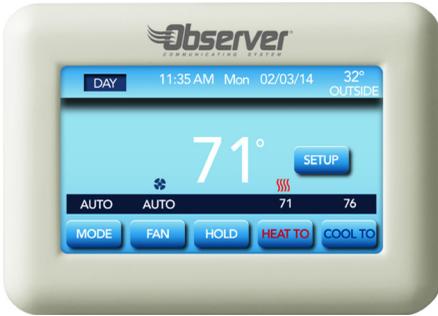




Communicating Wall Control With Wi-Fi® Capability Owner's Manual TSTAT0201CW



U.S. Patent No. 7,243,004
U.S. Patent No. 7,775,452

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Wi-Fi® is a registered trademark of the Wi-Fi Alliance Corporation.*

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Introduction

CONGRATULATIONS! Your decision to choose the Observer[®] Control puts you in a select group of homeowners who understand the value of precise comfort control and appreciate the simplicity of an easy-to-use, intuitive, control.

Your new Observer Control offers high quality comfort technology. Please take a few moments to review this manual. Set up a comfort schedule that makes sense for your lifestyle; register for remote access; then relax and enjoy the new comfort of your home!

Home Screen



The basic information displayed on the Home Screen consists of the following:

- Current schedule period: WAKE, DAY, EVE, or SLEEP
- Date and time
- Room temperature (Zone specific if applicable)
- Room humidity

Actual Outdoor temperature (if applicable)

System mode: OFF, HEAT, COOL, AUTO or EMHT (if applicable)

Fan mode: AUTO, LOW, MED or HIGH (is applicable)

Heat To setting (Zone specific if applicable)

Cool To settings (Zone specific if applicable)

Set Day and Time



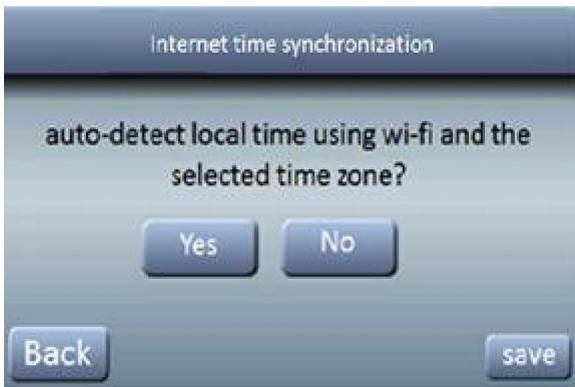
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To set the current time and date, press **TIME/DATE** button, opens up new screen which allows user to select time zone, time date setting and Internet Time synchronization screens.



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Choose either Set Date/Time (manual) or Internet Time Synchronization (automatic). When choosing to automatically set the time and date from the Internet, you **MUST** also set the time zone on the Set Time Zone screen. **NOTE:** Enabling Daylight Savings Time (DST) is a manual setting that advances the wall control internal clock setting by one hour when DST is set to On; the clock is set back to Standard time when DST is set to Off. Use the Set Date / Time screen to enable Daylight Savings Time during the DST period in your location.



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Manually setting the Time and Date is only necessary if the user has NOT chosen to automatically synchronize the time and date from the Internet, or if an Internet connection is not

available. To set the time and date manually, choose the Set Date / Time option.



Under date, you can select the month, day, or year buttons; then use the ▲ and ▼ to select the appropriate date.

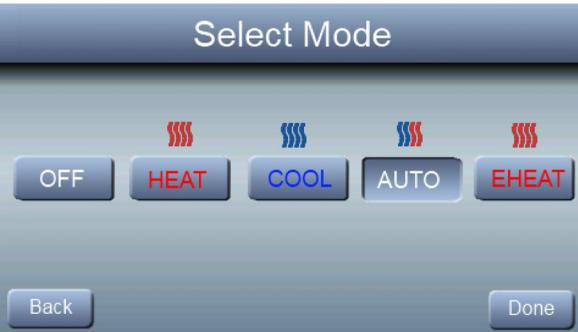
Under time, you can select the hour, minute, and am/pm; then use the ▲ and ▼ to select the appropriate time.

You also have the option of selecting between a **12 HR** or **24 HR** clock format.

