

Model TSTATG4272GT

RESIDENTIAL

Goodman®

Air Conditioning & Heating

High-Resolution, Full Color
TouchScreen Display
Digital Thermostat **with Humidity Control**



Compatible with Wi-Fi accessories



Owner's Manual
and Installation Instructions

Thank goodness for Goodman.™

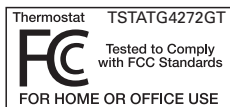


CAUTION

Follow the Installation Instructions before proceeding. Set the thermostat mode to “OFF” prior to changing settings in setup or restoring Factory Defaults.

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.

This color touchscreen has the ability to receive updates to its firmware. Periodically firmware updates are released by the manufacturer to add features and/or performance enhancements. This manual was produced reflecting the most current firmware/feature set at the time of publication, firmware rev. 3.04. Firmware releases after rev. 3.04 may not be adequately depicted in this manual. Please refer to the appropriate website or contact your place of purchase to learn about changes to the thermostat after firmware release 3.04.



Glossary of Terms

Auto-Changeover: A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.

Cool Setpoint: The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).

Deadband: The number of degrees the thermostat will wait, once a setpoint has been reached, before energizing heating or cooling.

Differential: The forced temperature difference between the *heat setpoint* and the *cool setpoint*.

Heat Setpoint: The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).

Icon: The word or symbol that appears on the thermostat display.

Mode: The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).

Non-Programmable Thermostat: A thermostat that does not have the capability of running *Time Period Programming*.

Programmable Thermostat: A thermostat that has the capability of running *Time Period Programming*.

Temperature Swing: *Same as Deadband.*

Time Period Programming: A program that allows the thermostat to automatically adjust the *heat setpoint* and/or the *cool setpoint* based on the time of the day. *Same as Schedule.*

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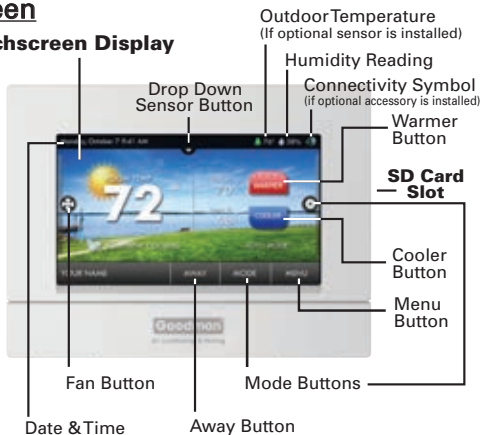
Get To Know Your Thermostat

Home Screen

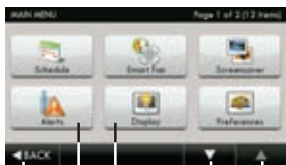
Backlit Color Touchscreen Display

Connectivity Symbol Table

	Not connected to Wi-Fi
	Connected to local access point w/IP address without Skyport access
	Connected to local access point w/IP address, but not yet connected to Skyport
	Connected to Skyport
No Wi-Fi Key detected	



Main Menu Screen

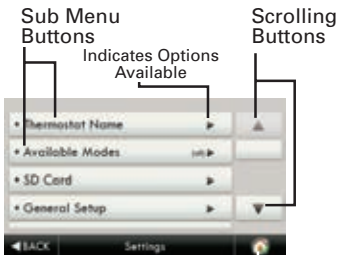


Back Button

Menu Buttons

Scrolling Buttons

Sub Menu Screen



Home Button

Get To Know Your Thermostat

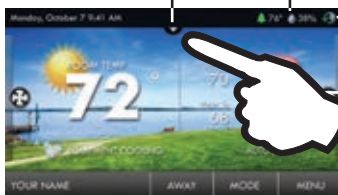
Dropdown Dashboard

The Dropdown Dashboard displays temperature, humidity, and other readings. It will also show the high and low readings of the day.

Drop Down Dashboard Button

Humidity Reading

The Humidity Icon will turn from Blue to Red during an active humidification call.

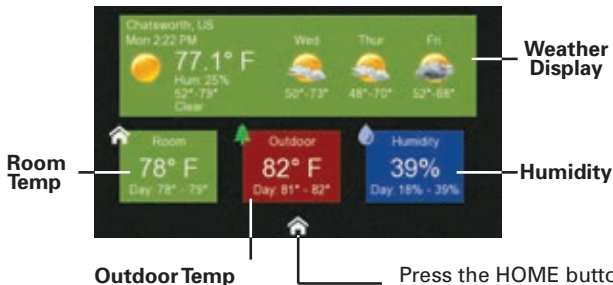


Wi-Fi Connection Icon

(The Skyport Wi-Fi Key is required for wi-fi connections. Model # TSTATGAC-WF)

Dropdown Dashboard

(The contents of your Dashboard may vary)



Press the HOME button to return to the Home Screen

Get To Know Your Thermostat

Care and Use of Your Thermostat

Pencils, pens and other sharp objects should never be used on your touch screen thermostat; these may damage your touchscreen. Only use your finger tip to press the touchscreen buttons.



Use a soft, damp cloth to clean the screen.

DO NOT USE ABRASIVE CLEANERS OR CLEANERS THAT CONTAIN SOLVENTS. DO NOT SPRAY ANYTHING DIRECTLY ONTO THE THERMOSTAT.

Quick Start - Temperature, Modes & Fan

Selecting Your Desired Temperature and Mode

Press  or  to adjust temperature

The Heat or Cool Setpoint is the temperature the room has to reach before heating or cooling will turn off.

(Without regard to deadband) *page 38*



Press  or the MODE Icon 

HEAT will allow only operation of the heating system.

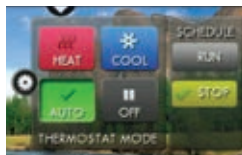
COOL will allow only operation of the cooling system.

AUTO will allow operation of the heating and cooling systems.

OFF - heating and cooling systems are turned off.

AUTO-CHANGEOVER MODE - Pressing the WARMER or COOLER buttons in Auto mode will adjust both the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL mode to adjust the cool setpoint, then return to AUTO mode.

HEAT OR COOL MODE - Pressing the WARMER or COOLER buttons in Heat or Cool mode will adjust only the heat or cool setpoints.

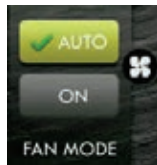


Using the Fan Button

Press FAN Icon 

FAN ON fan runs constantly even in OFF Mode.

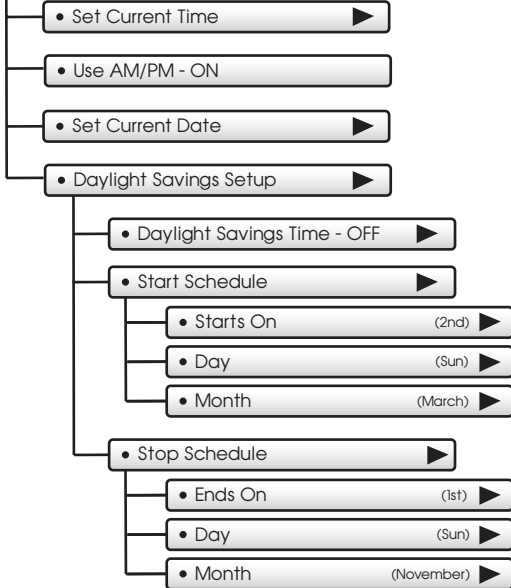
FAN AUTO fan only runs with a heating or cooling demand.



Quick Start - Set Time & Date



NOTE: When the thermostat is connected to Skyport; the Time & Date are automatically synchronized to the Skyport Cloud, including automatic Daylight Savings adjustments.



