

**First Alert®**

# Onelink®

Owner's Manual &  
Installation Guide



Model THERM-500



## CAUTION

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

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### FCC Compliance Statement

This equipment has been tested and found to comply with the limits for an intentional radiator, pursuant to Part 15, subpart C of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference in radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

Notice: Only peripherals complying with FCC limits may be attached to this equipment. Operation with noncompliant peripherals or peripherals not recommended by First Alert / BRK Brands, Inc. is likely to result in interference to radio and TV reception. Changes or modifications to the product, not expressly approved by First Alert / BRK Brands, Inc. could void the user's authority to operate the equipment.

### FCC - INDOOR Mobile Radio Information:

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.



Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

*Cet appareil est conforme avec Industrie Canada, exempts de licence standard RSS(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne doit pas causer d'interférences, et 2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.*

*En vertu des règlements d'Industrie Canada, cet émetteur de radio ne peut fonctionner en utilisant une antenne d'un type et maximale (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire les interférences radio potentielles aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne est pas plus de ce qui est nécessaire pour une communication réussie.*

We, First Alert/BRK Brands, Inc. declare under our sole responsibility that the device to which this declaration relates: 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.

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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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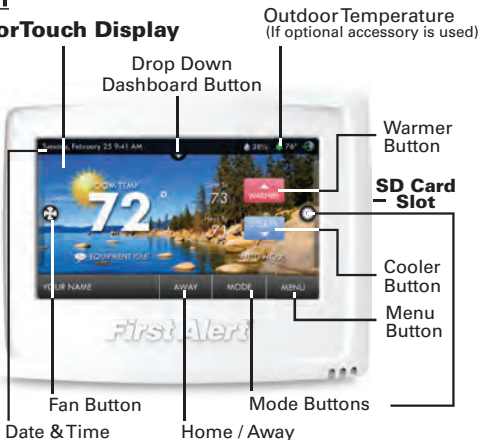


# Get To Know Your Thermostat

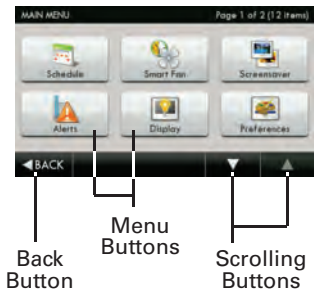
## Home Screen

### Backlit ColorTouch Display

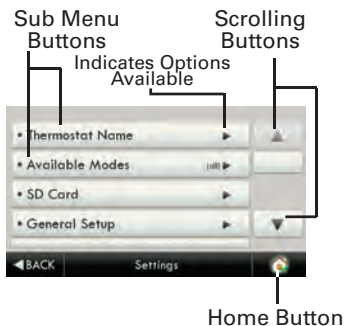
Connectivity Symbol Table	
	Not connected to Wi-Fi
	Connected to local access point w/IP address without Skyport access
	Connected to local access point w/IP address, but not yet connected to Skyport
	Connected to Skyport



## Main Menu Screen



## Sub Menu Screen

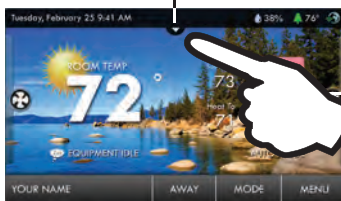


# Get To Know Your Thermostat

## Dropdown Dashboard

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

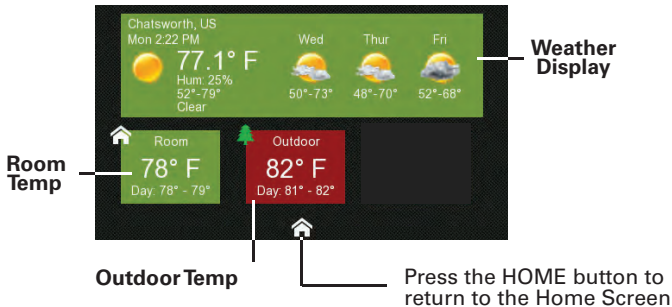
### Drop Down Dashboard Button



Wi-Fi  
Connection  
Icon

### Dropdown Dashboard

(The contents of your Dashboard may vary)



## Get To Know Your Thermostat

### ***Care and Use of Your Thermostat***

Pencils, pens and other sharp objects should never be used on your 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.