Finally, you can choose whether you observe day light savings time by pressing the **ON** or **OFF** button. Press **DONE** to save and exit the information that you have entered.

System Mode

Press **MODE** to select the desired system mode.



Off: Heating and cooling systems are off

Auto: Observer® Control automatically selects heating or cooling to maintain your comfort during transitional heating and cooling seasons

Heat: Observer® Control operates only the heating system

Cool: Observer® Control operates only the cooling system

Emergency Heat: Only electric heat will be used for heating (only for heat pump with auxiliary heat)

NOTE: The fan may operate even though the system Mode is set to OFF, if the Fan Mode is set to a condition other than AUTO.

Fan Setting

The Observer® Control allows you to adjust the fan speed during continuous fan operation.





Press **FAN**, then select the desired fan speed; then press **DONE**

LOW, MEDIUM, HIGH

AUTO: Fan only runs when the heating or cooling system is running.

Fan Airflow is not selectable by zone. When continuous fan is used, all zones will be open.

NOTE: Low, Medium, and High airflows will only be available when a communicating indoor unit is installed.

Hold Current Temperature

The Observer® Control allows you to maintain your current temperature by overriding the program schedule. Press the **HOLD** button to override the program and maintain your current indoor temperature setting indefinitely.



To go back to your programmed schedule, simply press the **RESUME** button.



NOTE: For Zoning, overriding the program schedule can be done for each individual zone by pressing the Zone name button. The HOLD / RESUME override program schedule can be independently selected for each zone.

Adjusting Temperature (Temporary Hold)

The Observer® Control allows you to adjust the indoor temperature at any time, overriding the programmed schedule.

Heating

To change the heating set point, press **HEAT TO**; then use the ▲ and ▼ buttons to set the desired temperature.



An override time will be displayed on the right side of the screen. You can change the override time in 15-minute increments by pressing the arrows below the time. When you have completed your changes, press **DONE**.

NOTE: If the schedule is already set to HOLD or HOLD UNTIL, the Until option will not be shown on this screen.

Cooling

To change the cooling set point, press **COOL TO**; then use the arrow buttons to set the desired temperature.





An override time will be displayed on the right side of the screen. You can change the override time in 15-minute increments by pressing the arrows below the time. When you have completed your changes, press **DONE**.

NOTE: For Zoning, temporarily overriding the program schedule can be done for each individual zone by pressing the Zone name button. The HEAT TO / COOL TO override feature can be independently selected for each zone.

Setup

From the Home Screen, press **SETUP** to access the Basic Setup Screen.



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Screen/Zones

From the **BASIC SETUP** screen; press **SCREEN/ZONES**.

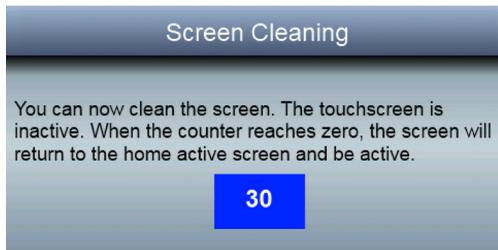


From this screen, you will have the option to adjust the screen brightness by pressing the **ADJUST BRIGHTNESS** button. Use the ▲ and ▼ buttons to select your desired screen brightness. Press **DONE** to return to normal operation.

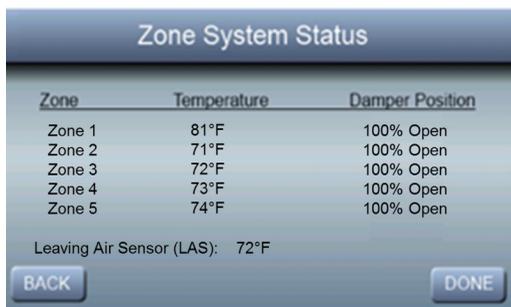


To clean your screen, press the **CLEAN SCREEN** button. The screen will remain locked for 30 seconds to allow you to clean

the display without changing settings. After 30 seconds, the screen will return to the main screen and become active.



