Away preset is available and can be used for energy savings.

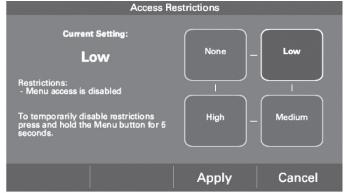


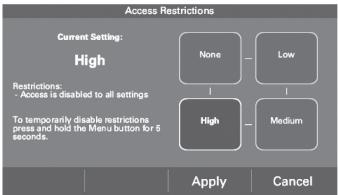


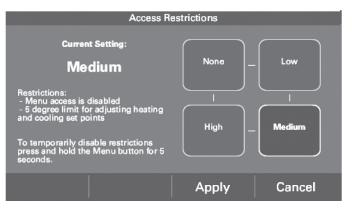
Setting Access Restrictions

To select access restrictions select: **Home Screen > Menu > Settings > Screen > Access Restrictions**









page 20 850 User Guide

Trane Home

When enrolled to a Trane Home account, the XL850 is a Z-Wave PlusTM security-enabled device that can serve as a central hub for an entire network of home automation devices from different manufacturers and product categories, including all non-battery powered devices that will act as repeaters on your network. The XL850 can display local weather conditions, five-day forecasts and National Weather Service warnings and alerts. See the section on adding Z-Wave Devices for more information on taking advantage of this functionality.

A basic Trane Home account subscription is included with the XL850 Control at no additional charge.

NOTE: Adding additional devices may add charges to your Trane Home account.

To create your Trane Home account go to www.tranehome.com.



Control everything from anywhere with a smartphone or computer





Motion Sensors





Up to 230 separate Z-Wave devices



Appliance Modules



Wall Receptacles



Doorlocks and Deadbolts

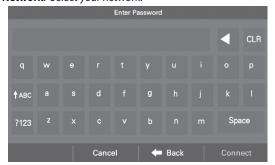
Network Setup

There are several ways to connect the XL850 Control to a local network:

Option 1. Wi-Fi connection

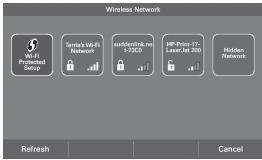


Wi-Fi Step 1. Navigate **Home > Menu > Settings > Network > Connect to WiFI Network**. Select your network.



Wi-Fi Step 2. Enter your Password then select **CONNECT**.

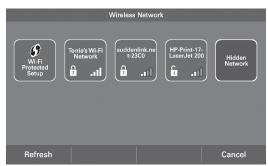
Option 2. WPS for Wi-Fi connection



WPS Step 1. Press the WPS button on your router, then return to your XL850 Control and select the **WI-FI PROTECTED SETUP** button on the Wireless Network screen. Select **NEXT**.

page 22 850 User Guide

Option 3. Hidden Wi-Fi network connection



Hidden WiFi Step 1. Select **Hidden Network** which will be at the end of the list of available networks. If there are more than eight networks, you will need to scroll to the next page.



Hidden WiFi Step 2. Enter the name of the network you would like to connect to then select **Next**.



Hidden WiFi Step 3. Select the security type for this network. If you select **None**, select **Connect**.



Hidden WiFi Step 4. If you select **WPA** or **WEP**, you will need to enter a password, then **CONNECT**.

Option 4. Ethernet connection

The XL850 also features an Ethernet jack on the back and may be connected to a router using CAT5 cable. The control will recognize an Ethernet connection. If an Ethernet cable is connected the User Wizard will skip the Wireless setup screens and display the Trane Home registration screen next.



Trane Home Registration

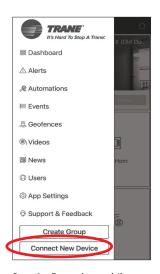
Trane Home Registration

To control your home climate system from your web enabled smartphone, tablet or computer follow these steps.

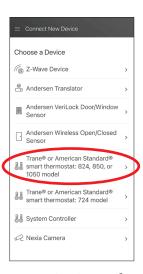
Step 1. Go to www.tranehome.com or use your mobile app to setup a Trane Home account. Download the Trane Home mobile app from the Google Play™ Store or App Store®, then launch the app. If you already have an account, log in and go to Step 3.



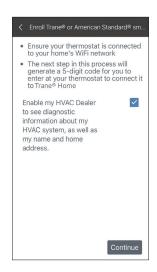
Step 2. Select **SIGN UP NOW** to set up an account or log in to an existing account.



Step 3. From the mobile app Dashboard select the Menu icon and then select CONNECT NEW DEVICE.



Step 4. Select the Trane® or American Standard® smart thermostat: 824, 850, or 1050 model drop down arrow.



Step 5. Select CONTINUE.

page 24 850 User Guide

Trane Home Registration



Step 6. The mobile app will generate a Pin Code. Record the Pin Code.



Step 7. Return to the XL850 control and select **NEXT**.



Step 8. Enter the Pin Code and select **NEXT**.



Step 9. Read the License Agreement, then **ACCEPT** or **DECLINE**.



Step 10. Registration successful. Select **DONE**.

Adding/Removing Z-Wave Devices

To Add or Remove Z-Wave Devices select: **Home Screen > Menu > Smart Home**

Your XL850 is designed to integrate seamlessly with your Trane Home account.

Adding Z-Wave Devices

- From the HOME Screen, select MENU, then select SMART HOME.
- Select ADD DEVICE and follow the device manufacturer's instructions for setting the Z-Wave device into learn mode. You will have

four minutes to set the device into learn mode after selecting the **ADD DEVICE** button.