Quick Start - Set Time & Date

Setting the Time

Press **MENU** then  to scroll down.

Press



NOTE: If the Skyport Wi-Fi Key is installed on the thermostat, the Time and Date settings will not be accessible.

• Set Current Time (12:00 AM) ▶

Press



Press

hr +

and

min +

hr -

min -

to set the current time.

Press  when finished.

Choose

• Use AM/PM - ON



For 12 hour AM/PM clock



• Use AM/PM - OFF







For 24 hour clock

Press  when finished.


Quick Start - Set Time & Date

Setting the Date

• Set Current Date 6/1/2013  **Press** 

Press  **or**  **to set the current month and year.**

Press the day on the calendar



Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7



Press  **when finished.**

• Daylight Savings Setup 

Turn Daylight Savings Time on or off.

• Daylight Savings Time - OFF

• Daylight Savings Time - ON  

Adjust when Daylight Savings Time begins.

• Start Schedule

Adjust when Daylight Savings Time ends.

• Starts On (2nd) 

• Day (Sun) 

• Month (March) 

Press 

after making a change to a selection.

• Stop Schedule 

• Ends On (1st) 

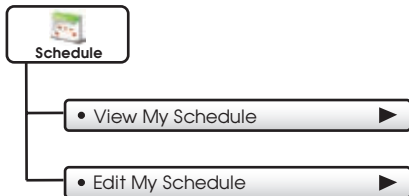
• Day (Sun) 

• Month (November) 

Press 

or the Home button when finished.

Main Menu Buttons - Schedule



Main Menu Buttons - Schedule



Schedule

This thermostat features up to four programmable time periods per 24 hour day: Morning, Day, Evening, and Night. The start time for each time period is adjustable. The stop time for each time period is the start time for the next period.

• View My Schedule ▶

Press a day of the week to view its settings. This may be repeated for each day.



• Edit My Schedule ▶

Press and select days to program

Select individual days

or

Select groups of days

Then press **NEXT**



Continued ▶

Main Menu Buttons - Schedule

• Edit My Schedule



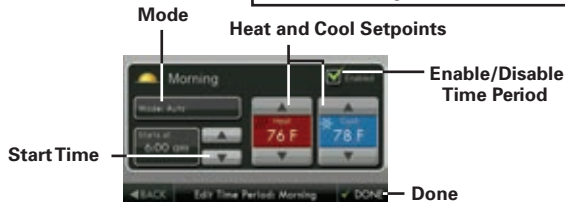
(Continued)

Press and select a Time Period (Morning, Day, Evening, or Night) to edit.



Adjust Mode, Start Time, and Heat and Cool Setpoints to desired settings. The Time Period may also be Enabled or Disabled. Un-check the Enabled box for Time Periods you don't want to use. Press **DONE** when finished.

TIP: For a simpler schedule that only uses 2 time periods, un-check Enabled for Day and Evening Time Periods.



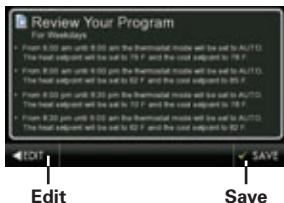
When you are finished editing the four time periods press

NEXT

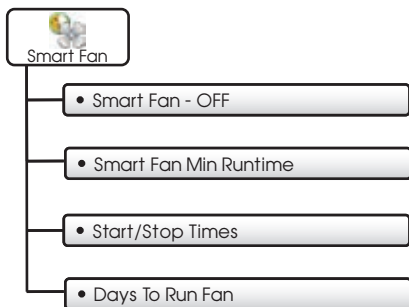
Review your program.

Press **SAVE** to keep your program.

Press **EDIT** to make further changes.



Main Menu Buttons - Smart Fan



Main Menu Buttons - Smart Fan



Smart Fan

The fan may be programmed to turn on automatically for a specified period during the day.

Press to turn fan schedule on or off

• Smart Fan - OFF

• Smart Fan - ON



• Smart Fan Min Runtime

(0m) ►

Set the minimum number of minutes the fan will run from the top of each hour. Set runtime to 60 minutes to be on continuously from StartTime to StopTime. (5 - 60 mins.)

• Start/Stop Times

(7:00AM - 9:00PM) ►

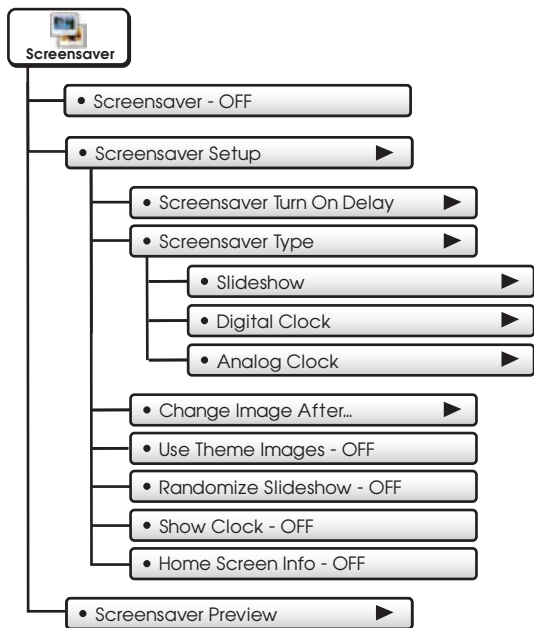
Set when the Smart Fan schedule will start and stop. For example, you may not want Smart Fan to run during sleeping hours.

• Days To Run Fan



Choose which days of the week Smart Fan will run.

Main Menu Buttons - Screensaver



Main Menu Buttons - Screensaver



Screensaver

The Screensaver allows you to create custom slideshows.

• Screensaver - OFF

• Screensaver - ON



• Screensaver Setup ▶

• Screensaver Turn On Delay (5m) ▶

How long after a button press for the Screensaver to appear. 1, 3, 5, or 30 minutes

• Screensaver Type (Slideshow) ▶

Slideshow, Digital Clock, Analog Clock

• Change Image After... ▶

15, 30 seconds - 1, 5, or 10 minutes

• Use Theme Images - OFF ▶

Slideshow uses included Theme Images. Off or On

• Randomize Slideshow - OFF ▶

Shuffles slideshow photos in random order

• Show Clock - OFF ▶

Shows the time and date every 5 photos. Off or On

• Home Screen Info - OFF ▶

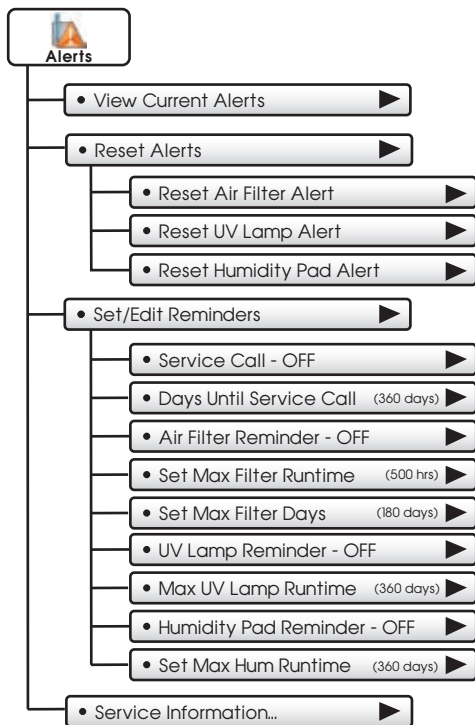
Shows the mode, setpoints, and temperature after every 10 photos. Off or On.