Zone Status



Zone System Status

<u>Zone</u>	<u>Temperature</u>	<u>Damper Position</u>
Zone 1	81°F	100% Open
Zone 2	71°F	100% Open
Zone 3	72°F	100% Open
Zone 4	73°F	100% Open
Zone 5	74°F	100% Open

Leaving Air Sensor (LAS): 72°F

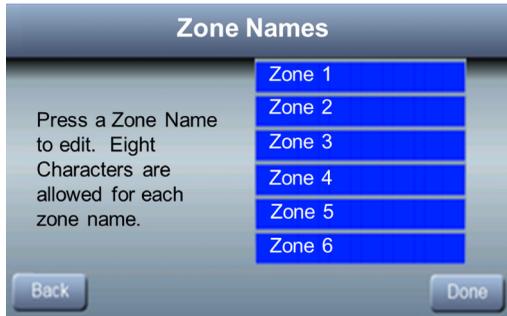
BACK DONE

To view the status of each zone, press **Zone Status** to see the current Temperature and Damper Position for each of your installed zones. In addition, the current temperature from the Leaving Air Sensor will also be displayed on this screen.

NOTE: Please see the **Zoning** section for more information regarding the features available with Observer® Zoning System.

Zone Names

Press **Zone Names** to customize the descriptions for each of your installed zones.



NOTE: In order to activate the Key Board, press each individual Zone name. Zone names can be up to eight characters in length.



Press **Done** to save your changes.

Schedule

Determine Your Comfort Schedule

Before you program your Observer® Control, take a moment to plan your comfort schedule. Each day is divided into four time periods: WAKE, DAY, EVE, and SLEEP. You can select a different heating and cooling temperature for each time period, based on your daily or weekly schedule.

Programming Your Comfort Schedule

The Observer® Control gives you flexibility in how to create your comfort schedule. You can choose one schedule for all days; create a schedule for your work week and the weekend; or you can make every day different.

One Schedule for All Days

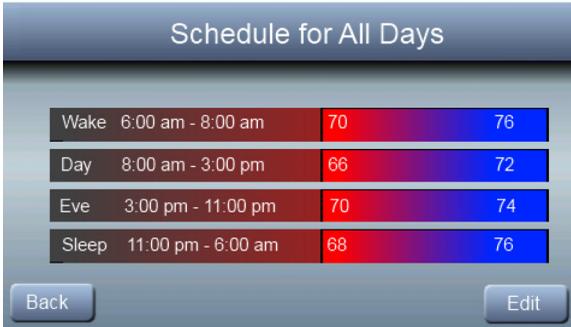
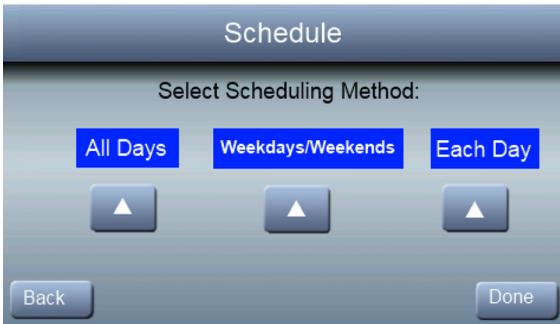
You can create one schedule for all seven days in the week.

1. Press **SETUP**, then **SCHEDULE**

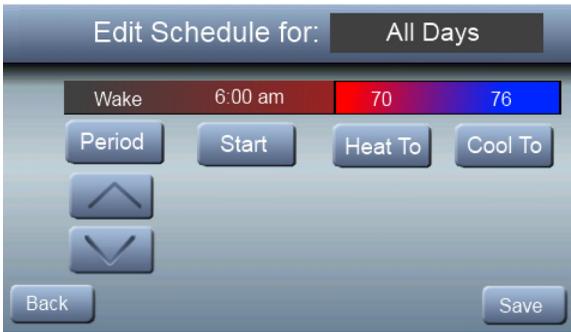


2. Press ▲ under “All Days”, then press **EDIT**.

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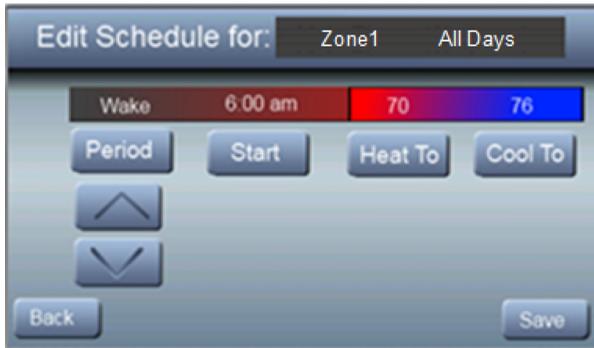
3. Press **PERIOD**; then use the ▲ or ▼ to select the period to change.



