TSTATD4272CGT
COMMERCIAL

High Resolution Touch Screen Digital Thermostat

with **Humidity Control** Multi Stage 4+2

Skyport™ CLOUD SERVICES Compatible with Wi-Fi accessories

for
Commercial Use

Owner's Manual

and

Installation Instructions

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.

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LISTED
4Z95

Thermostat TSTATD4272CGT
FC Tested to Comply with FCC Standards
FOR HOME OR OFFICE USE

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.*

Table of Contents

GET TO KNOW YOUR THERMOSTAT

Home Screen 1
Menu Screens 1
Dropdown Dashboard 2
Care and use of your thermostat 3

QUICK START

Selecting your desired temperature and mode 4
Using the Fan button 4
Using the Override button 5
Setting the time 7
Setting the date 8
Daylight Savings setup 8

MAIN MENU BUTTONS

Schedule 9
View My Schedule 10
Edit My Schedule 10
Unoccupied Settings 11
FAN SETTINGS 12
Fan On/Auto 13
Occupied Fan State 13
Preoccupancy Fan Purge 13
Preoccupancy Fan Purge Time 13
SCREENSAVER 14
Screensaver On/Off 15
ScreensaverSetup 15
Screensaver Preview 15
ALERTS 16
View Current Alerts 17
Reset Alerts 17
Set/Edit Reminders 17
Service Information (Who To Call For Service) 17

Table of Contents

DISPLAY.....18
Active Brightness.....19
Idle Brightness.....19
Night Dimmer.....19
Maintenance.....20

PREFERENCES.....21
User Interface Themes.....22
Custom Wallpaper.....22
Heat/Cool Indicator.....22
Backdrop On/Off.....22
Sound Options.....22

HUMIDITY.....23
Humidification Settings.....24
Dehumidification Settings.....24

HOLIDAYS.....25
Holiday Schedule On/Off.....26
Edit Holidays.....26
Preset Holidays.....28

SECURITY.....29
Auto Screenlock.....30
Setpoint Limits.....30

INFORMATION.....31
My Thermostat.....32
View Runtime Graphs.....32
Who To Call For Service.....32

SETTINGS.....33
Thermostat Name.....37
Available Modes.....37
SD Card (Import and Export).....37

Table of Contents

GENERAL SETUP.....37
Units (F or C).....37
Language.....38
Smart Recovery On/Off.....38
INSTALLATION SETTINGS.....38
Heat & Cool Stages.....38
Heat & Cool Stages.....38
Compressor Stages.....38
Aux Heat Stages.....38
Timers & Deadbands.....38
Heat Pump Settings.....40
Heat Pump Lockout - Enabled/Disabled.....40
Heat Pump Lockout Outdoor Temp.....40
Aux Heat Lockout Enabled/Disabled.....40
Aux Heat Lockout Temp.....40
Aux Output Settings.....40
Sensor Settings.....41
Fan Off Delay.....41
Test Outputs.....41
Dealer Information.....42
Upgrade Firmware.....42
Delete Custom Images.....42
Calibrate Clock.....42
Reset to Factory Default Settings.....42
Restart Thermostat.....42

Table of Contents

Accessories *43*
Accessory Info *44*
Setup *44*
EMERGENCY HEAT *45*
TOUCHSCREEN ASSISTANT *46*
Installing the TouchScreen Assistant Software *46*
Uploading Photos *47*
INSTALLATION INSTRUCTIONS *48*
Remove & Replace the Old Thermostat *48*
Wire Connections *49*
The TouchScreen Thermostat Backplate *50*
Explanation Of the Thermostat Dip Switches *51*
Sample Wiring Diagrams *52*
TROUBLESHOOTING *56*
INDEX *57*
WARRANTY *62*

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

Outdoor Temperature (If optional accessory is used)

Humidity Reading

Connectivity Symbol (if optional accessory is installed)

Drop Down Sensor Button

Warmer Button

SD Card Slot

Cooler Button

Menu Button

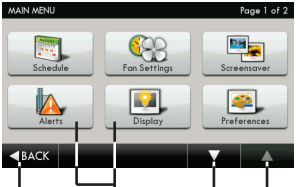
Fan Button

Mode Buttons

Date & Time

Override Button

Main Menu Screen

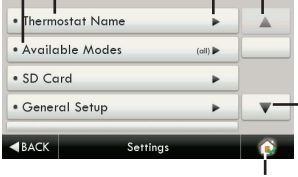


Back Button

Menu Buttons

Scrolling Buttons

Sub Menu Screen



Sub Menu Buttons

Scrolling Buttons

Indicates Options Available

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.

Humidity Reading

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

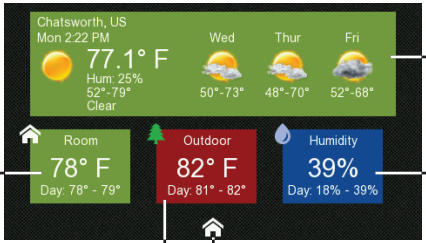
Drop Down Dashboard Button

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)



Weather Display

Room Temp

Humidity

Outdoor Temp

Press the HOME button to return to the Home Screen

Care and Use of Your Thermostat

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

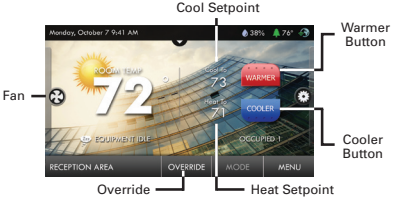
Use a soft, damp cloth to clean the screen.