• Screensaver Preview ▶

Press this button to preview your screensaver operation before returning to the Home Screen.

After the preview, press anywhere on the screen to return to the sub menu.

Main Menu Buttons - Alerts



Main Menu Buttons - Alerts



Alerts

The alerts let you know when your system needs service.

• View Current Alerts ▶

View and reset current service alerts here.

Alerts appear on the bottom bar of the Home Screen. Press to view and reset current alerts.



• Reset Alerts ▶

Clear and reset current service alerts.

• Set/Edit Reminders ▶

Set service alert runtimes and turn reminders on or off.

• Service Call Reminder - OFF

• Days Until Service Call (360 days) ▶

• Air Filter Reminder - OFF

• Set Max Filter Runtime (500 hrs) ▶

• Set Max Filter Days (180 days) ▶

• UV Lamp Reminder - OFF

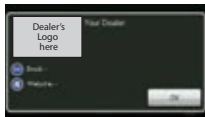
• Set Max UV Lamp Runtime (360 days)

• Humidity Pad Reminder - OFF

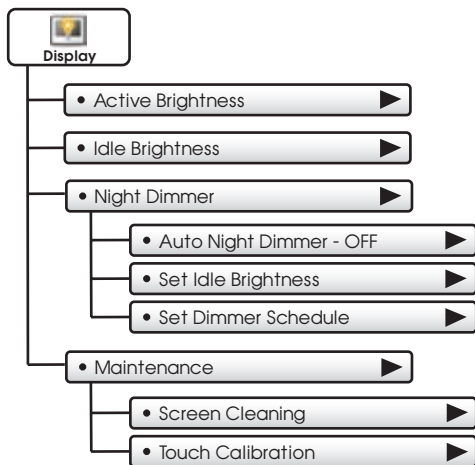
• Set Max Hum Runtime (360 days) ▶

• Service Information... ▶

View your service company's contact information.



Main Menu Buttons - Display



Main Menu Buttons - Display



Display

The display brightness options may be adjusted in this menu.

- Active Brightness (80%) ▶

You may select how bright the backlight is while the thermostat is active. The display is active for 3 minutes after last touch, it then goes Idle.

- Idle Brightness (30%) ▶

You may select how bright the backlight is while the thermostat is idle.

- Night Dimmer ▶

You may dim the brightness of the screen at night.

- Auto Night Dimmer - OFF

The screen can be set to dim automatically at night. Dimming the display can prolong the life of the backlight.

- Set Idle Brightness (20%) ▶

Set the screen brightness for the Night Dimmer. When Night Dimmer is On, the display will go idle 8 seconds after last touch.

- Set Dimmer Schedule ▶

Set the schedule for the Night Dimmer.

Main Menu Buttons - Display

• Maintenance ▶

Maintenance allows you to clean and calibrate the touch screen.

• Screen Cleaning ▶

Screen Cleaning Mode disables the touch feature for 15 seconds so the screen may be cleaned without altering any settings.

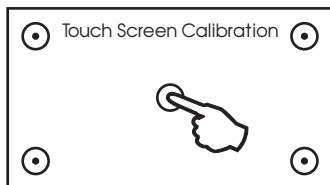


Use a soft cloth without solvents or abrasive cleaners

• Touch Calibration ▶

Under normal circumstances, the touchscreen should not need to be calibrated.

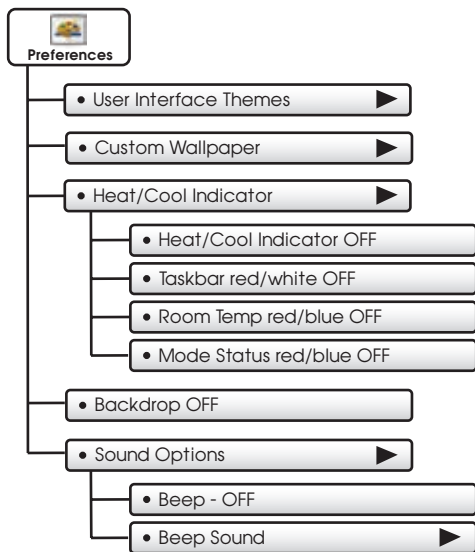
Touch the center of the targets as they appear on the screen.



Press **FINISH** when done.

When calibration is complete, the thermostat will automatically restart and return to the Home Screen.

Main Menu Buttons - Preferences



Main Menu Buttons - Preferences



Preferences

You may set the type of background that appears on the thermostat Home Screen.

• User Interface Themes (ocean) ▶

This thermostat has several high quality background themes to choose from.
NOTE: At 7 PM, the background will change to an evening scene and the moon will replace the sun. At 7 AM it will return to a daytime scene.

• Custom Wallpaper ▶

You may choose your own background image by selecting a photo that you have uploaded from an SD memory card.

• Heat/Cool Indicator ▶

You may choose an enhanced indicator of the current status of the HVAC equipment.

- Heat/Cool Indicator - ON/OFF
- Room Temp Red/Blue - ON/OFF
- Taskbar Red/White - ON/OFF
- Mode Status Red/Blue - ON/OFF

• Backdrop - OFF

The Backdrop makes numbers and words easier to read, and may be needed on certain background images.

• Sound Options ▶

- Beep - ON

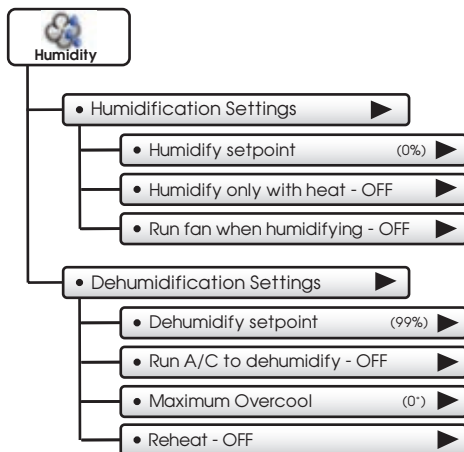


Turn the beep sound on or off.

- Beep Sound (Beep 1) ▶

Choose from different beep sounds.

Main Menu Buttons - Humidity



Main Menu Buttons - Humidity



The Humidity feature allows the thermostat to control a humidifier or use your air conditioner to dehumidify the space.

IMPORTANT: Aux Output Usage must be set for Hum or Dehum for these settings to take effect.

See: AUX Output Settings on page 41.

• Humidification Settings

• Humidify setpoint (0%) ▶

Adjust Humidify setpoint. (0% - 60%)

• Humidify only with heat - OFF ▶

When this step is ON, Humidify will only run with a demand for heat.

• Run fan when humidifying - OFF ▶

When this step is ON, the fan will run with a call for Humidification.

• Dehumidification Settings

• Dehumidify setpoint (99%) ▶

Adjust Dehumidify setpoint. (25% - 99%)

• Run A/C to dehumidify - OFF ▶

When this step is ON, the A/C system will be used for Dehumidification.