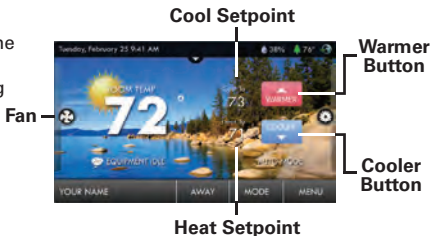
## Quick Start - Temperature, Modes & Fan

### Selecting Your Desired Temperature and Mode

Press **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 on.

(Without regard to deadband)



Press **MODE** or the **MODE Icon** 

**HEAT** will allow only heat operation.

**COOL** will allow only cool operation.

**AUTO** will allow both Heat and Cool operation.

**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.

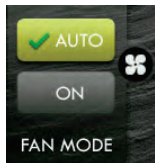


### Using the Fan Button

Press the **FAN Icon** 

**FAN ON** fan runs constantly even in OFF Mode.

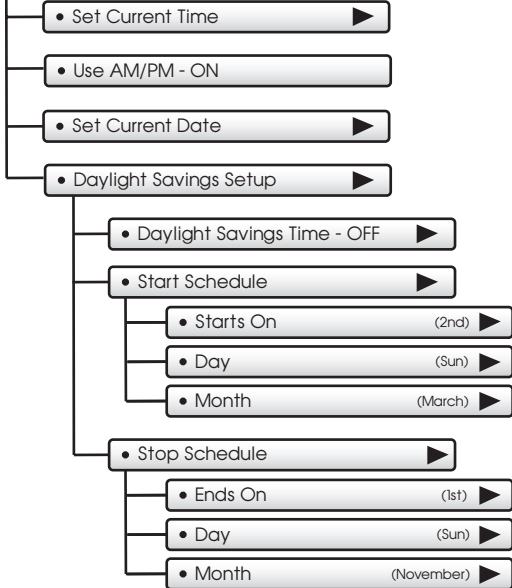
**FAN AUTO** fan only runs with a heating or cooling demand.



## Quick Start - Set Time & Date



**NOTE:** When the thermostat is connected to the 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.

Press



Press



and



to set the current time.

Press



when finished.

Choose



For 12 hour AM/PM clock



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

• Starts On (2nd) 

• Day (Sun) 

• Month (March) 

**Adjust when Daylight Savings Time ends.**

• Stop Schedule 

• Ends On (1st) 

• Day (Sun) 

• Month (November) 

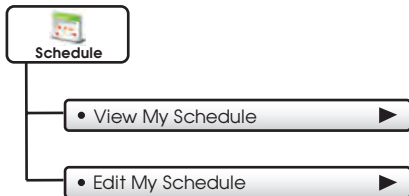
**Press** 

**after making a change to a selection.**

**Press** 

**or the Home button when finished.**

## Main Menu Buttons - Schedule





## Main Menu Buttons - Schedule

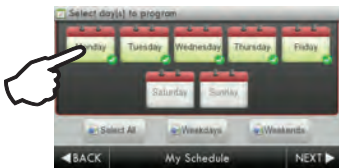


### Schedule

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

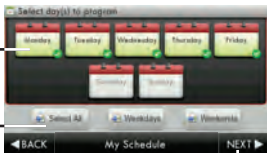
Press and select days to program

Select individual days

or

Select groups of days

Then press **NEXT**



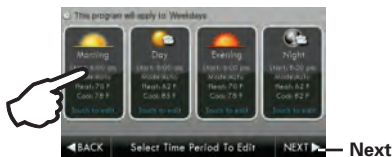
Continued ►

## Main Menu Buttons - Schedule

• Edit My Schedule

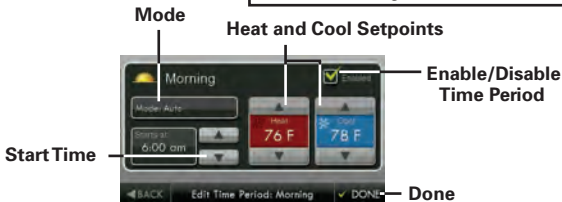
(Continued)

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.

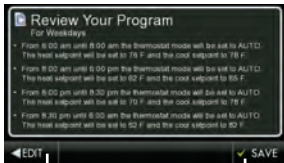
**TIP:** For a simpler schedule that only uses 2 time periods, un-check Enabled for Day and Evening Time Periods.