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

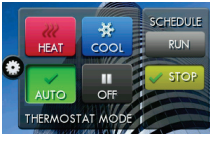
Selecting Your Desired Temperature and Mode

Press WARMER **or** COOLER **to adjust temperature**

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



Press MODE **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.

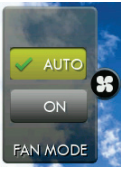
OFF - heating and cooling systems are turned off.

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 except in OFF Mode.

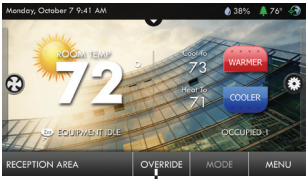
FAN AUTO fan only runs with a heating or cooling demand.

***Note**: FAN button is disabled during Program Run Mode.*

Using the Override Button

OVERRIDE

NOTE: Override may only be used when the thermostat is set to Program RUN or Holiday ON modes.



Override

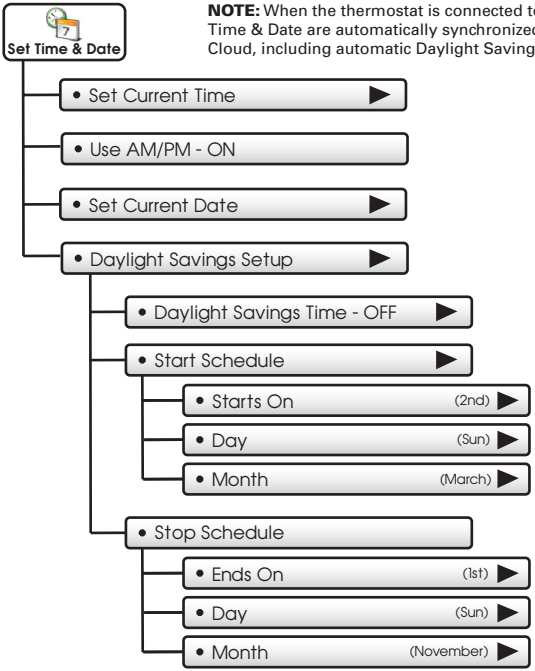
Unoccupied Operation - During programmed, unoccupied periods, pressing the **OVERRIDE** button will force the thermostat into Occupied 1 settings. When the **OVERRIDE** button is pressed, a timer screen will appear and allow the user to choose from 30 minutes to up to 4 hours of override time.
To turn off the override timer, press the **OVERRIDE** button and when the timer screen appears, press **CANCEL OVERRIDE**.

Occupied Operation - During programmed, occupied periods, pressing the OVERRIDE button will force the thermostat into an unoccupied period for the rest of the day. During this forced unoccupied period the **OVERRIDE** button will operate as described above.

Holiday Operation - During Holiday Mode, pressing the **OVERRIDE** button will force the thermostat into Occupied 1 settings. When the **OVERRIDE** button is pressed, a timer screen will appear and allow the user to choose from 30 minutes to up to 4 hours of override time. To turn off the override timer, press the **OVERRIDE** button and when the timer screen appears, press **CANCEL OVERRIDE**.

Quick Start - Set Time & Date

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



Setting the Time

Press MENU **then** ▼ **to scroll down.**

Press Set Time & Date

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

Press

• Set Current Time (12:00 AM) ▶

Press hr + / hr - **and** min + / min - **to set the current time.**

Press ◀ BACK **when finished.**

Choose

• Use AM/PM - ON ✓

For 12 hour AM/PM clock

• Use AM/PM - OFF ▶

For 24 hour clock

Press ◀ BACK **when finished.**

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 ◀ BACK 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

• Starts On (2nd) ▶

• Day (Sun) ▶

• Month (March) ▶

Adjust when Daylight Savings Time ends.

• Stop Schedule ▶

• Ends On (1st) ▶

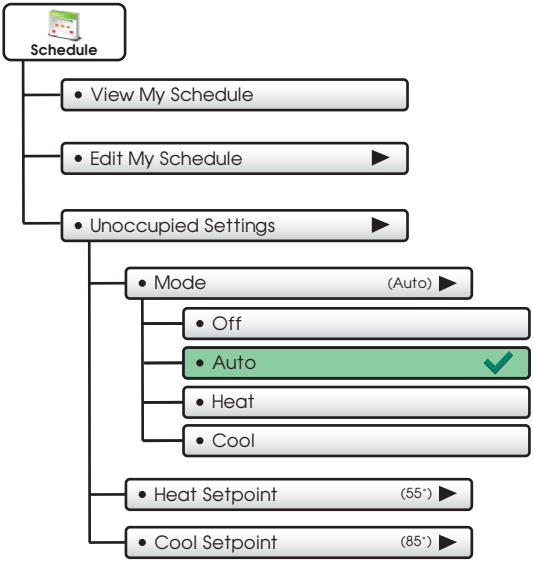
• Day (Sun) ▶

• Month (November) ▶

Press ◀ BACK **after making a change to a selection.**

Press ◀ BACK **or the Home button when finished.**

Main Menu Buttons - Schedule



Main Menu Buttons - Schedule

Schedule

This thermostat features up to 3 Occupied time periods per 24 hour day.

• View My Schedule ▶

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

• Edit My Schedule ▶

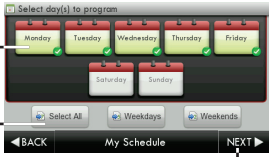
Press and select day(s) to program

Select individual day(s)

or

Select groups of day(s)

Then press **NEXT**



Press and select a Time Period (Occupied 1, Occupied 2, or Occupied 3) to edit.

TIP:
Occupied 2 will override Occupied 1 and Occupied 3 will override Occupied 1 & 2.