4. Press **START**; then use the ▲ or ▼ to change the time the corresponding period starts.
5. Press **HEAT TO**; then use the ▲ or ▼ to change the desired heating temperature for that period.
6. Press **COOL TO**; then use the ▲ or ▼ to change the desired cooling temperature for that period.
7. Press **SAVE** to save your new schedule and exit (or press **CANCEL** to exit without saving.)

NOTE: For Zoning

Follow Steps 1 – 7 for each individual Zone using the ▲ / ▼ arrows to select the desired zone.

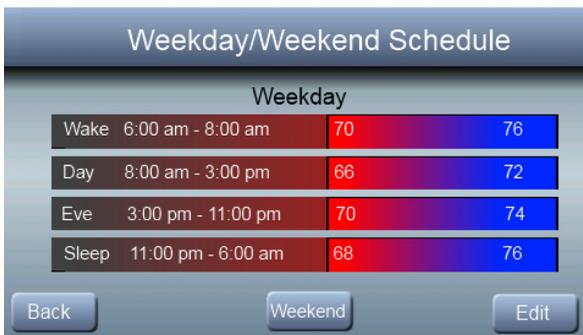
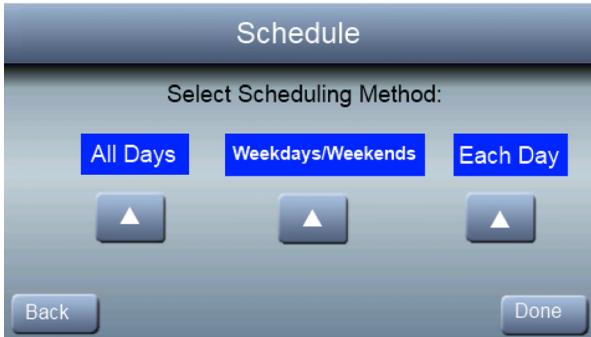


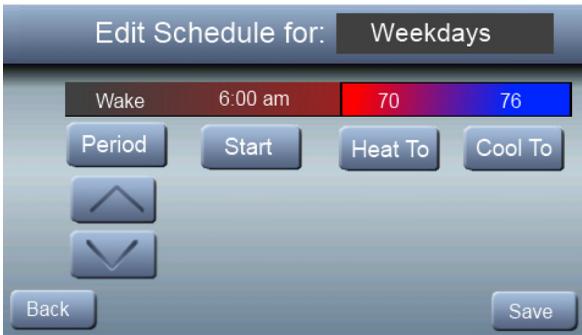
Weekday/Weekend

You can create a schedule for your work week and a separate schedule for the weekend.

1. Press **SETUP**, then **SCHEDULE**

2. Press ▲ under “Weekday/Weekend”; then press **EDIT** to modify the weekday schedule. To modify the weekend schedule, press the **WEEKEND** button.

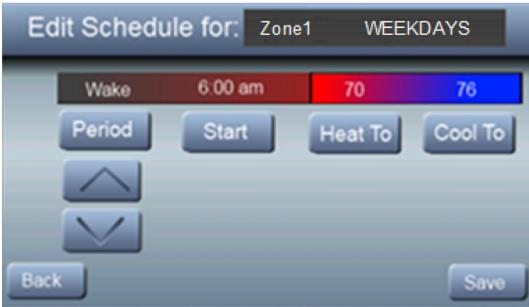




3. Press **PERIOD**; then use the ▲ or ▼ to select the period to change.
4. Press **START**; then use the ▲ or ▼ to change the time the corresponding period starts.
5. Press **HEAT TO**; then use the ▲ or ▼ to change the desired heating temperature for that period.
6. Press **COOL TO**; then use the ▲ or ▼ to change the desired cooling temperature for that period.
7. Press **SAVE** to save your new schedule and exit (or press **CANCEL** to exit without saving.)