When you are finished editing the four time periods press



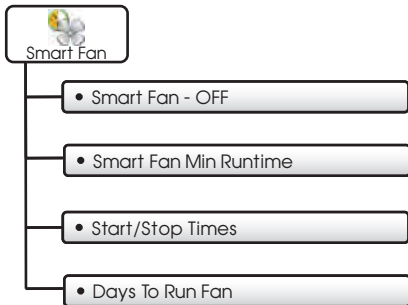
Review your program.  
Press **SAVE** to keep your program.  
Press **EDIT** to make further changes.



Edit

Save

## 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

(10m) ▶

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 Start Time to Stop time. (5 - 60 mins.)

• Start/Stop Times

(7:00AM - 9:00PM) ▶

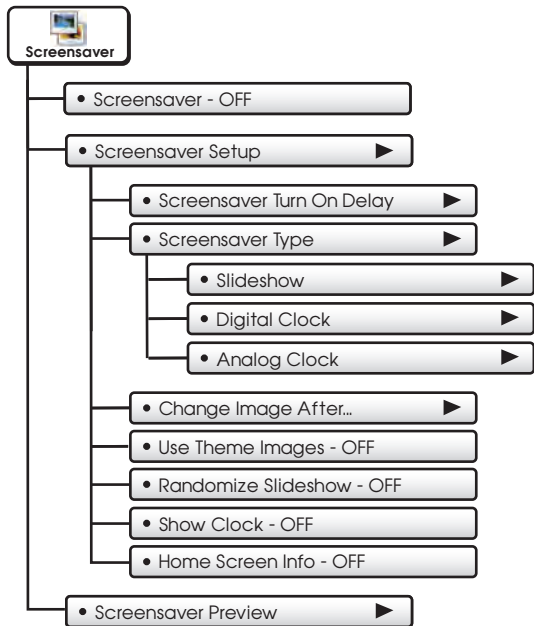
Set when the Smart Fan schedule will start and stop. For example, you may not want Smart Fan to run during sleeping hours.

• 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 

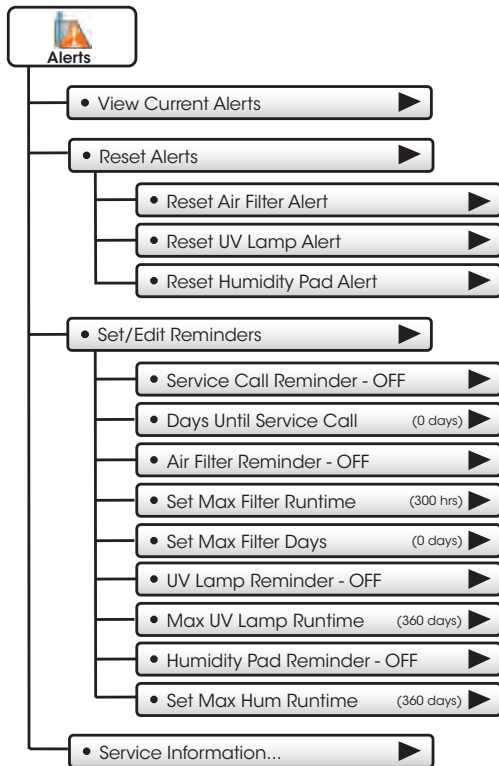
Shows the mode, setpoints, and temperature after every 10 photos. Off or On.

• 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 will 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 (0 days)

• Air Filter Reminder - OFF

• Set Max Filter Runtime (500 hrs)

• Set Max Filter Days (300 days)

• UV Lamp Reminder - OFF

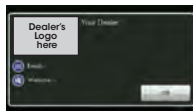
• Set Max UV Lamp Runtime (300 days)

• Humidity Pad Reminder - OFF

• Set Max Hum Runtime (300 days)

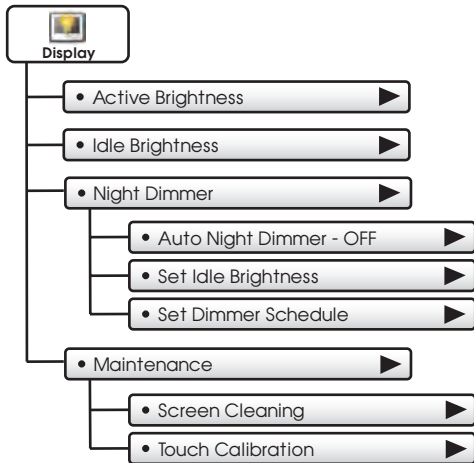
### • Service Information...

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.

