Observer ®

C O M M U N I C A T I N G   S Y S T E M

Communicating Wall Control Owner's Manual
TSTAT0101SC

Table of Contents

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; 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)

Actual Outdoor temperature

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

Fan mode: AUTO, LOW, MED or HIGH

Heat To setting (Zone specific if applicable)

Cool To settings (Zone specific if applicable)

Set Day and Time

To set the current time and date, press **SETUP** from the HOME Screen; then press **TIME/DATE**.

Set Date / Time

DATE

`12` / `25` / `11`

TIME

`3` : `33` `PM`

TIME FORMAT

`12 HR` `24 HR`

D.S.T

`ON` `OFF`

Back

Done

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.
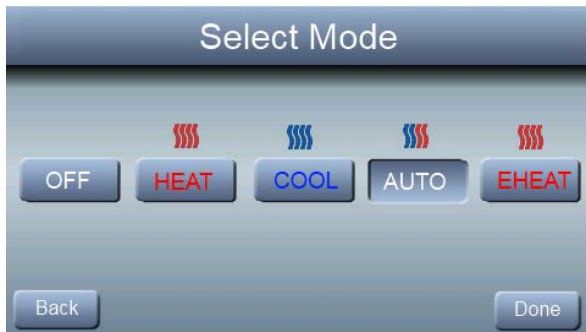
Off: Heating and cooling systems are off

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)

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.

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 temperate 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 prgogram 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**.

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.

Screen/Zones

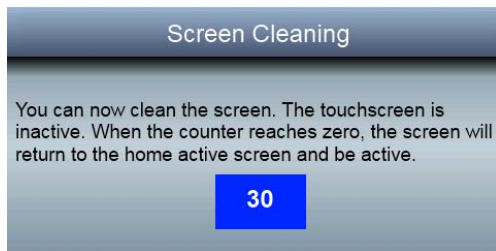From the **BASIC SETUP** screen; press **SCREEN/ZONES**.

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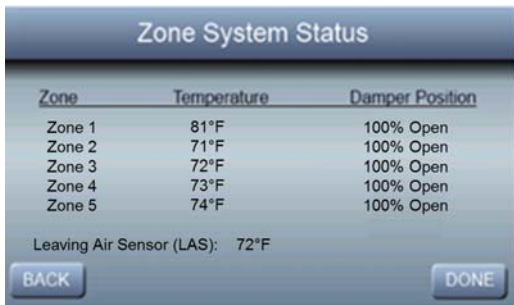
Use the ▲ and ▼ buttons to select your desired screen brightness. Press **DONE** to return to normal operation.

Set Screen Brightness

85 %

Done

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.

Screen Cleaning

You can now clean the screen. The touchscreen is inactive. When the counter reaches zero, the screen will return to the home active screen and be active.

30

Zone Status

Zone System Status		
Zone	Temperature	Damper Position
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.

Zone Names

Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
Zone 6

Press a Zone Name to edit. Eight Characters are allowed for each zone name.

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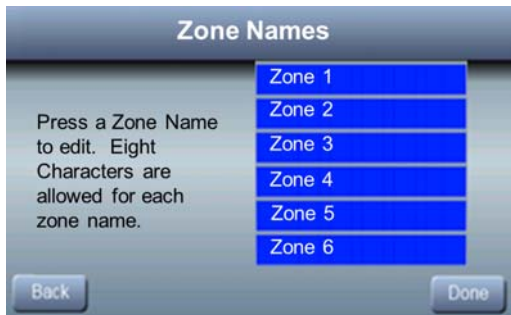
Note: In order to activate the Key Board, press each individual Zone name. Zone names can be up to eight characters in length.

Enter Zone Name

Zone 2

Bksp Up
L Dn R

q w e r t y u i o p
ABC a s d f g h j k l 123
Space z x c v b n m , .

Back   Done

Press **Done** to save your changes.

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. 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.

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 on schedule for all seven days in the week.

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

Basic Setup

| Screen/Zones | Time/Date | Sounds | Reminders |
| Schedule | Humidity | Dealer Info | Lockout |

Back   Version

2. Press ▲ under "All Days", then press **EDIT**.
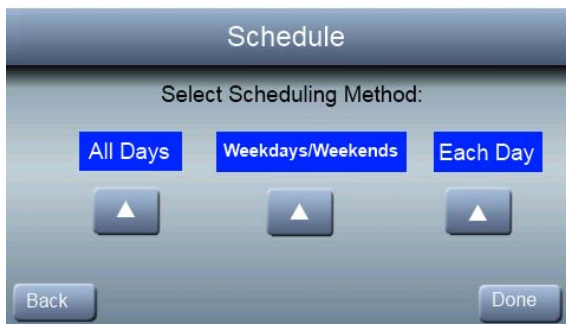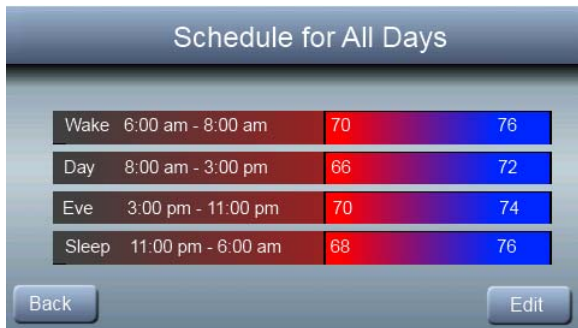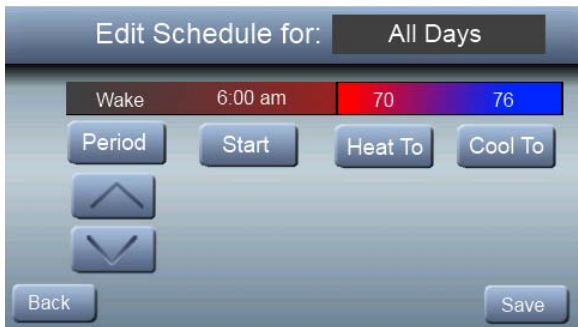
Schedule

Select Scheduling Method:

| All Days | Weekdays/Weekends | Each Day |
| ▲ | ▲ | ▲ |

Back   Done

Schedule for All Days

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

Back   Edit

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

Edit Schedule for: All Days

Wake	6:00 am	70	76

Period   Start   Heat To   Cool To

Back   Save

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 heating temperature for that period.