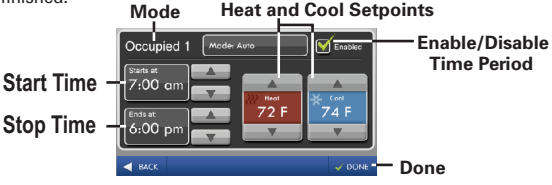
Next

Continued ▶

• Edit My Schedule ▶

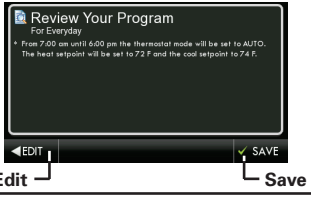
(Continued)

Adjust Mode, Start Time, Stop Time, and Heat and Cool Setpoints to desired settings. The Time Period May also be Enabled or Disabled. Uncheck the enabled box for Time Periods you don't want to use. Press DONE when finished.



When you are finished editing the time periods press **NEXT ▶**

Review your program.
Press **SAVE** to keep your program.
Press **EDIT** to make further changes.



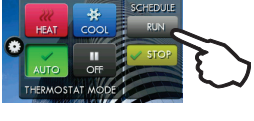
• Unoccupied Settings ▶

Choose your Mode and Heat and Cool setpoints for the Unoccupied period.

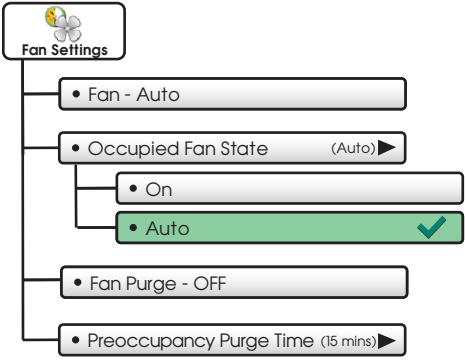
- • Mode (Auto) ▶
- • Heat Setpoint (55˚) ▶
- • Cool Setpoint (85˚) ▶

Press MODE or the MODE Icon

On the Home Screen to select to Run or Stop Schedule



Main Menu Buttons - Fan Settings



Main Menu Buttons - Fan Settings

The fan may be set to run continuously during Heat, Cool, Auto, and Occupied modes. A Preoccupancy Fan Purge schedule may also be set.

Press to turn fan On to run continuously or Auto for fan to run only with heating or cooling.

- Fan - ON ✓
- Fan - Auto

- Occupied fan state (On) ►

Press to turn fan On to run continuously during Occupied mode or Auto for fan to run only with heating or cooling.

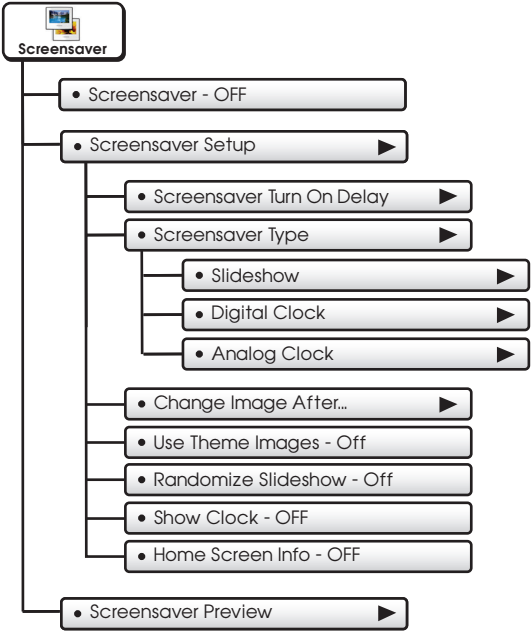
- Fan Purge - OFF ►

Press to turn on Preoccupancy Fan Purge. This feature allows the fan to run for a preset amount of time before Occupied 1 begins.

- Preoccupancy Purge Time (15 mins) ►

The Preoccupancy Fan Purge timer may be set from 15 minutes to 3 hours in 15 minute increments.

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 ▶

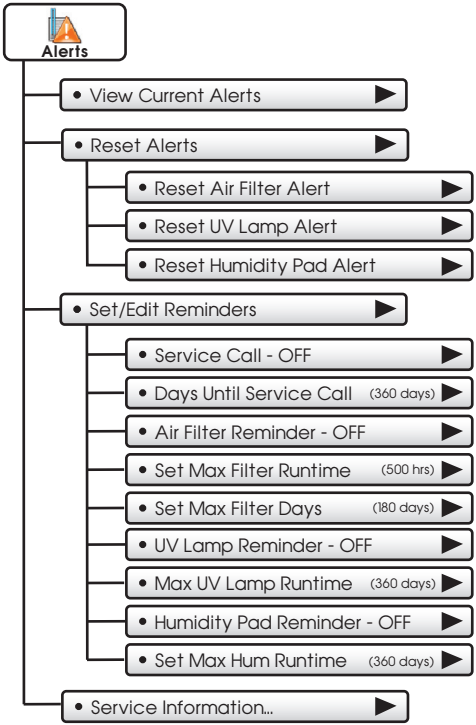
    Shows the mode, setpoints, and temperature after every 10 photos. Off or On.

- 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 ▶

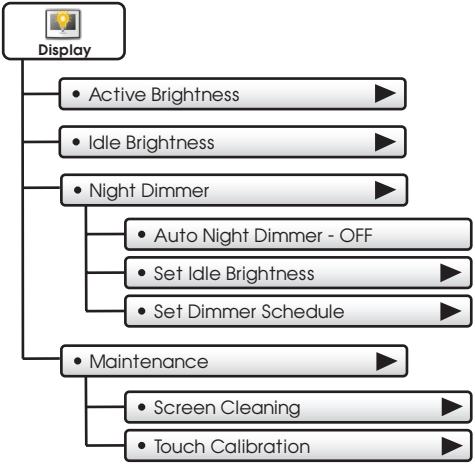
Set service alert runtimes and turn reminders on or off.