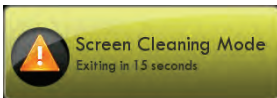
## Main Menu Buttons - Display

### • 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.

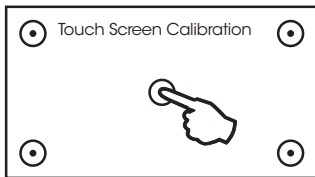


Use a soft cloth without solvents or abrasive cleaners

### • Touch Calibration ▶

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

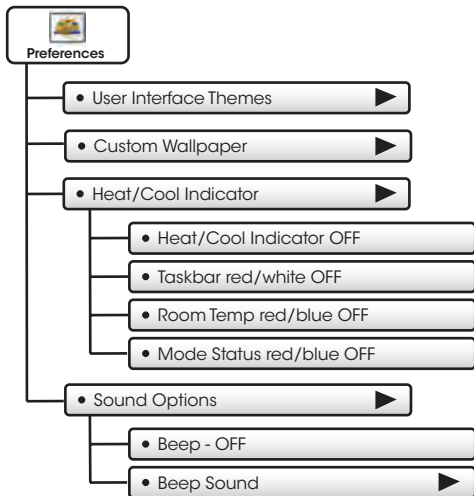
Touch and hold the center of the targets as they appear on the screen.



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 Sunset, the background will change to an evening scene and the moon will replace the sun. At Sunrise 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

- Sound Options ▶

- Beep - ON

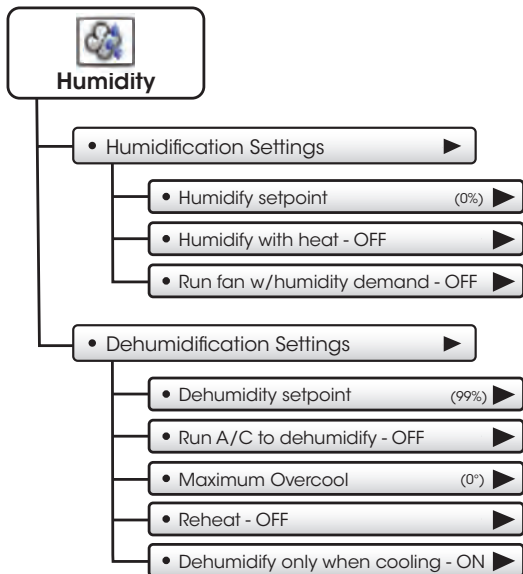
- Beep - OFF

Turn the beep sound on or off.

- Beep Sound (Beep 1) ▶

Choose from different beep sounds.

## Main Menu Buttons - Preferences



## Main Menu Buttons - Preferences



### 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 39.*

#### • Humidification Settings

• Humidify setpoint (0%) ▶

Adjust Humidify setpoint. (0% - 60%)

• Humidify with heat - OFF ▶

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

• Run fan - OFF ▶

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

#### • Dehumidification Settings

• Dehumidify setpoint ▶

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)

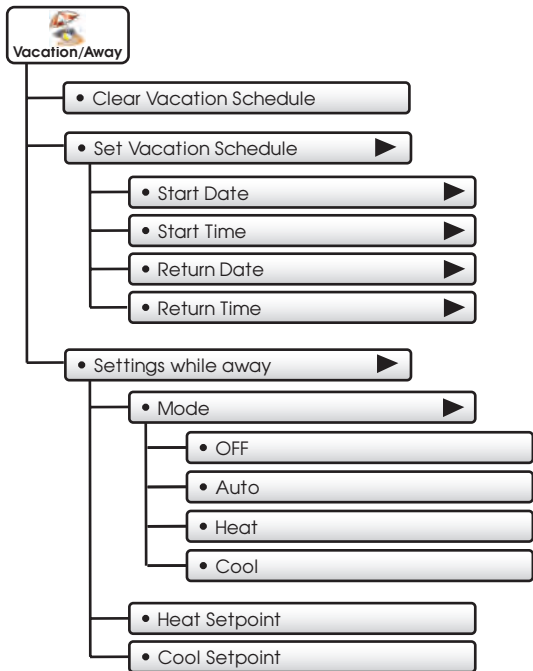
• Reheat - OFF ▶

This turns on electric strip heat during an A/C to dehumidify demand to help maintain desired room temperatures. (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.)