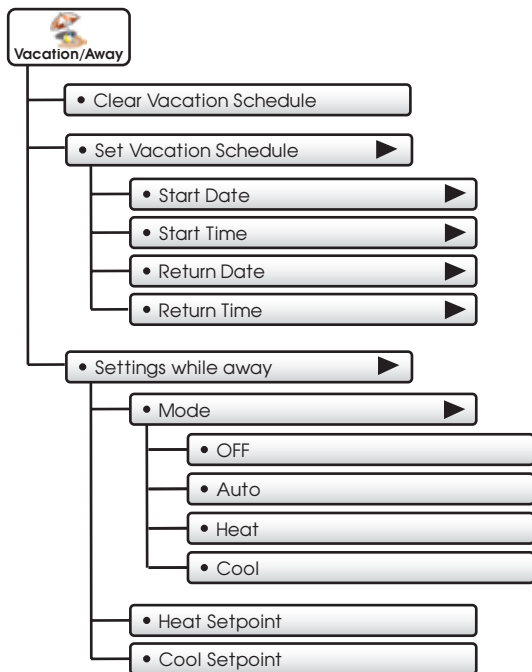
• Maximum Overcool (0°) ▶

This specifies how many degrees the A/C system will run past the cool setpoint to satisfy a demand for Dehumidification. (0 - 20 degrees F)

• Reheat - OFF ▶

This turns on electric strip heat during an A/C to dehumidify demand to help maintain desired room temperature. (Run A/C to dehumidify must be set to ON and the GAS ELEC Dip Switch must be set to ELEC - page 52 - to access this feature)

Main Menu Buttons - Vacation/Away



Main Menu Buttons - Vacation/Away



Vacation or pressing the AWAY button, will use temporary, energy saving settings without changing the regular schedule. Pressing the HOME button will return the thermostat to normal comfort settings.

• Clear Vacation Schedule

Removes the stored vacation schedule.

• Set Vacation Schedule

Set your Vacation Schedule.

• Start Date

Tue Sep 07 2010

Select the day Vacation Mode will start.

Then press **BACK**



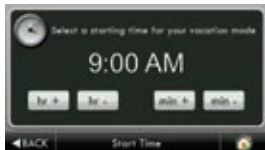
BACK

• Start Time

(9:00 AM)

Select the time Vacation Mode will start.

Then press **BACK**



Continued

Main Menu Buttons - Vacation/Away

• Schedule ▶

(Continued)

• Return Date

Tue Sep 21 2010 ▶

Select the day Vacation Mode will end.

Then press **◀ BACK**



• Return Time

(3:00 PM) ▶

Select the time Vacation Mode will end.

Then press **◀ BACK**



• Settings while away ▶

Select the desired Mode and setpoints to be used in Vacation/Away Mode.

• Mode

(Auto) ▶

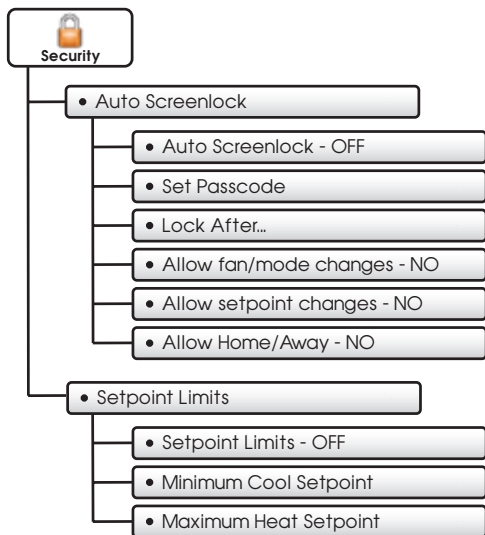
• Heat Setpoint

(50°) ▶

• Cool Setpoint

(85°) ▶

Main Menu Buttons - Security



Main Menu Buttons - Security



Security settings may be set to limit or prevent changes to your thermostat.

• Auto Screenlock

• Auto Screenlock - OFF

• Auto Screenlock - ON ✓

• Set Passcode

(code not set)

NOTE: Code must be set before Auto Screenlock can be turned on.

* If you forget your passcode, enter 6736 for access.

Use keypad to enter and confirm passcode.



When the thermostat is locked, the bottom bar of the display will show: **UNLOCK**



Press UNLOCK then enter passcode to access thermostat settings.

• Lock After...

(5 m)

Set the time the screen will automatically lock after the last button press.

• Allow fan/mode changes - NO

Choose to allow fan/mode changes when Auto Screenlock is on.

• Allow setpoint changes - NO

Choose to allow setpoint changes when Auto Screenlock is on.

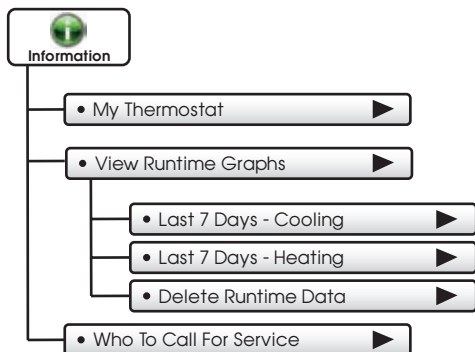
• Allow Home/Away - NO

Choose to allow use of the Home and Away button when Auto Screenlock is on.

• Setpoint Limits

Limits how high or low heating and cooling may be adjusted.

Main Menu Buttons - Information



Main Menu Buttons - Information



Information

This button contains valuable service and system runtime information.

• My Thermostat



View your thermostat dip switch settings, equipment status, runtimes, and other settings.

• View Runtime Graphs



Track your system's runtime/energy usage.

• Last 7 Days - Cooling



Press the information icon to learn more about each graph

• Last 7 Days - Heating



*NOTE: The runtime graphs are updated at 12:00 AM each day.

Press anywhere on the screen to return to the submenu.

• Delete Runtime Data

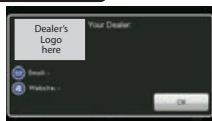


Press to delete your current equipment runtime information.

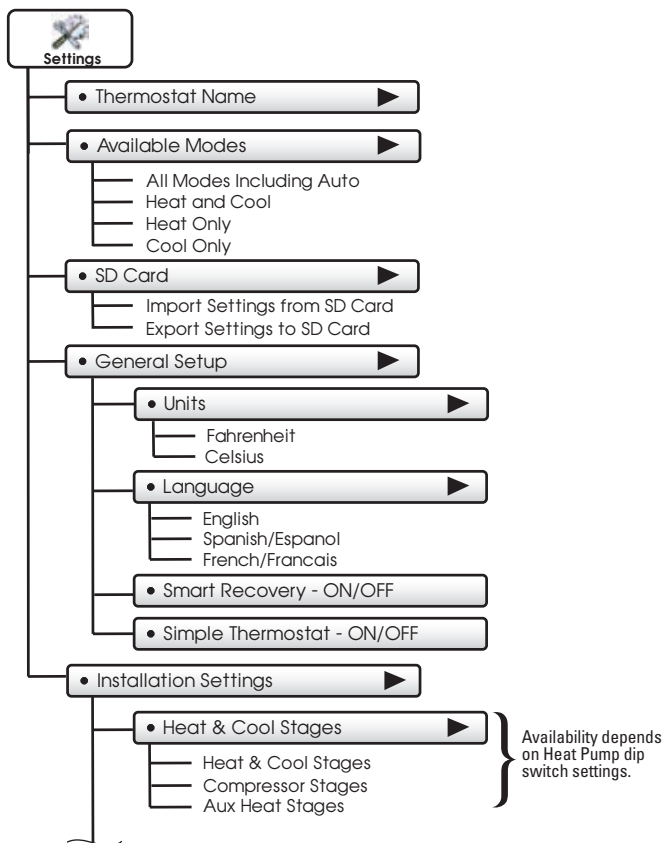
• Who To Call For Service



Your service company's contact information is displayed here.