- • 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 theTouchScreen 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 (50%) ▶

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.

• Maintenance ▶

Maintenance allows you to clean and calibrate the touch screen.

• Screen Cleaning ▶

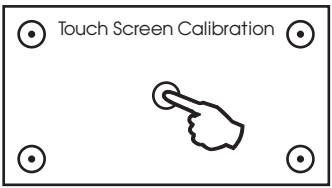
Screen Cleaning Mode disables the touch feature for 15 seconds so the screen may be cleaned without altering any settings.

Use a soft cloth without solvents or abrasive cleaners

• Touch Calibration ▶

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

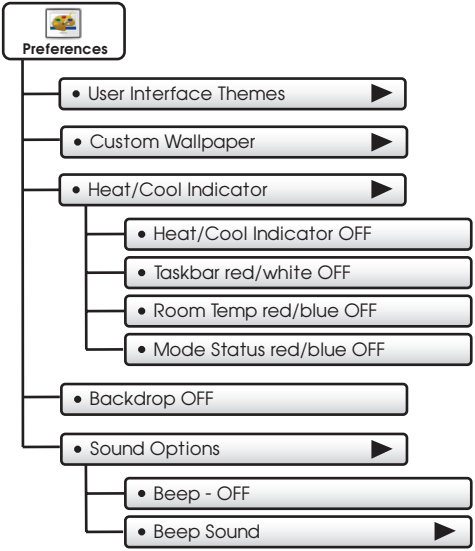
Touch the center of the targets as they appear on the screen.



Press FINISH when done.

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

Main Menu Buttons - Preferences



Preferences

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

- User Interface Themes (Buildings) ▶

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**
- **Taskbar Red/White - ON/OFF**
- **Room Temp Red/Blue - 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 ▶

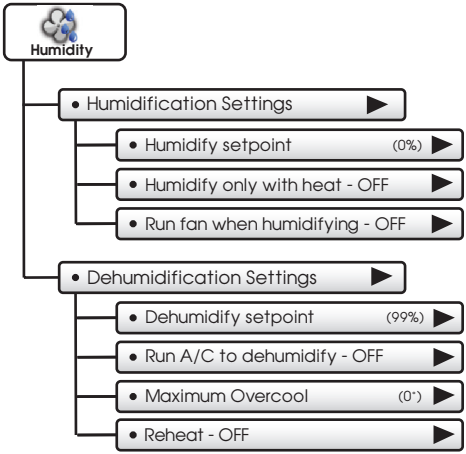
  - Beep - ON ✔

  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 in the Installation Settings menu.

• 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.

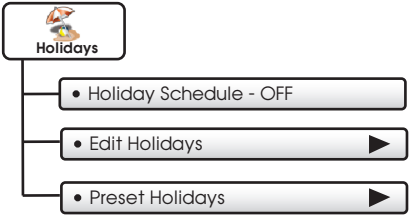
• Maximum Overcool (0°) ▶

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 Dip Switch #1 must be set to ELEC to access this feature)

Main Menu Buttons - Holidays



Main Menu Buttons - Holidays

The Holiday Schedule allows the ColorTouch Screen to follow a fully customizable preset, weekly, monthly, and yearly holiday program. The thermostat will stay in Unoccupied settings while Holiday is active.

• Holiday Schedule - OFF

Press to turn Holiday Schedule **On** or **Off**.

• Edit Holidays ▶

Start by selecting a Holiday.

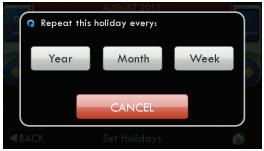
You may continue to select more holidays or you can press the **Repeat** button for recurring holidays.

Pressing a selected holiday will deselect that holiday.

Using the Repeat Button

Choose to repeat the holiday every week, month or year. Or, press **CANCEL** to go back.

If you choose to repeat the holiday every week, you will be prompted to confirm the day of the week to be repeated.



Using the Info Button

Press the **Info** button to view how non-holidays, holidays, and exceptions to repeating holidays will appear on the Holiday calendar.

Continued ▶

• Edit Holidays ▶

(Continued)

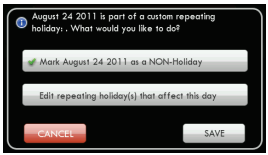
Deselecting Holidays

You may deselect a holiday simply by pressing on it.

Press **BACK** to save your changes and return to the Holiday menu.

If you choose to deselect a holiday that is part of a Custom Repeating Program, the screen below will appear.

Marking Non-Holidays

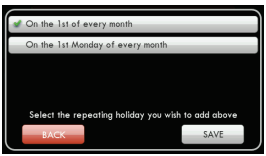


You will now be prompted to mark this day only as a non-holiday or edit **All** repeating holidays that affect this day.

Press **SAVE** to mark only this day as a non-holiday.

If you choose to edit repeating holidays that affect this day, press **NEXT** and the next screen will appear.

Editing Repeating Holidays



If, for example, you choose to repeat the holiday every month, the following screen will appear:

You may now choose to repeat the holiday:

- On the 25th of every month
- On the 4th Monday of every month
- On the last Monday of every month

Press **SAVE** to save your changes and return to Holiday programming.

Continued ▶

• Edit Holidays ▶ (Continued)

Editing Repeating Holidays (continued)

You may now delete all repeating custom holidays in this group by pressing the **ON** box to uncheck your selection. Press **SAVE** to return to Holiday editing screens.