• Dehumidify only when cooling - ON ▶

Run dehumidification only when HVAC calls for A/C

## 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 ▶

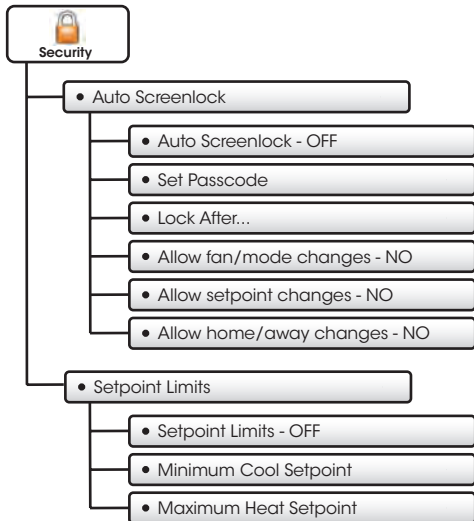
Select the desired Mode and setpoints to be used in Vacation/Away Mode.

• 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: 



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.

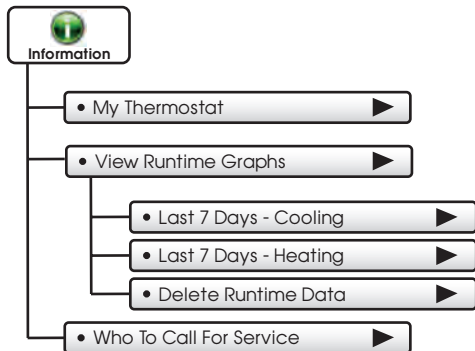
• Allow home/away changes - NO

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.

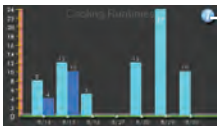
• My Thermostat ▶

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.

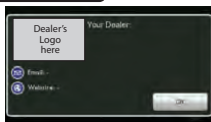
Press anywhere on the screen to return to the submenu.

• Delete Runtime Data ▶

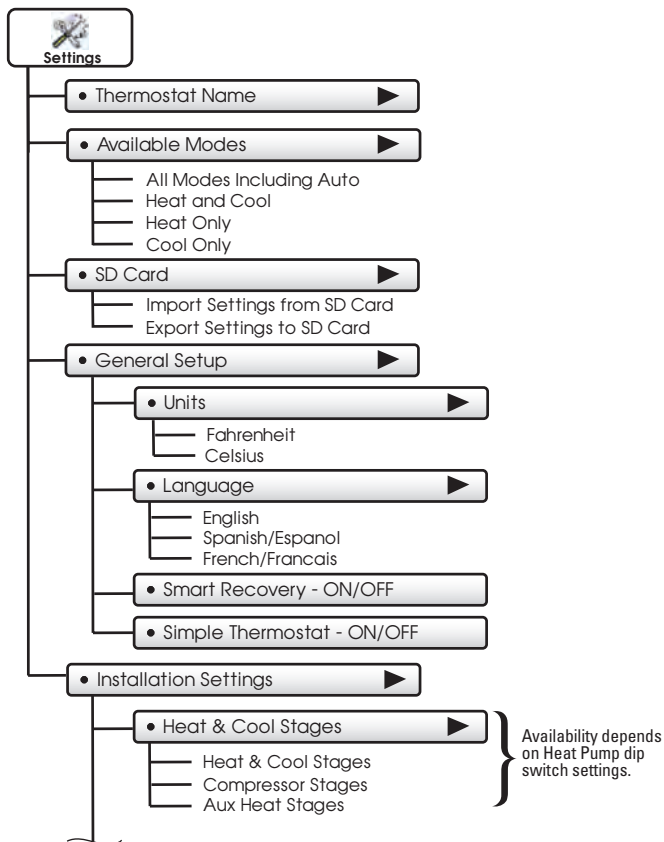
Press to delete your current equipment runtime information.

• 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



• Installation Settings ▶ (Continued)

• Timers & Deadbands ▶

- Cycles Per Hour
- Min Heat/Cool Difference
- Compressor Min Off Time
- 1st Stage Deadband
- 2nd Stage Deadband
  - 2nd Stage Deadband
  - 2nd Stage Timer
  - 2nd Stage Turnoff Point
    - Deadband
    - Setpoint
- 3rd Stage Deadband
  - 3rd Stage Deadband
  - 3rd Stage Timer
  - 3rd Stage Turnoff Point
    - Deadband
    - Setpoint
- 4th Stage Deadband
  - 4th Stage Deadband
  - 4th Stage Timer
  - 4th Stage Turnoff Point
    - Deadband
    - Setpoint

• Free Cooling ▶

- Free Cooling - On/Off
- Usable Outdoor Temp
- Mechanical Cooling? - Yes/No

(Continued next page)