NOTE: For Zoning

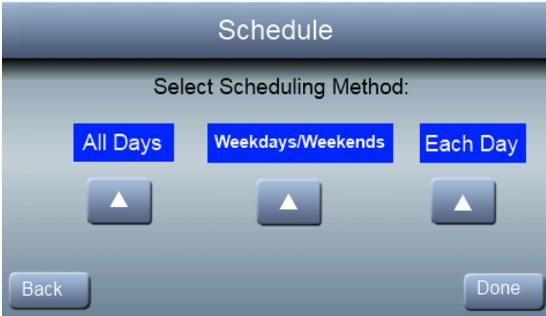
Follow Steps 1 – 7 for each individual Zone using the ▲ / ▼ arrows to select the desired zone.



Each Day

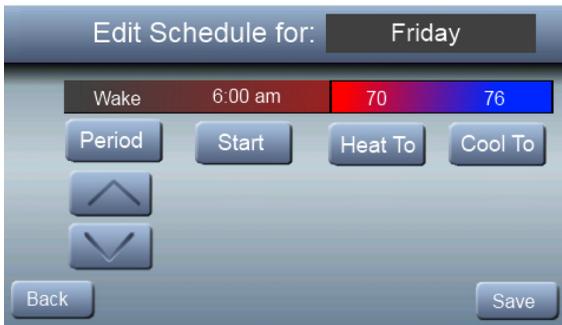
You can create a different schedule for each day of the week.

1. Press **SETUP**, then **SCHEDULE**



2. Press **▲** under "Each Day"; then press **EDIT** to modify the schedule for that day. To modify a different day, press one of the day buttons on the bottom to scroll through the week to find the day you wish to change.





3. Press **PERIOD**; then use the ▲ or ▼ to select the period to change.
4. Press **START**; then use the ▲ or ▼ to change the time the corresponding period starts.
5. Press **HEAT TO**; then use the ▲ or ▼ to change the desired heating temperature for that period.
6. Press **COOL TO**; then use the ▲ or ▼ to change the desired cooling temperature for that period.
7. Press **SAVE** to save your new schedule and exit (or press **CANCEL** to exit without saving.)

NOTE: For Zoning

Follow Steps 1 – 7 for each individual Zone using the ▲ / ▼ arrows to select the desired zone.

Program Schedule for:

Friday Zone: Zone1

Wake	6:00 am - 8:00 am	70	76
Day	8:00 am - 3:00 pm	66	72
Eve	3:00 pm - 11:00 pm	70	74
Sleep	11:00 pm - 6:00 am	68	76

Edit Schedule for: Zone1 EACH DAY

Wake	6:00 am	70	76
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Humidity Settings

The Observer® Control allows you to manually set your humidity set points to manage your comfort levels.

If you have a humidifier installed, press **SETUP**; then press **HUMIDITY**. Under HUMIDIFICATION, use the ▲ and ▼ buttons to select your desired humidity level during heating mode. Press **DONE** to return to normal operation.



During warm weather periods, under DEHUMIDIFICATION, use the ▲ and ▼ buttons to select your desired humidity level during cooling mode. Press **DONE** to return to normal operation.

Dealer Info



Upon installation of your Observer® Control, your Servicing Dealer has the option of inserting their contact information into the wall control for your convenience. This information can include the Servicing Dealers name, phone number and website (if applicable). Press **Dealer Info** from the Basic Setup screen to view the contact information for your Servicing Dealer.

NOTE: If your dealer has provided their email address, you will have the option of sending email Notifications, directly from the Observer® wall control to your dealer. See the Quick Start guide provided with your Observer wall control for more information on registering your Observer wall control for remote access.



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To access the Lockout, Sounds and Reminders options, click in the MORE arrow and go to the second screen of Basic Setup options.



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Keypad Lock

You can lock the Observer® Control to help avoid inadvertent changes to your settings.



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Press **SETUP**; press **MORE**, then press **LOCKOUT**. To enable the lockout feature, press the **ON** button.



After you have enabled the lockout feature, please select a 4-digit code to be used to unlock the Observer® Control. Press **DONE** to return to normal operation.