• Preset Holidays ▶

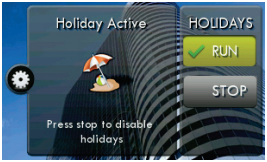
You may choose from several standard preset holidays to observe. When the preset holidays are set to **ON**, they will be observed every year on that date.

Overriding Holiday Mode

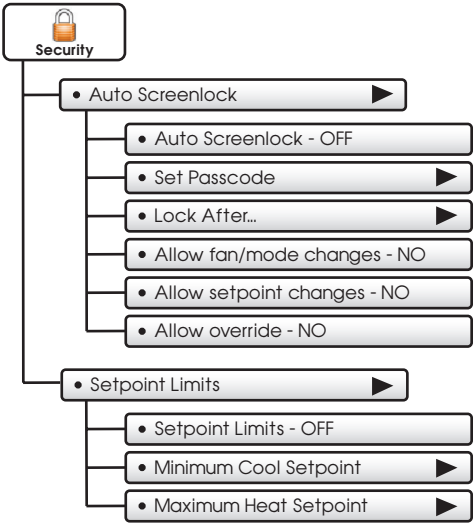
You may override Holiday Mode by pressing the **OVERRIDE** button and choosing the amount of override time desired.

Turning Off Holiday Mode From The Homescreen

You may turn off Holiday Mode by pressing the **MODE** button and then pressing the Holiday **STOP** button.



Main Menu Buttons - Security



Main Menu Buttons - Security

Security

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

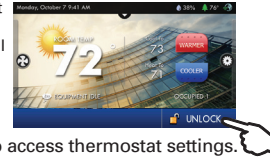
- Auto Screenlock ▶
  - Auto Screenlock - OFF
  - Auto Screenlock - ON ✔
  - Set Passcode (code not set)

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 mode changes when Auto Screenlock is on.

- Allow setpoint changes - NO

Choose to allow setpoint changes when Auto Screenlock is on.

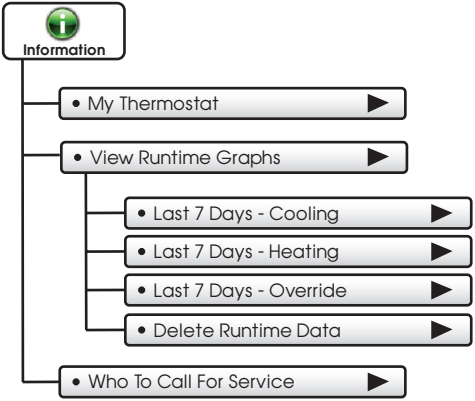
- Allow override - NO

Choose to allow use of the Override 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.

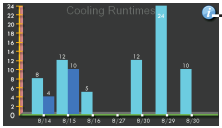
• My Thermostat ▶

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

• View Runtime Graphs ▶

Track your system's runtime/energy usage.

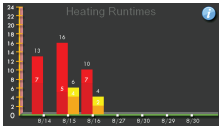
• Last 7 Days - Cooling ▶



Press the information icon to learn more about each graph

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

• Last 7 Days - Heating ▶



Press anywhere on the screen to return to the submenu.

• Last 7 Days - Override ▶

Press to view a graph of override runtime information.