Removing Z-Wave Devices

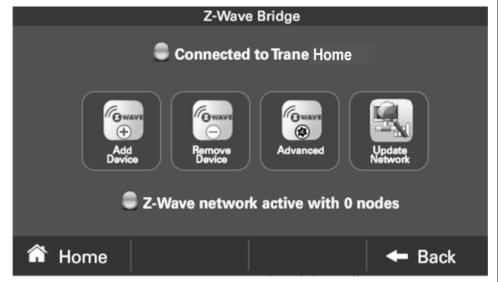
- 1. From the **HOME** Screen, select **MENU**, then select **SMART HOME**.
- Select REMOVE DEVICE and follow the manufacturer's instructions for setting the Z-Wave device into learn mode. You will have four minutes to set the device into learn mode after selecting the REMOVE DEVICE button.

Advanced Z-Wave Settings

Select **ADVANCED** for advanced Z-Wave functions including unregistering your bridge from Trane Home or factory resetting your bridge. See the Advanced Z-Wave Settings section for more information.

Update Network

Select **UPDATE NETWORK** to update the network of your bridge. Updating the network can generate a lot of Z-Wave traffic over the network and can take up to 15 minutes to complete.



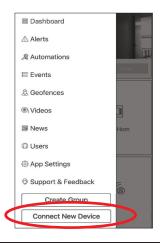
page 26 850 User Guide

Adding Z-Wave Devices (via mobile app)

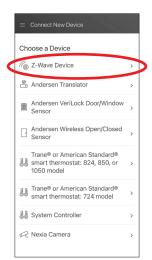
Alternatively, your XL850 allows you to add Z-Wave devices using the Trane Home app on your mobile device.

Adding Z-Wave Devices

- 1. Start the mobile app.
- 2. Select the menu button in the top left corner.
- At the bottom of this slide out menu, select Connect New Device.



4. Select Z-Wave Device.



 When prompted, prepare the device to be added to the Z-Wave network by following the device manufacturer's instructions to put device into add mode. You will have four minutes to complete this process.



Advanced Z-Wave Settings

Navigate to Advanced Z-Wave Settings Screen by selecting: Home Screen > Menu > Smart Home > Advanced

The **ADVANCED SETTINGS** screen contains three very powerful functions. Each of these functions is very specific and should be approached with a measure of caution.

Following the reset, it will be necessary to remove and then add all of the devices back to your network.

Bridge Information

If this bridge is being used as a secondary or inclusion controller in the network, please reset this bridge only in the event that the primary controller is missing or otherwise inoperable.

Learn

To add the bridge to an existing network, follow your primary controller's instructions to put the primary controller into Add Mode. Then select the Learn button on the bridge.

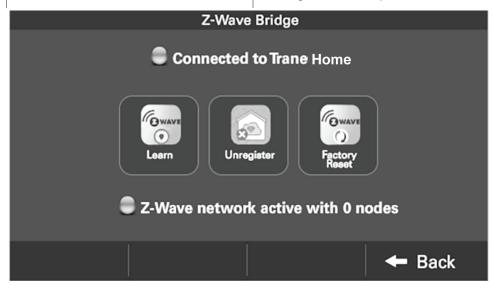
This function copies a new Z-Wave network to the bridge from another controller. This function is not allowed if your bridge is a primary controller with included Z-Wave devices.

Unregister

Removes the bridge from Trane Home. All remote control features will be disabled.

Factory Reset

Resets all Z-Wave information and removes all devices from the bridge. If this bridge is the primary controller for your network, resetting it will result in all the devices in your network being removed.



page 28 850 User Guide

Advanced Z-Wave Settings

Association Group Information Table					
Group	Profile	Command Class and Command List	Group Name	Max Number of Devices	Trigger
1	General: Device Reset Locally Notification		Lifeline	5	Factory Reset

Terminology					
The following terms may be used interchangeably by other devices, manufacturers, and Trane Home.					
ADD	Add, include, inclusion, enroll, connect				
REMOVE	Remove, exclude, exclusion				
COPY	Copy, learn, replicate, replication				

Other Information			
Basic Command Class:	This device ignores Basic Set/Get commands. This device controls other devices with OFF (0x00) and ON (0xFF) as a minimum.		

Other Features

Smart Optimization

The XL850 Control is equipped with Smart Optimization. By executing a series of blower tests, Smart Optimization will customize the XL850 Control to each unique environment and increase the accuracy of the sensed indoor temperature and overall system performance.

Smart Optimization is enabled by default and will automatically execute approximately 18 hours after initial power up. Smart Optimization takes 90 minutes to complete and during the process, heating and cooling operations are disabled. The screen will indicate that the XL850 Control is in Smart Optimization mode.

To delay Smart Optimization for an additional 18 hours, touch the XL850 Control Screen and hold for five seconds.

To disable Smart Optimization altogether, navigate to **Home > Menu > Smart Optimization** and select **Disabled** and select **Apply**.

To enable Smart Optimization, navigate to Home > Menu > Smart Optimization and select Enabled and select Apply. Smart Optimization will execute in approximately 18 hours.

To manually trigger Smart Optimization, first disable, then re-enable the feature.

Automatic Software Updates

When the XL850 is connected to Trane Home account, software updates will occur automatically and do not require user intervention.

NOTE: Internet services are required for automatic software updates.

page 30 850 User Guide

Notices

FCC Notice

FCC ID: XVR-CONT8506

INFORMATION TO USER

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. The antenna(s) used for this transmitter 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.

This equipment has been tested and found to comply with the limits for 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 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
- 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

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

IC NOTICE

IC: 6178D-CONT8506

This device complies with Industry Canada license-exempt RSS standard(s). 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. The distance between user and device should be no less than 20cm.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. la distance entre l'utilisation et l'appareil ne doit pas être inférieure à 20 cm.



Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

Representative-only illustrations included in this document.

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