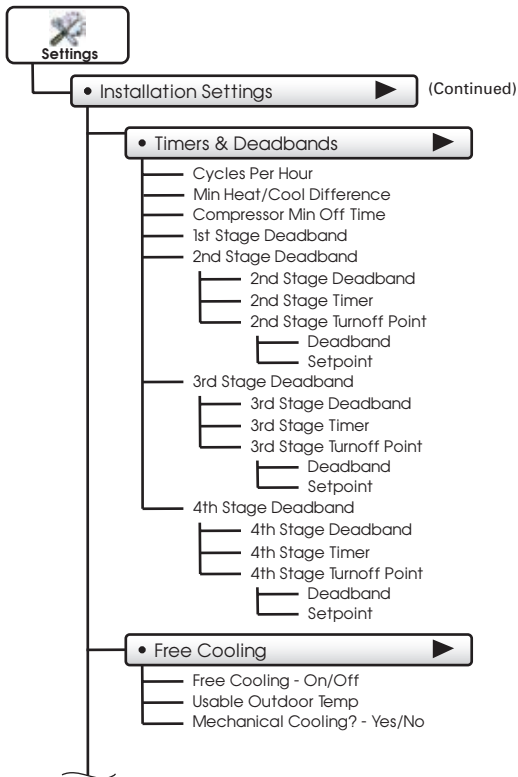


Main Menu Buttons - Settings



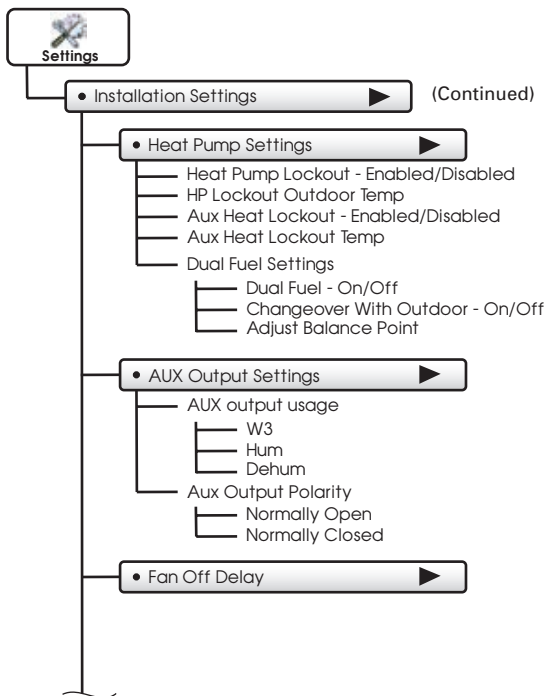
(Continued next page)

Main Menu Buttons - Settings



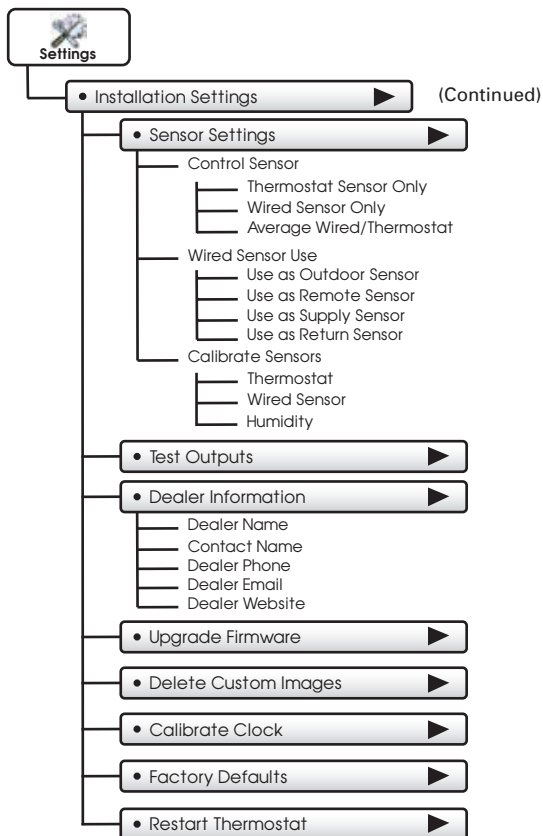
(Continued next page)

Main Menu Buttons - Settings



(Continued next page)

Main Menu Buttons - Settings



Main Menu Buttons - Settings



Thermostat heating and cooling options are found in this menu

• Thermostat Name ▶

Use keypad to name your thermostat. The name is displayed on the Home Screen.

(Up to 14 characters)

Name appears here



• Available Modes ▶

(all) ▶

Choose the desired modes the thermostat will use: Heat, Cool, Heat & Cool, or Auto (All). For example, if you only have a heater, choose Heat, and only Heat & Off modes will be available. This will simplify the operation for the user.

• SD Card ▶

Import and export files to and from the thermostat. See the **Touchscreen Assistant** instructions (page 47).

• Import Settings from SD Card ▶

Upload files from TouchScreen Assistant or another thermostat.

• Export Settings to SD Card ▶

Export files from one thermostat and import them into others.

***NOTE:** A 2GB SD card is recommended. To import and export files, the SD card must contain the same version of the firmware as the thermostat.

• General Setup ▶

• Units

(F) ▶

- Fahrenheit (F)
- Celsius (C)

Main Menu Buttons - Settings

• General Setup



(Continued)

• Language

(en)



- English
- Spanish/Español
- French/Français

• Smart Recovery - OFF

• Smart Recovery - ON



Smart Recovery turns on the heat before the Morning start time to bring the room temperature to the Morning setpoint at the start of the Morning time period. Please allow 4-8 days for Smart Recovery time to adjust. When used with a heat pump, electric strip heat will be disabled while Smart Recovery is active.

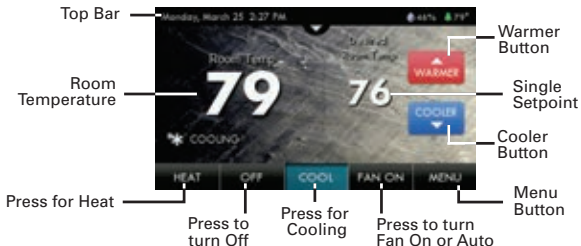
• Simple Thermostat - OFF

• Simple Thermostat - ON



Turn on Simple Thermostat for the most basic user interface.

When SimpleThermostat is on, alerts will appear in the top bar of the main screen. Press on the top yellow alert bar to view alerts.



Note: When using the SimpleThermostat Home Screen; the program schedule along with the **HOME** and **AWAY** features are unavailable.

Main Menu Buttons - Settings

• Installation Settings ▶

• Heat & Cool Stages (1h1c) ▶

• Heat & Cool Stages (1h1c) ▶

Up to 2 Stages Cooling and 4 stages Heating.

• Compressor Stages (1h1c) ▶

Up to 2 compressors.

• Aux Heat Stages (1h1c) ▶

0 to 2 stages of Aux Heating.

} Only available when
dip switch is set for
Heat Pump operation.

• Timers & Deadbands ▶

• Cycles Per Hour (6) ▶

At 6 cycles per hour, the HVAC unit will only be allowed to energize once every 10 minutes. The Cycles Per Hour limit may be overridden and reset by pressing the WARMER or COOLER buttons. (2, 3, 4, 5, 6, No Limit)

• Min Heat/Cool Difference (2°) ▶

The minimum gap between Heat and Cool setpoints. (0 - 6 deg. F)

• Compressor Min OFF Time (5m) ▶

None, 1 minute, or 5 minutes.

Main Menu Buttons - Settings

• Installation Settings



(Continued)

• Timers & Deadbands



(Continued)

The Deadband is the number of degrees or minutes that the thermostat waits before it initiates the stages of heating or cooling.