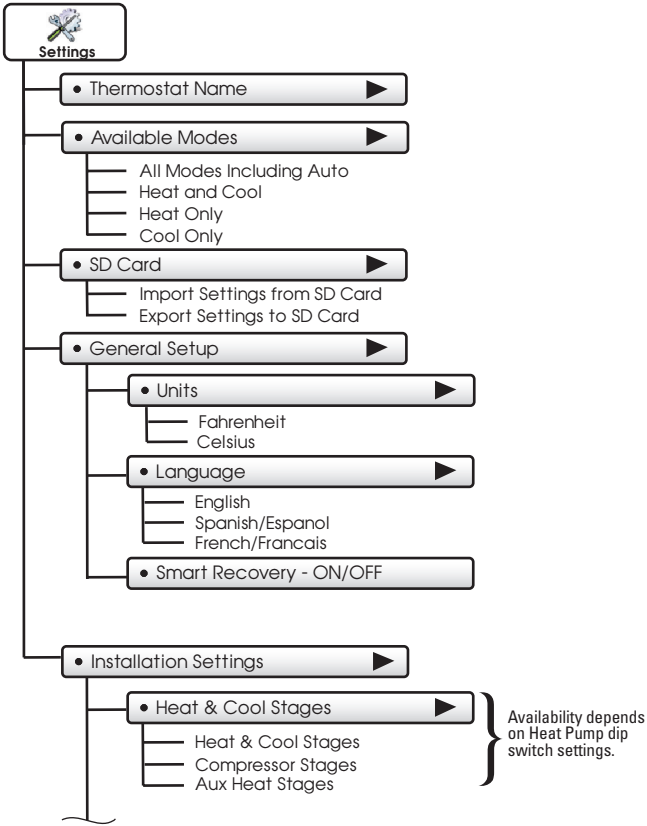
• Delete Runtime Data ▶

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



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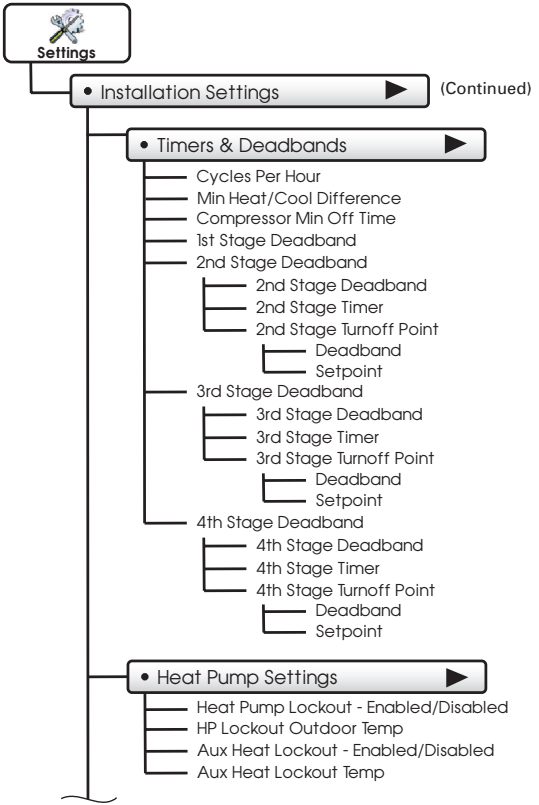
Main Menu Buttons - Settings



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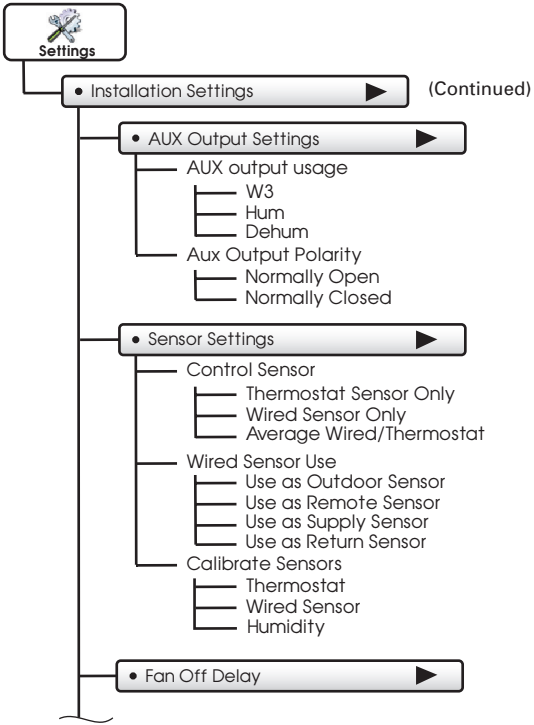
Main Menu Buttons - Settings



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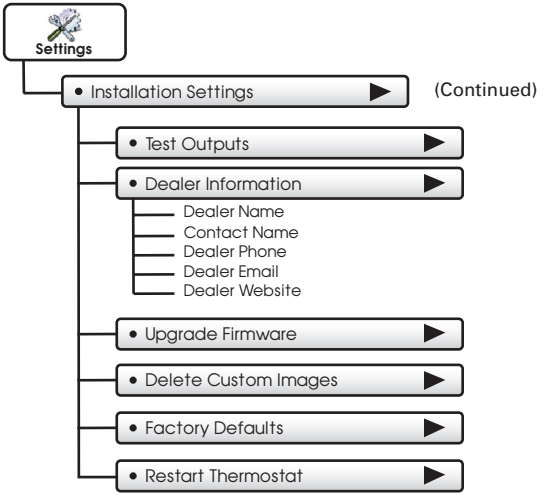
Main Menu Buttons - Settings



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 for further details.

• Import Settings from SD Card ▶

Upload files from ColorTouch 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. Touch Screen Assistant will keep the firmware current.

• General Setup ▶

• Units (F) ▶

- Fahrenheit (F)
- Celsius (C)

- General Setup ▶ (Continued)

  - Language (en) ▶
    - English
    - Spanish/Español
    - French/Français
  - Smart Recovery - OFF
  - Smart Recovery - ON ✔

  Smart Recovery turns on the heat before the Occupied start time to bring the room temperature to the Occupied setpoint at the start of the Occupied 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.

- 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)

- Installation Settings ▶ (Continued)

- Timers & Deadbands ▶ (Continued)

  - 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.

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.

• 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 ✓

A local outdoor sensor connected to the thermostat is required.

Turns on Heat Pump Lockout.

• HP Lockout Outdoor Temp (65˚) ▶

Heat Pump will not run below this temp. (0˚ - 75˚ 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. (0˚ - 75˚ F) GAS/EL or HP dip switch must be set for HP and GAS or ELEC dip switch must be set for ELEC.

• AUX Output Settings ▶

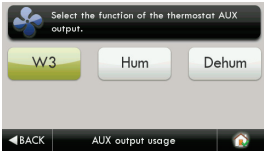
Allows the W3/AUX output to be used for Heating, Humidification, or Dehumidification.

• 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.



• 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
- Wired 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°) ▶

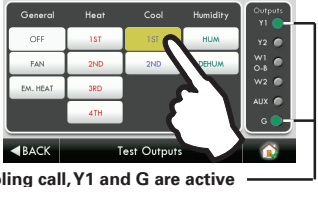
The thermostat and wired sensor may be calibrated -7° to +7° F.
The integral humidity sensor may be calibrated -20% to +20% RH

• 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.)

• 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

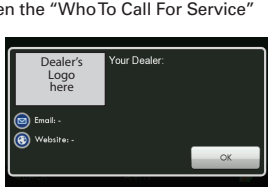
• Dealer Information ▶

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 45)



• 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.