# Main Menu Buttons - Settings



• Installation Settings ▶

(Continued)

• Heat Pump Settings ▶

Heat Pump Lockout - Enabled/Disabled

HP Lockout Outdoor Temp

Aux Heat Lockout - Enabled/Disabled

Aux Heat Lockout Temp

Dual Fuel Settings

Dual Fuel - On/Off

Changeover With Outdoor - On/Off

Adjust Balance Point

• AUX Output Settings

AUX Output Usage

AUX Output Polarity

• Fan Off Delay ▶

• Sensor Settings ▶

Control Sensor

Thermostat Sensor Only

Wired Sensor Only

Average Wired/Thermostat

Wired Sensor Use

Use as Outdoor Sensor

Use as Remote Sensor

Use as Supply Sensor

Use as Return Sensor

Calibrate Sensors

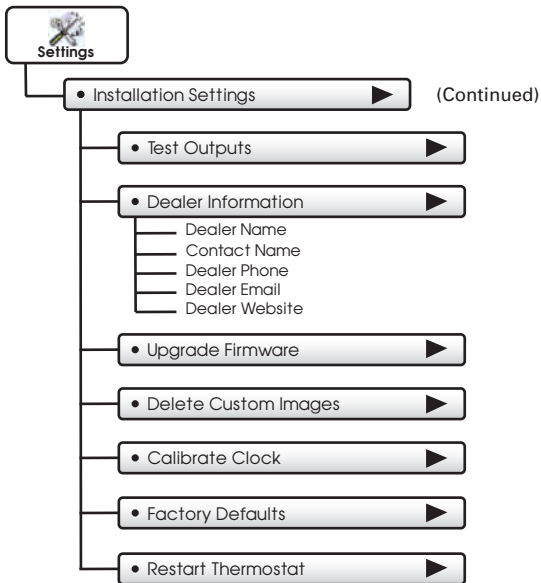
Thermostat

Wired Sensor

Humidity

(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 **First Alert Assistant** instructions for further details.

#### • Import Settings from SD Card ▶

Upload files from First Alert 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 Simple Thermostat 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 requires additional dampers and duct work to be installed. Additionally, the thermostat is wired in a different manner for this feature to function properly. Before enabling this feature, please make sure these steps are completed.

• Free Cooling - DISABLED

• Free Cooling - ENABLED ✓

Turns on Free Cooling.

• Usable Outdoor Temp (65°) ▶

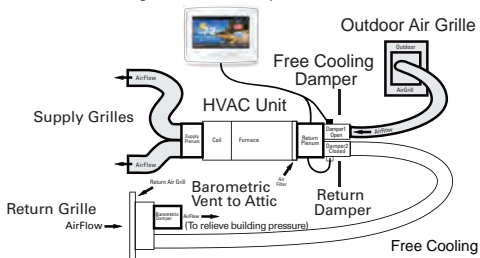
Free Cooling shuts off above this outdoor temperature. (40 - 80 degrees F)

• 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 53 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

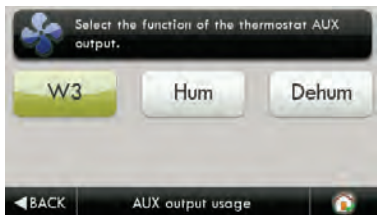
- Installation Settings ▶ (Continued)

- 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.

## Main Menu Buttons - Settings

• Installation Settings ▶ (Continued)

• 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.)

• 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

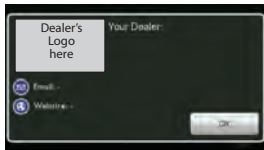
## Main Menu Buttons - Settings

### • 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



### • 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 ColorTouch 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.

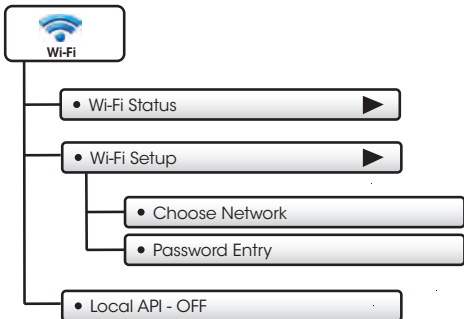
### • Factory Defaults ▶

Press to reset the thermostat back to the factory settings.

### • Restart Thermostat ▶

If needed, press here to restart the thermostat.