Once the lockout feature is active, to unlock the screen press anywhere on the screen to be prompted to enter your 4-digit code. If your 4-digit code is entered successfully, the screen will show a validation message and return you to the main screen. If your code is incorrect, the screen will show an unsuccessful message and return you to the main screen to try again.

NOTE: In the event the lock out code is lost, the current year can be used as the code.

Sounds



Press **Sounds** from the Basic Setup screen to adjust the Volume and Sound Type heard from your Observer® control.

Volume options include: OFF, LOW, MED or HIGH

Sound Types include: Beep, Click and Click 2 (Double Click)

NOTE: When OFF is selected, the sound features of the Observer® Control are disabled

Reminders

Reminder messages alert you to when it is time to replace your filter. The reminders will be sent after the number of hours of system operation shown on this screen. For example, if you have your fan set for continuous operation (Fan Mode = On, Low, Med, or High) the fan will operate for approximately 720 hours per month. When your alert appears on the screen, press the **REMINDER** button. After you have replaced your filter hit the **RESET** button to start the clock on your next replacement. After you press **RESET**, press **DONE** to return to normal operation.



Zoning Features

When installed as a complete Observer® Zoning System, the Observer Control can be installed as a Master Control with up to five additional sensors. Sensor options can include any combination of the following:



Room Sensor

OR



Zone Sensor

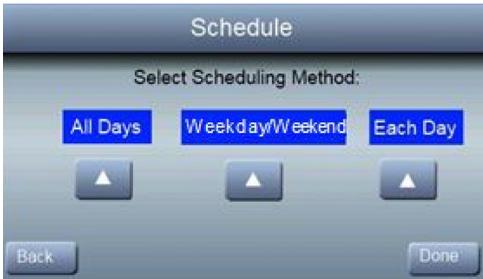
When installed as a complete Zoning System, the Master Zone Control will serve as the central location for controlling the temperature and schedule for each individual zone.

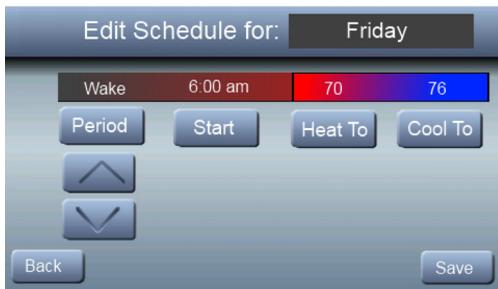
From the **Home Screen**, you can override the program schedule by using the Hold, Heat To or Cool To settings for each individual zone which can be accessed by pressing the Zone Name button located in the bottom left hand section of the screen.

NOTE: See **Adjusting Temperature (Temporary Hold)** and **Hold Current Temperature** sections for complete details.



From the **Setup** menu, you can program a comfort schedule for each individual zone by using the ▲/ ▼ button to select the corresponding zone.





NOTE: See the **Schedule** section for complete details.

When the Observer® Control is installed as a **Zone Sensor**, the overall functionality of the control and screens available will be different from those found on the Master Zone Control.

From each individual Zone Sensor, you can override the program schedule by using the Hold, Heat To or Cool To settings for each zone which can be accessed by pressing the Zone Name button located in the bottom left hand section of the Home Screen.

NOTE: See **Adjusting Temperature (Temporary Hold)** and **Hold Current Temperature** sections for complete details.



The basic information displayed on the Home Screen of the **Zone Sensor** consists of the following:

- .. **Current schedule period:** WAKE, DAY, EVE, or SLEEP
 - ◇ **NOTE:** Use the Master Control to setup Schedules for each individual Zone
 - .. **Date and time**
 - ◇ **NOTE:** Date and Time information is supplied to the Zone Sensor from the Master Control
- Room temperature** (Zone specific)
Actual Outdoor temperature (System specific)
System Mode: OFF, HEAT, COOL, AUTO or EMHT (if applicable)
 - ◇ **NOTE:** Any changes to the System Mode from the Zone Sensor are global in nature and will impact the entire system.

Fan mode: AUTO, LOW, MED or HIGH

- ◇ **NOTE:** Any changes to the System Mode from the Zone Sensor are global in nature and will impact the entire system.