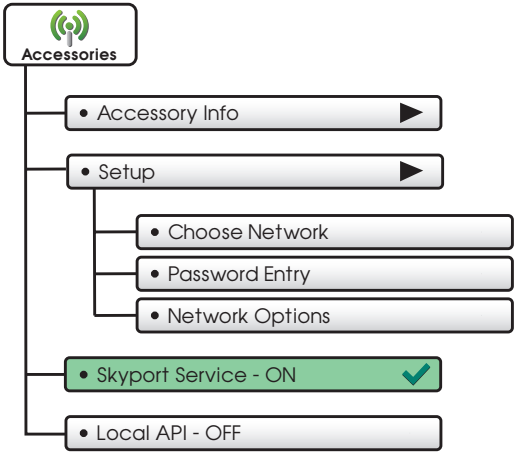
• Factory Defaults ▶

Press to reset the thermostat back to the factory settings.

• Restart Thermostat ▶

If needed, press here to restart the thermostat.

Main Menu Buttons - Settings



Main Menu Buttons - Settings

• 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 indentifying local access points, you will be promted 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.

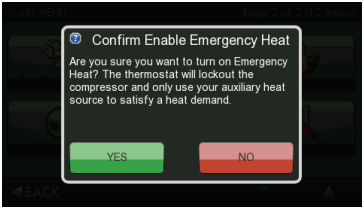
• Local API - OFF

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

Main Menu Buttons - Emergency Heat

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.daikinthermostats.com/touchscreen/

Every time the user runs the TouchScreen Assistant software, it automatically connects to Daikin TouchScreen 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
- Configure installation settings
- Program a time period schedule
- Upload dealer and service contact information and company logo
- Update thermostat firmware

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 Settings

SD Card Slot

Press • SD Card ▶

Then press • Import Settings from SD Card ▶

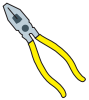
Select the items to import into your thermostat then press NEXT ▶

Your thermostat will automatically save your new photos and settings in it's internal memory. When finished, you may remove the SD card. It is not needed for normal thermostat operation.

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.

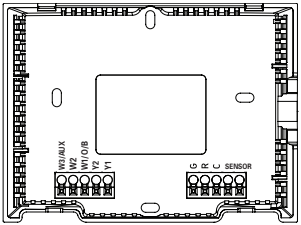
Wire Connections

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	W1/0/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.

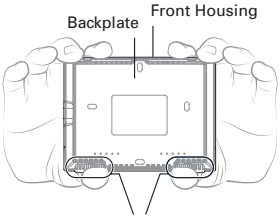
The TSTATD4272CGT Thermostat Backplate



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



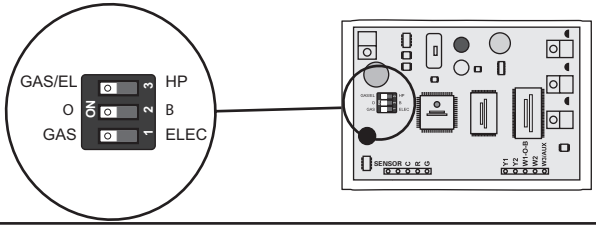
Pull out with thumbs in these areas

W3/AUX	3rd stage heat circuit/2nd stage aux heat/humidification/dehumidication
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 <u>both</u> R (24 VAC Return) and C (24 VAC Common) be connected to the backplate terminals.

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.

O B O B

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.

GAS ELEC GAS ELEC

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 ELEC is chosen, up to two stages of auxiliary strip heat will be allowed to run.

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	ON	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	ON	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	ON	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	ON	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	ON	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	ON	B
GAS		ELEC

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
O
GAS

HP
B
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
O
GAS

HP
B
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
O
GAS

HP
B
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
O
GAS

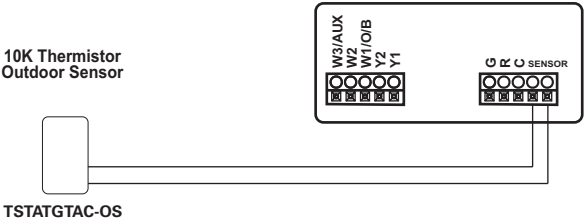
HP
B
ELEC

(Number of Compressor Stages set to 2)

Sample Wiring Diagrams

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

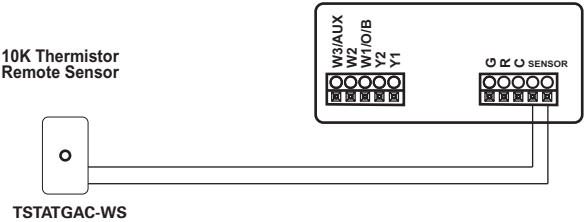
Use 18-22 gauge thermostat wire.



Indoor Remote Sensor with Override Button: TSTATGAC-WS Temperature Sensor 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

(see page 41 for sensor setup instructions)

Use 18-22 gauge thermostat wire.

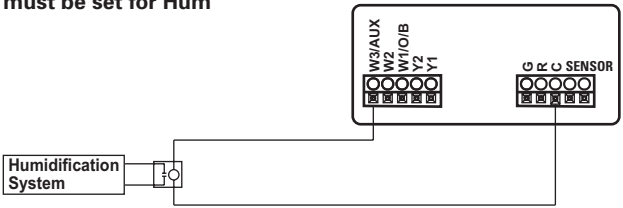


Sample Wiring Diagrams

Humidification

AUX Output Usage must be set for Hum

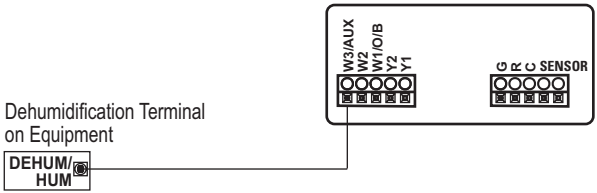
Use 18-22 gauge thermostat wire.



Dehumidification

AUX Output Usage must be set for Dehum

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 set-point limit. *See Setpoint Limits (page 30).*
- **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 set-point limit. *See Setpoint Limits (page 30).*
- **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.