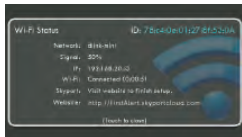
## Main Menu Buttons - Wi-Fi



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


### • Wi-Fi Status ▶

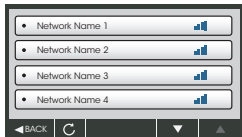
It is here that you will find helpful information regarding the connectivity status of your thermostat, including the thermostat's ID.



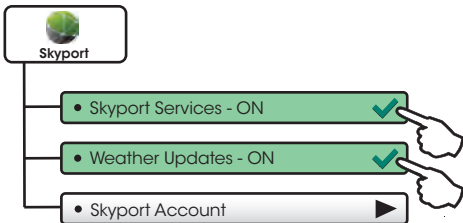
### • Wi-Fi Setup ▶

Choose your network from the list and enter the network password.

 If your network does not appear in the list, hit the refresh button.

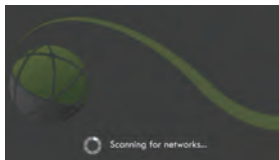


## Main Menu Buttons - Skyport



### • Skyport Account ▶

Enable the thermostat to connect to the Skyport Cloud for remote monitoring and control features. Upon pressing Skyport Account, the thermostat will search for available local networks with which to connect. After indentifying local access points, you will be prompted to choose a network, enter a password and other network options.



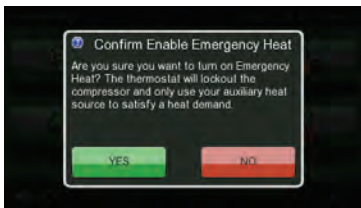
## Main Menu Buttons - Emergency Heat



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 Onelink Assistant

Onelink Assistant may be downloaded at no charge at:  
[www.firstalertthermostats.com](http://www.firstalertthermostats.com)



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

**The Onelink 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

## The Onelink 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.

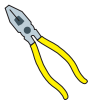


## Installation Instructions

### ***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
OUT -	Outdoor Sensor	SENSOR
OUT +	Outdoor Sensor	SENSOR

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

## Installation Instructions

***Before you go any further, determine what your existing wiring and equipment situation is.***

- A. If you have a **Heating only system** without Air Conditioning, the First Alert model sTHERM-500 will require **3 wires**: R (24Vac), C (24Vac) and W (Heat). Most systems that only have Heating use very simple thermostats that require 2 wires: the R (24Vac) and W (Heat). The THERM-500 thermostat requires 3 wires to supply power to the thermostat. In this case an Add-a-Wire accessory will not work and it will be necessary to install another wire for the C (24Vac) connection.
- B. If you have a **single stage fossil fuel heater with air conditioning**, the First Alert model THERM-500 will require **5 wires** for independent fan control. They are R (24Vac), C (24Vac), W (Heat), Y (Cooling), and G (Fan). You may connect only 4 wires, as instructed in the “Making 4 Wires Work When 5 Wires Are Required” section on page 50.

If there are only 4 wires present that are connected to the existing thermostat, there are at least 3 options available to connect the First Alert THERM-500:

1. Use the 4 wires as instructed in the “Making 4 Wires Work When 5 Wires Are Required” section on page 50, and note that the fan will only operate with a Heating or Cooling demand.
  2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 5 wires available.
  3. Purchase and install an Add-A-Wire accessory.
- C. If you have a **multi-stage HVAC system comprised of a fossil fuel heater with air conditioning**, the First Alert model THERM-500 will require the 5 wires mentioned above (R, C, W, Y, G) plus an additional wire for each additional stage of Heating or Cooling. You may reduce the 5 wire requirement to 4 if you give up independent fan control following the instruction in the “Making 4 Wires Work When 5 Wires Are Required” section on page 50, or use the optional Add-A-Wire accessory.

# Installation Instructions

- D. If you have a **heat pump without aux heat**, the First Alert model THERM-500 will require 5 wires: R (24Vac), C (24Vac), W1/O/B (Reversing Value), Y (1<sup>st</sup> Stage Compressor), and G (Fan).

If you are short 1 wire, there are at least 3 options available to connect the First Alert model THERM-500:

1. Use the available wires as instructed in the “Making 4 Wires Work When 5 Wires Are Required” section on page 50 and note that the fan will only operate with a Heating or Cooling demand.
2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 5 wires available.
3. Purchase and install an Add-A-Wire accessory.

- E. If you have a **heat pump with aux heat**, the First Alert model THERM-500 will require 6 wires: R (24Vac), C (24Vac), W1/O/B (Reversing Value), Y (1<sup>st</sup> Stage Compressor), W2 (Aux Heat), and G (Fan).