7. Press **SAVE** to save your new schedule and exit (or press **CANCEL** to exit without saving.)

NOTE: For Zoning

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

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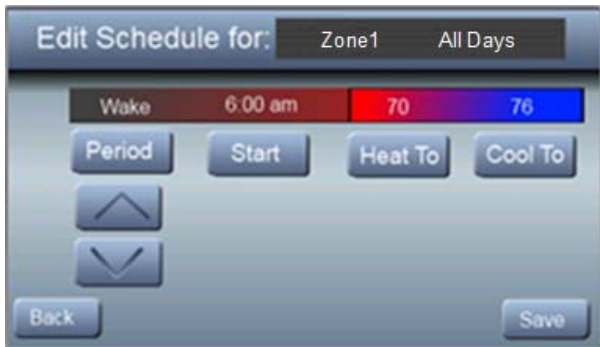
Follow Steps 1 – 7 for each individual Zone using the ▲ / ▼ arrows to select the desired zone.

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.

Schedule

Select Scheduling Method:

All Days	Weekdays/Weekends	Each Day
▲	▲	▲

Back   Done

Weekday/Weekend Schedule

Weekday

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

Back   Weekend   Edit

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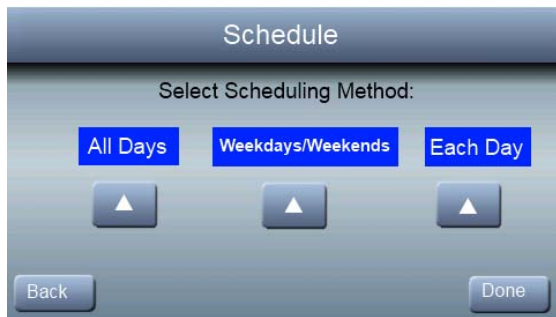
2. Press ▲ under "Each Day"; then press **EDIT** to modify the schedule for that day. To modify a different day, press one of the day buttons on the bottom to scroll through the week to find the day you wish to change.

Program Schedule for:

Friday

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

Back Thursday Saturday Edit

Edit Schedule for: Friday

| Wake | 6:00 am | 70 | 76 |

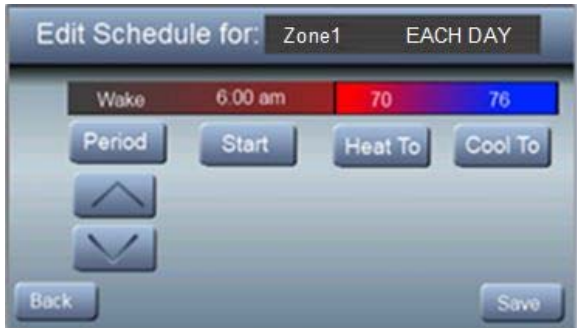Period Start Heat To Cool To

Back Save

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 heating 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

Back   Edit

Edit Schedule for: Zone1   EACH DAY

| Wake | 6:00 am | 70 | 76 |

Period   Start   Heat To   Cool To

Back   Save

Humidity Settings

The Observer Control allows you to manually set your humidity set points to me 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 uploading their contact information to 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.

Keypad Lock

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

Press **SETUP**; 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.

Model Number, Serial Number, and Software Version

Press "Version" on The Basic Setup screen.

Screen will display the Model Number, Serial Number, and Software version.

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:

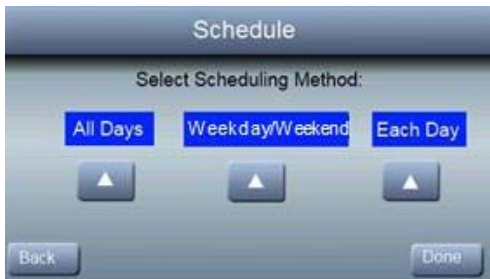Room Sensor   OR   Zone Sensor

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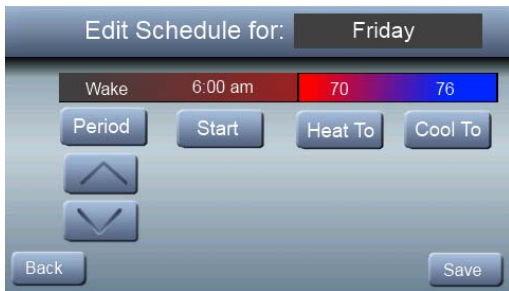
From the **Home Screen**, you can override the program schedule by using the Hold, Heat To or Cool To settings for each individual zone which can be accessed by pressing the Zone Name button located in the bottom left hand section of the screen.

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.

Edit Schedule for: Friday

Wake	6:00 am	70	76

Period	Start	Heat To	Cool To

Back   Save

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

Back   Edit

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 Senor 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:

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.