1st Stage Deadband Specifies the minimum temperature difference between the room temperature and the desired setpoint before the first stage of heating or cooling is allowed to turn on. For example, if the heat setpoint is 68° and the 1st Stage deadband is set to 2 degrees, the room temperature will need to drop to **66 degrees** before the heat turns on.

• 1st Stage Deadband

(2°)



(1 - 6 deg. F)

• 2nd Stage Deadband



• 2nd Stage Deadband

(2°)



Number of degrees past 1st stage before 2nd stage turns on. (0 - 10 deg. F)

• 2nd Stage Timer

(2mins)



Number of minutes past 1st stage before 2nd stage turns on. (0 - 60 mins.)
(The 2nd stage deadband must also be met)

• 2nd Stage Turnoff Point (Deadband)



Deadband or Setpoint.

• 3rd Stage Deadband



• 4th Stage Deadband



The 3rd and 4th stage deadband settings have the same adjustable steps as 2nd stage deadband.

Main Menu Buttons - Settings

• Installation Settings ▶

(Continued)

• Free Cooling ▶

Free Cooling is an energy saving way to boost the efficiency of your air conditioning system by bringing in cool air from the outside. The installation of a Free Cooling damper(s) and outdoor temperature sensor is required.

• Free Cooling - DISABLED

• Free Cooling - ENABLED ✓

Turns on Free Cooling.

• Usable Outdoor Temp (65°) ▶

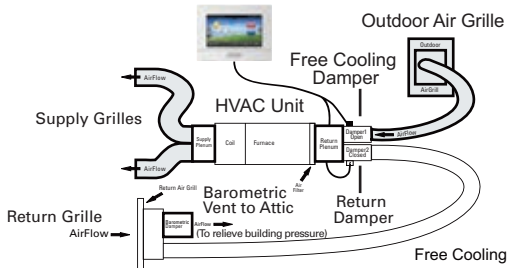
Free Cooling shuts off above this outdoor temperature. (40 - 80 degrees F)

• Mechanical Cooling? - NO

• Mechanical Cooling? - YES ✓

If you don't have a compressor, set Mechanical Cooling to "NO"; Y1 will then be used to control the Free Cooling Damper(s) and Y2 will be disabled. If set to "YES", mechanical (compressor) cooling will be controlled by the Y2 terminal. (See page 55 for wiring diagram)

Mechanical air conditioning is turned on with a 2nd stage demand for cooling and the Free Cooling, outdoor air damper is closed.



Main Menu Buttons - Settings

• Installation Settings ▶

(Continued)

• Heat Pump Settings ▶

(Only available when dip switch is set for Heat Pump operation.)

• Heat Pump Lockout - DISABLED ▶

• Heat Pump Lockout - ENABLED ✓

Turns on Heat Pump Lockout.

• HP Lockout Outdoor Temp (65°) ▶

Heat Pump will not run below this temp. (20 - 75 deg. F)

• Aux Heat Lockout - DISABLED ▶

• Aux Heat Lockout - ENABLED ✓

Turns on Aux Heat Lockout.

• Aux Heat Lockout Temp (65°) ▶

Aux Heat will not run above this temp. (20 - 75 deg. F) **GAS/EL** or **HP** dip switch must be set for **HP** and **GAS** or **ELEC** dip switch must be set for **ELEC**.

• Dual Fuel Settings ▶

This feature is for heat pump applications only.

This will only appear if the **GAS/EL** or **HP** dip switch is set for **HP** and the **GAS** or **ELEC** dip switch is set for **Gas**.

When Dual Fuel is ON, an outdoor temperature or, if Change With Outdoor is set to **OFF** a demand for third stage heat will be used to stop running the heat pump and switch to a fossil fuel source of heat. **NOTE:** Once the change to fossil fuel is made, the heat demand must finish with fossil fuel. Additional heat demands within 10 minutes will also use fossil fuel, regardless of outdoor temperature or stage demand.

- **Dual Fuel - ON/OFF**

- **Changeover With Outdoor - ON/OFF**

ON: Uses an outdoor sensor for changeover.

OFF: Uses a third stage heat demand for changeover.

- **Adjust Balance Point**

Choose the temperature for changeover to fossil fuel. (5 - 60 deg. F)

Main Menu Buttons - Settings

• Installation Settings ▶

(Continued)

• AUX Output Settings ▶

Allows the W3/AUX output to be used for Heating, Humidification, or Dehumidification.

• AUX output usage

(W3) ▶

IMPORTANT: Aux Output Usage must be set for Hum or Dehum before any settings will take effect in the Humidity Main Menu.



• AUX output polarity

(NO) ▶

The AUX Output polarity may be set for Normally Open or Normally Closed to accommodate different types of humidification and dehumidification equipment.

• Fan Off Delay

(0s) ▶

Runs the fan for a short time after Cooling or electric strip heat turns off to increase system efficiency. (0 - 120 Secs.)

Main Menu Buttons - Settings

• Installation Settings ▶ (Continued)

• Sensor Settings ▶

• Control Sensor (thermostat) ▶

When a remote sensor is connected to the thermostat, the user may choose which sensor source is used to measure room temperature.

- Thermostat Sensor only
- Remote Sensor only
- Average remote/thermostat

• Wired Sensor Use (remote) ▶

The wired sensor may be used as follows:

- Outdoor Sensor
- Remote Sensor
- Supply Sensor
- Return Sensor

• Calibrate Sensors (0°) ▶

The thermostat and wired sensor may be calibrated -7 to +7 degrees F.
The integral humidity sensor may be calibrated -20% to +20% RH

• Test Outputs ▶

The installer or service technician can use this feature to test the functions without any time delays of the thermostat.



With a 1st stage cooling call, Y1 and G are active

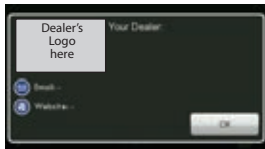
Main Menu Buttons - Settings

• Dealer Information ▶

A Dealer may enter their company contact information for the customer to use when they need service. This will appear when the “Who To Call For Service” button is pressed in the Information Menu.

Use the keyboard to enter your information.

- Dealer Name
 - Contact Name
 - Dealer Phone
 - Dealer Email
 - Dealer Website
- Please use TouchScreen Assistant to add Dealer's logo. (See Page 47)**



• Upgrade Firmware ▶

Press to upgrade the thermostat firmware. The SD Card must be in the thermostat SD Card reader and contain the valid firmware. If an error message appears, confirm with TouchScreen Assistant that firmware is up to date or simply try reinserting the SD card.

If you are connected to Skyport Wi-Fi and you receive an Alert that new firmware is available, simply press the Upgrade Firmware button to upgrade wirelessly.

Note: Occasionally an update that requires a large amount of data is not possible to do wirelessly. In this case an update using an SD card will be required.

• Delete Custom Images ▶

Press to delete the custom photos you uploaded to the thermostat.

• Calibrate Clock ▶

(0 mins) ▶

If needed, the clock may be calibrated up to -10 to +10 minutes per month.

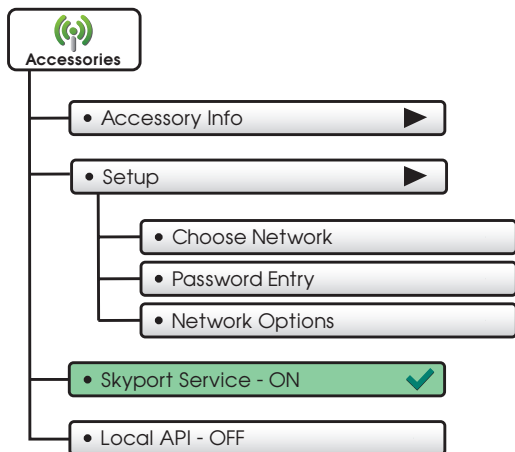
• Factory Defaults ▶

Press to reset the thermostat back to the factory settings.