Hold (Zone specific)

Heat To setting (Zone specific)

Cool To settings (Zone specific)

Setup options available for the **Zone Sensor** consist of the following:



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Screen/Zones: Under this Basic Setup Screen, you will have the option to Adjust Brightness, Clean Screen or change the Zone Name.



Sounds: Under this menu selection, you will have the option to adjust the Volume and Sound Type heard from the individual Zone Sensor.



Humidity: From this menu selection, you will have the option to adjust the Humidity settings for the entire system.

NOTE: Any changes to the Humidity settings from the Zone Sensor are system specific and will be applied to all zones.

NOTE: The main wall control has the only humidity sensor in the system. Ensure that it has been installed in an area where it can properly sense humidity.



Version

Selecting this menu option will display the Model Number, Serial Number, and Software version for the individual Zone Sensor.



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For example only. Actual entries will vary.

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Software Updates

We will periodically issue software updates for the Observer® Communicating Wall Control. Updates are usually made to support new HVAC equipment that are added to our product line; so you will likely not need them, unless you upgrade your comfort system. Ask your dealer if a particular software update applies to your system, and ask him to update your wall control for you, if required. Software updates should only be done by qualified technicians, since part of the update process is to verify proper system configuration settings.

NOTE: The Downloads page of the www.MyObserverComfort.com web page also includes the latest manuals for the Observer wall control.

Setting Up Remote Access and Wi-Fi® Connection

The Observer® communicating wall control, model TSTAT0201CW, can connect through an in-home Wi-Fi® network to connect to the Internet. If the in-home Wi-Fi network or router is found to be incompatible with the Observer wall control, an Observer Wireless Access Point (NAXA00101WA) or any other compatible wireless router can be installed to establish Wi-Fi connectivity. See the Installation Instructions for details. Wi-Fi range extenders may also be used if the wall control is located a significant distance away from the Wi-Fi access point or router. More information may be found at the www.MyObserverComfort.com website.

Please call the helpdesk (available 8:00 AM - 5:00 PM ET, M-F) at 877-591-8908 if you need help with Wi-Fi set-up and connection to the MyObserverComfort server.

The ability to remotely access and adjust the settings of the Observer® wall control with the MyObserverComfort web and mobile applications is dependent on the compatibility of the user's computer/network or mobile device, the Observer wall control, and/or the MyObserverComfort web server with, and the availability of, the user's Internet service provider or mobile device carrier service. International Comfort Products makes no

representations or warranties, express or implied, including, to the extent permitted by applicable law, any implied warranty of merchantability or fitness for a particular purpose or use, about the compatibility of the user's computer/network, or mobile device, with the Observer wall control, and/or the MyObserverComfort web server, with, and the availability of, the user's Internet service provider or mobile device carrier service, or that the ability to remotely access and adjust the settings of the Observer wall control will not be negatively affected by the network-related modifications, upgrades, or similar activity of the user's Internet service provider or mobile device carrier service.

To establish Wi-Fi® connectivity to the Observer® wall control using an in-home router or wireless access point, the home network wireless access point SSID and password/passkey must be known for set-up.



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A14520

- Select the WIRELESS button from the Basic Setup screen



A14521

- Make sure the Wi-Fi® connection is enabled, by touching ENABLED. Select Setup Wireless Connection to scan for a wireless network.
- You do not need to select the Manually Enter Access Point, or Advanced Settings, unless you have experience setting up Wi-Fi® networks.
 - Use the Manually Enter Access Point option if your SSID is hidden, or is otherwise secured.
 - Follow the on-screen prompts as required.
 - Please call the support desk (available 8:00 AM - 5:00 PM ET, M-F) at 877-591-8908 if you need help with Wi-Fi® set-up.
- Touch Setup Wireless Connection to begin the process.



A14522

- Next, touch Scan for available access points. The following screen may pop-up momentarily and then the available wireless networks will be displayed. If no wireless networks are found, an information screen may be displayed allowing the user to manually enter the wireless information.



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- On the next screen look for the desired SSID of the router/access point. Press the arrow at the bottom right to see three more SSIDs.
- Press the Select button for the desired SSID. Then press the arrow in the bottom right.