Index

A

Accessories 43, 44
Active Brightness, 19
Alerts, 17
view current, 17
reset, 17
set/edit reminders, 17
See also Runtime
Aux Heat Lockout, 40
Aux Output, 40, 53
Auto
adjust temperature, 4
changeover, 4
fan, 4
mode, 4
Auto Screenlock, 29
Available Modes, 37

B

B Reversing Valve, 49
Backdrop, 22
Backlight, 19
Backplate, 50
Beep, 22
Buttons,
Back, 1
Cooler, 1, 4
Fan, 1, 4
Home, 1
Mode, 1, 4
Menu, 1

C

Override, 5
Warmer, 1
C, 49
Calibration, 41
Celsius, 37
Choose Network, 43, 44
Cleaning, 3, 20
Clock
Display 1
Setting, 7
TouchScreen Assistant, 47
Compressor Lockout, 39
Cool
1st stage deadband, *see Deadband*
2nd stage deadband, *see Deadband*
Hours of runtime, 32
Custom Wallpaper, 22
Cycles Per Hour, 38

D

Daylight Savings, 8
Deadband
1st stage, 39
2nd stage, 39
3rd stage, 39
4th stage, 39
Dealer Information, 32, 42
Delay
Fan-off, *see Fan*
Time between stages, *see Time Delay*
Dehumidification, 24, 53
Differential
Heat and cool, 39
Dimmer, 19
Dip Switches
ELEC, 51
electric heat, 51
GAS/EL, 51
GAS, 51
HP, 51
heat pump, 51
O, 51
B, 51
Disabled Buttons
see Security
Display, 19

E

Electric Heating
Aux heat, 40
Dip switch setting, 49
Lockout, 40

Index

Emergency Heat, 45

Energy Watch
- Cool, 32
- Heat, 32
- Aux heat, 32

F

Factory Defaults
- resetting, 42

Fahrenheit, 37

Fan
- button function, *see Buttons*
- off time delay, 41
- on during heat, *see Electric Heat*
- runtime, 32
- 2nd stage heat, *see Emergency Heat*

G

Gas/Electric Furnace
- dip switch, 49

General Setup, 37

H

Heat
- 1st stage
  - deadband, *see Deadband*
  - emergency heat, 45
  - hours of runtime, 32
- 2nd stage deadband, *see Deadband*
  - electric strip heat, *see Aux Heat*
  - hours of runtime, 32
- 3rd stage deadband, *see Deadband*
- 4th stage deadband, *see Deadband*
  - timer, 39
  - turnoff point, 39
- electric/heat pump, 40
- mode, 4
- program, *see Schedule*
- runtime, *see Runtime*
- setpoint, 4

Heat/Cool Indicator, 22

Heat Pump
- aux heat, 38, 40
- aux heat lockout, 40
- emergency heat, 45
- heat pump lockout, 40
- dip switch setting, 49
- multi-stage, 38, 39

Holiday, 26

Humidity, 24, 53

I

Idle Brightness, 19

Information, 32

Installation Settings, 38

Installation, 48

K

Keypad, 30

L

Language, 38

Lock
- *see Security*

Logo, 42

Index

M

Main Menu, 1, 9
Maintenance, 20
Manual
changeover, 4
cool, 4
heat, 4
Mode, 1, 4
Mode Restrictions, 30
Morning Warm-up, *see Smart Recovery*
Multi-Stage Operation, 4

N

Network Password, 43, 44
Night Dimmer, 19
Non-Programmable Thermostat, ii

O

O Reversing Valve, 49
Off Mode, 4
Outdoor
calibrate, 41
high and low temp, 3
sensor, 41, 52
viewing temp, 1
Overcool, 24
Override, 5

P

Passcode, 30
Photos, 22, 45
Preferences, 22
Program
daily schedule, 10

R

Reheat, 24
Remote Sensor, 41, 52
Reset
alert messages, 17
thermostat settings, *see Factory Defaults*
runtime,
fan/filter, 17
UV light, 17
Reversing Valve, 49
Runtime
resetting, *see Reset*
service filter, 17
UV light, 17
viewing, 17, 32

S

Schedule
turn on/off, 10
view, 10
edit, 10
Screen Cleaning, 3, 20
Screensaver
turn on/off, 15
setup, 15
preview, 15
SD Card, 37
2nd stage turn off temperature, 39
Security, 30
Sensor
outdoor, 41, 52
remote, 41, 52
thermostat, 41
Service
alerts, 17
information, 17, 32
Set Clock, *see Clock*
Setpoint
cool, 4
heat, 4
limits, 30
Settings, 37
Skyport Service ON/OFF, 43, 44
Smart Recovery, 38
Sound Options, 22
Stages, 38

T

Terminals,
see Backplate
Test Outputs, 41
Themes, 22
Thermostat Sensor
calibrate, 41
Three Stage Heat, 39
Time, *see Clock*
Timers, 38
Time Delay,
compressor lockout, 39
cycles per hour, 38
1st stage to 2nd stage, 39
2nd stage to 3rd stage, 39
3rd stage to 4th stage, 39
Time schedule,
see Schedule
Touch Calibration, 20

U

Upgrade Firmware, 42
User Interface Themes, 22
UV Light,
resetting, 17
runtime, *see Runtime*
setting, *see Runtime*

W

W1, 49
W2, 49
W3, 49
Wallpaper, 22
Warranty, 62
Wiring, 50
gas/electric, 50
heat pump, 51

Y

Y1, 49
Y2, 49

Notes

Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Patent Pending

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P/N 88-990 Rev. 1