• Restart Thermostat ▶

If needed, press here to restart the thermostat.

Main Menu Buttons - Accessories



Main Menu Buttons - Accessories

• Accessory Info

It is here that you will find helpful information regarding the connectivity status of your thermostat, including the thermostat's ID.



• Setup

Upon pressing setup, the thermostat will search for available local networks with which to connect. After identifying local access points, you will be prompted to choose a network, enter a password and other network options.



• Skyport Service - ON



Enable the thermostat to connect to the Skyport Cloud for remote monitoring and control features.

• Local API - OFF

Enabling the local API allows 3rd party software to interface with your thermostat, such as a home automation system.

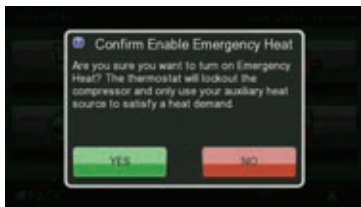
Main Menu Buttons - Emergency Heat



Emergency Heat

The Emergency Heat function is only available if your thermostat is set to control a Heat Pump.

To initiate the Emergency Heat feature, Press the Emergency Heat button. During Emergency Heat operation the thermostat will turn on the fan and auxiliary stages of heat when there is a demand for heat. The 1st stage of heating and all stages of cooling will be unavailable. To exit Emergency Heat, press the Emergency Heat button.



The TouchScreen Assistant

TouchScreen Assistant may be downloaded at no charge at:

www.goodmanthermostats.com/touchscreen/

Need New Image



Every time the user runs the TouchScreen Assistant software, it automatically connects to the Goodman thermostat website in the background and updates the software and firmware (the operating system for TouchScreen) at no cost.

The TouchScreen Assistant allows you to use your computer to:

- Upload photos for background and slideshow images
- Program a time period schedule
- Configure installation settings
- Upload dealer and service contact information and company logo
- Update thermostat firmware

The TouchScreen Assistant

Uploading Photos and Settings to your thermostat

When you are finished adding and editing photos and settings, click on Save to SD. When prompted, remove the SD card from the SD card reader on your computer.



Save to SD

*NOTE: A 2GB SD card is recommended.

At the thermostat:

Insert the SD card into the SD Card Slot.

Press

MENU

then



Next, press



SD Card Slot

Press

• SD Card



Then press

• Import Settings from SD Card



Select the items to import into your thermostat then press

NEXT



Your thermostat will automatically save your new photos and settings.

Installation Instructions

Remove and Replace the old thermostat

To install the thermostat properly, please follow these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.

- Assemble tools: Flat blade screwdriver, wire cutters and wire strippers.



- Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.
- Carefully unpack the thermostat. Save the screws, any brackets, and instructions.
- Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.
- Remove the cover of the old thermostat. If it does not come off easily, check for screws.
- Loosen the screws holding the thermostat base or subbase to the wall and lift away.
- Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.
- Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

Installation Instructions

Wire Connections

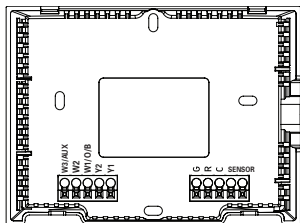
If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below or the wiring diagrams that follow.**

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1/O/B
Rh, R, M, Vr, A	Power	R
C	Common	C
O/B	Rev. Valve	W1/O/B*
W2	2nd Stage Heat	W2
Y2	2nd Stage Cooling	Y2
W3	3rd Stage Heat	W3/AUX
HUM	Humidification	W3/AUX
DEHUM	Dehumidification	W3/AUX
S1/OUT -	Temp Sensor	SENSOR
S2/OUT +	Temp Sensor	SENSOR

* O/B is used if your system is a Heat Pump.

Installation Instructions

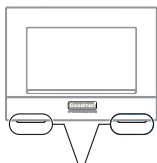
The TSTATG4272GT Thermostat Backplate



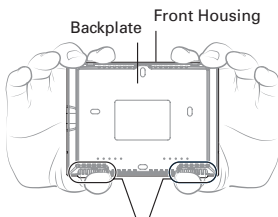
NOTE:

The backplate does not fully cover a full size vertical junction box. The TSTATGTAC-WP Touchscreen Wallplate or a single-gang, horizontally mounted junction box would be needed for that type of installation.

To remove the thermostat backplate:
Using the Finger Pull Areas, pull the front housing away from the backplate.



Look for these tabs to locate the pull areas



Pull out with thumbs in these areas

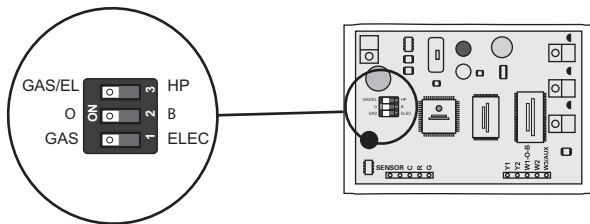
W3/AUX	3rd stage heat circuit/2nd stage aux heat/humidification/dehumidification
W2	2nd stage heat circuit/1st stage aux heat
W1/O/B	1st stage heat circuit/reversing valve
Y2	2nd stage compressor relay
Y1	1st stage compressor relay
G	fan relay
R	24 VAC return
C	24 VAC common
SENSOR	remote/outdoor/supply/return sensor connections

IMPORTANT: This thermostat requires both **R** (24 VAC Return) and **C** (24 VAC Common) be connected to the backplate terminals.

Installation Instructions

Explanation of Thermostat Dip Switches

Dip switches are located on the back of the thermostat



GAS/EL HP GAS/EL HP



This dip switch configures the thermostat to control a conventional gas/electric system or a heat pump. If your system is anything other than a heat pump, leave this switch set for **GAS/EL**.*

*For some commercial heat pumps, this switch may need to be set for **GAS/EL**. Consult the commercial heat pump literature.



When the **GAS/EL** or **HP** dip switch is configured for **HP**, this dip switch (**O** or **B**) must be set to control the appropriate reversing valve. If **O** is chosen, the **W1/O/B** terminal will energize in cooling. If **B** is chosen, the **W1/O/B** terminal will energize in heating.



1. When **GAS/EL** or **HP** is set for **GAS/EL**:
This switch (**GAS** or **ELEC**) controls how the thermostat will control the Fan (**G**) terminal in heating mode. When **GAS** is chosen, the thermostat will not energize the Fan (**G**) terminal in heating. When **ELEC** is chosen the thermostat will energize the fan in heating.

2. When **GAS/EL** or **HP** is set for **HP**:
This switch (**GAS** or **ELEC**) defines the Aux Heat type. When **GAS** is chosen, the auxiliary heat will not be allowed to run during heat pump operation. When using a Dual Fuel system, set this switch for **GAS**. When **ELEC** is chosen, up to two stages of auxiliary strip heat will be allowed to run.

Installation Instructions

Sample Wiring Diagrams with Dip Switch Positions

Conventional Heating and Cooling Systems

2 Wire, Heat Only

Residential & Commercial 1 Stage Heating with no Fan.

The thermostat will not work with 2 wires. Either pull new wire or purchase a model TSTATGAC-2W two-wire kit

GAS/EL  HP
O B
GAS ELEC

3 Wire, Heat Only

Residential & Commercial 1 Stage Heating with no Fan.