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- The security settings, if any, for the selected network will be displayed. Usually auto-detect will correctly identify the mode of security used. A secured network will prompt for the Wi-Fi® security key.
- If the incorrect security mode appears on the Auto Detect button, press the Auto-Detect button and the Select Security selection screen will appear.



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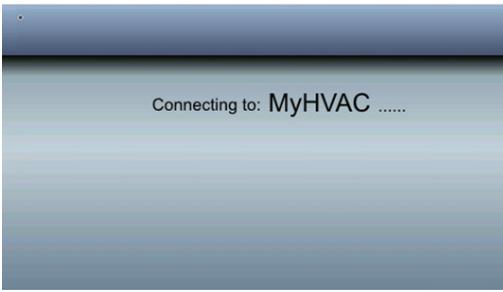
- Select the proper security mode.

- Pressing the Back button will return to the previous screen, with the updated security mode.

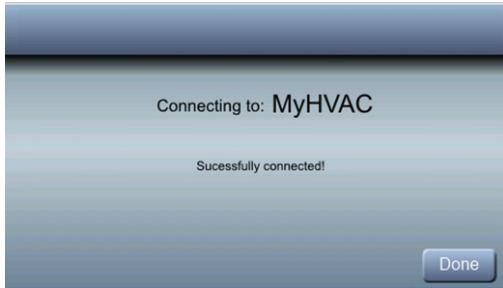


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- If a Wi-Fi® security key is shown as on the Security Settings screen, then select the Wireless Security Key bar and enter the security key.
 - Touch in the security key area, and the keyboard will appear.
 - Use the on-screen keyboard to enter the Wi-Fi security key, and then touch the arrow in the bottom right corner.
 - The progress screen will appear.



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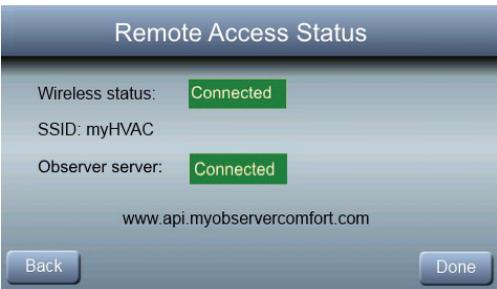
A14527

- The control will inform you if the connection is successful. If so, touch DONE.



A14528

- If the connection is unsuccessful, verify that the proper information has been entered before you touch **RETRY**. The control will attempt to connect with the information previously entered.
- To start the process from the beginning, press **Done**.



A14529

- When the connection to the MyObserverComfort web server (www.MyObserverComfort.com) has been established, the status screen will show Connected for both Wi-Fi® and the server.
 - Allow 15 minutes for the wall control to connect to the server.
 - Please call the help desk (available M-F 8am - 5pm ET) at 877-591-8908 if you need help with Wi-Fi® set-up and connection to the MyObserver-Comfort server.

Registering Your Observer® Wall Control With Wi-Fi® Capability on the Internet

After the control has connected to the network, go to the www.MyObserverComfort.com website to register the Observer® communicating wall control online. This requires the MAC address and serial number of the Observer wall control. To find the serial number and MAC address of the Observer wall control, click on Menu, choose Wireless, and then choose Register.

See the Quick Start Guide included with the product for more information. The Quick Start Guide is also available on the Downloads page of www.MyObserverComfort.com.



A14530

This screen will provide the information needed on the MyObserverComfort website (www.MyObserverComfort.com) during registration. Many people take a picture of this screen with their smartphone for easy reference when registering.



A14531

For example only. Actual entries will vary.

Click Done once you have copied this information.

Instructions for registering your wall control may be found on the Quick Start guide shipped with the product, or on the www.MyObserverComfort.com website. If you have any issues with connection or registration, please contact your servicing dealer or contact the help desk (available M-F, 8am - 5pm ET) at 877-591-8908.

After you have registered your device, you will be able to manage your account from the www.MyObserverComfort.com website, download remote access apps to your smart device, and set up email notifications. Instructions for this may be found on the www.MyObserverComfort.com website. If you need assistance, feel free to call the help desk (available M-F, 8am - 5pm ET) at 877-591-8908.



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