R 24VAC Power
C 24VAC Common
W1/O/B 1st Stage Heat

GAS/EL  HP
O B
GAS ELEC

4 Wire, Cool Only

Residential & Commercial 1 Stage Cooling.

R 24VAC Power
C 24VAC Common
Y1 1st Stage Cool
G Fan

GAS/EL  HP
O B
GAS ELEC

5 Wire, 1 Stage Cooling, 1 Stage Heat

Residential & Commercial 1 Stage Cooling, with 1 stage Gas Heat.

R 24VAC Power
C 24VAC Common
W1/O/B 1st Stage Heat
Y1 1st Stage Cool
G Fan

GAS/EL  HP
O B
GAS ELEC

5 Wire, 1 Stage Cooling, 1 Stage Heat

Residential & Commercial 1 Stage Cooling, with 1 stage Electric Heat.

R 24VAC Power
C 24VAC Common
W1/O/B 1st Stage Heat
Y1 1st Stage Cool
G Fan

GAS/EL  HP
O B
GAS ELEC

8 Wire, 2 Stage Cooling, 3 Stage Heat

Residential & Commercial 2 Stage Cooling, with 3 stage Gas Heat.

R 24VAC Power
C 24VAC Common
W1/O/B 1st Stage Heat
W2 2nd Stage Heat
W3/AUX 3rd Stage Heat
Y1 1st Stage Cool
Y2 2nd Stage Cool
G Fan

GAS/EL  HP
O B
GAS ELEC

Installation Instructions

Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems

5 Wire, 1 Stage Cooling, 1 Stage Heat
Residential & Commercial Heat Pump with
'O' Reversing Valve

R 24VAC Power
C 24VAC Common
W1/O/B Reversing Valve
Y1 1st Stage Compressor
(Cool or Heat)
G Fan

GAS/EL  HP
O  B
GAS  ELEC

6 Wire, 1 Stage Cooling, 2 Stage Heat
Residential & Commercial Heat Pump with
'O' Reversing Valve

R 24VAC Power
C 24VAC Common
W1/O/B Reversing Valve
Y1 1st Stage Compressor
(Cool or Heat)
W2 Aux Heat
G Fan

GAS/EL  HP
O  B
GAS  ELEC

7 Wire, 2 Stage Cooling, 3 Stage Heat
Residential & Commercial Heat Pump with
'O' Reversing Valve.

R 24VAC Power
C 24VAC Common
W1/O/B Reversing Valve
W2 3rd Stage Heat
Y1 1st Stage Compressor
(Cool or Heat)
Y2 2nd Stage Compressor
(Cool or Heat)
G Fan

GAS/EL  HP
O  B
GAS  ELEC

(Number of Compressor Stages set to 2)

8 Wire, 2 Stage Cooling, 4 Stage Heat
Residential & Commercial Heat Pump with
'O' Reversing Valve.

R 24VAC Power
C 24VAC Common
W1/O/B Reversing Valve
W2 3rd Stage Heat
W3/AUX 4th Stage Heat
Y1 1st Stage Compressor
(Cool or Heat)
Y2 2nd Stage Compressor
(Cool or Heat)
G Fan

GAS/EL  HP
O  B
GAS  ELEC

(Number of Compressor Stages set to 2)

Installation Instructions

Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems with Dual Fuel

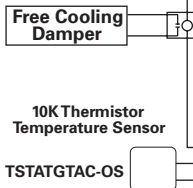
7 Wire, 2 Stage Cooling, 3 Stage Heat
Residential & Commercial Heat Pump with
'O' Reversing Valve and Fossil Fuel furnace.

R	24VAC Power
C	24VAC Common
W1/O/B	Reversing Valve
W2	3rd Stage Heat (connected to furnace)
Y1	1st Stage Compressor (Cool or Heat)
Y2	2nd Stage Compressor (Cool or Heat)
G	Fan

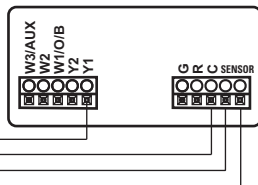
GAS/EL		3	HP
O		2	B
GAS		1	ELEC

Number of Compressor Stages
set to 2
(see Compressor Stages, pg. 37)
Dual Fuel set to On
(see Dual Fuel Settings, pg. 40)

Free Cooling



Use 18-22 gauge thermostat wire.



Free Cooling utilizes the Y1 terminal for the operation of 1st stage cooling. If mechanical (compressor) cooling is also present, the mechanical cooling is connected to the Y2 terminal in this instance.

Free Cooling may be used with a Gas/Electric or Heat Pump system.

Temperature Sensor: TSTATGTAC-OS Temperature Sensor 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

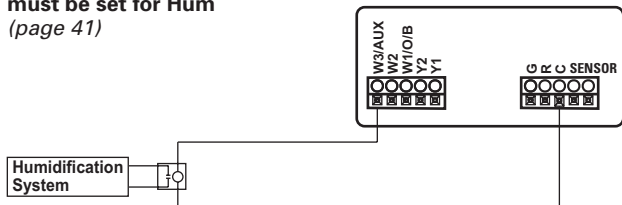
Installation Instructions

Sample Wiring Diagrams

Humidification

AUX Output Usage
must be set for Hum
(page 41)

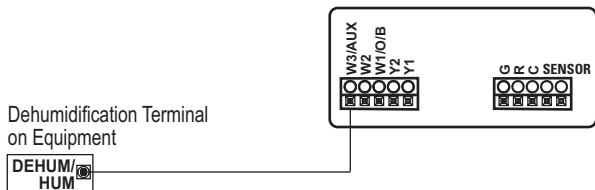
Use 18-22 gauge
thermostat wire.



Dehumidification

AUX Output Usage
must be set for Dehum
(page 41)

Use 18-22 gauge
thermostat wire.



Troubleshooting

- **SYMPTOM:** The thermostat touchscreen buttons are not responsive.
CAUSE: The touchscreen is out of calibration.
REMEDY: Remove the thermostat from the backplate. Push the thermostat back onto the backplate, while keeping your finger pressed firmly against the center of the touchscreen, until the Calibration screen appears. Re-calibrate the Touchscreen.
- **SYMPTOM:** The display is blank.
CAUSE: Lack of proper power.
REMEDY: Make sure the power is on to the HVAC and that you have 24vac between **R & C**.
- **SYMPTOM:** The air conditioning does not attempt to turn on.
CAUSE: The cooling setpoint is set too high.
REMEDY: Lower the cooling setpoint or lower the cooling setpoint limit. *See Setpoint Limits (page 28).*
- **SYMPTOM:** The heating does not attempt to turn on.
CAUSE: The heating setpoint is set too low.
REMEDY: Raise the heating setpoint or raise the heating setpoint limit. *See Setpoint Limits (page 28).*
- **SYMPTOM:** When controlling a residential heat pump, and asking for cooling, the heat comes on.
CAUSE: The thermostat reversing valve dip switch is set for **"B"**.
REMEDY: Set the reversing valve jumper for **"O"**.
- **SYMPTOM:** When calling for cooling, both the heat and cool come on.
CAUSE: The thermostat equipment dip switch is configured for **"HP"** and the HVAC unit is a Gas/Electric.
REMEDY: Set the equipment dip switch for **"Gas"**.
- **SYMPTOM:** Air handler control board fuse blows when thermostat is attached to backplate with power on, but does not blow until the thermostat is placed onto the backplate.
CAUSE: The Outdoor sensor and/or sensor wiring is shorted.
REMEDY: Check/replace Outdoor sensor and/or sensor wiring.

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Warranty

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