If you are short 1 wire, there are at least 3 options available to connect the First Alert model THERM-500:

1. Use the available wires as instructed in the “Making 5 Wires Work When 6 Wires Are Required” section on page 51 and note that the fan will only operate with a Heating or Cooling demand.
2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 6 wires available.
3. Purchase and install an Add-A-Wire accessory.

# Installation Instructions

## Making 4 Wires Work When 5 Wires Are Required

If you have **System B** from page 48 and you would like to install the First Alert model THERM-500 using only 4 wires, follow the directions below. You will need a screwdriver along with a 3" long piece of thermostat wire to use as a jumper:

1. Make sure the power is off.
2. Label and disconnect wires at the thermostat. Please note the color and corresponding wire designator with each color. *For example: The R wire is red and the W wire is white and so on.* You will need this information handy for the next step at the HVAC equipment.
3. At the HVAC equipment end of the thermostat wires (usually at the furnace), locate the terminals that the wires are attached to.
4. Remove the "G wire" from the terminal marked G.
5. Place the "G wire" on terminal C.
6. Place one end of the 3" long jumper on terminal G.
7. Place the other end of the 3" long jumper on terminal Y. Please note that there will be more than 1 wire on terminal Y.
8. When connecting the wires to the First Alert thermostat, note that the wire that was previously connected to the G terminal of the old thermostat will now be required to be connected to the C terminal on the First Alert thermostat. **All other wires** will be connected such that the connections on **each end of the individual wires match terminal designations**. *For example: Connect the yellow wire on the thermostat end to the Y terminal on the thermostat. The yellow wire will be connected to the Y terminal on the HVAC equipment end also.*

# Installation Instructions

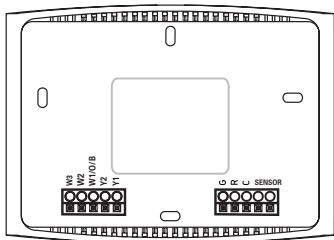
## Making 5 Wires Work When 6 Wires Are Required

If you have **System C or E** from pages 48-49 or any system that requires 6 wires, and you would like to install the First Alert model THERM-500 using only 5 wires, follow the directions below. You will need a screwdriver along with a 3" long piece of thermostat wire to use as a jumper:

1. Make sure the power is off.
2. Label and disconnect wires at the thermostat. Please note the color and corresponding wire designator with each color. *For example: The R wire is red and the W wire is white and so on.* You will need this information handy for the next step at the HVAC equipment.
3. At the HVAC equipment end of the thermostat wires (usually at the furnace), locate the terminals that the wires are attached to.
4. Remove the "G wire" from the terminal marked G.
5. Place the "G wire" on terminal C.
6. Place one end of the 3" long jumper on terminal G.
7. Place the other end of the 3" long jumper on terminal Y. Please note that there will be more than 1 wire on terminal Y.
8. When connecting the wires to the First Alert thermostat, note that the wire that was previously connected to the G terminal of the old thermostat will now be required to be connected to the C terminal on the First Alert thermostat. **All other wires** will be connected such that the connections on **each end of the individual wires match terminal designations.** *For example: Connect the yellow wire on the thermostat end to the Y terminal on the thermostat. The yellow wire will be connected to the Y terminal on the HVAC equipment end also.*

# Installation Instructions

## The THERM-500 Backplate



### NOTE:

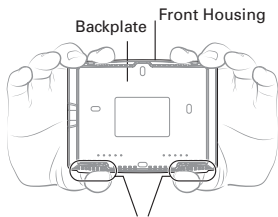
The backplate does not fully cover a full size vertical junction box. The ACC-WPLWH OneLink Wallplate or a single-gang, horizontally mounted junction box would be needed for that type of installation

### 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

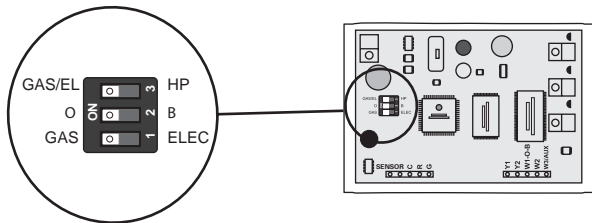


Pull out with thumbs in these areas

<b>W3</b>	3rd stage heat circuit
<b>W2</b>	2nd stage heat circuit
<b>W1/O/B</b>	1st stage heat circuit
<b>Y2</b>	2nd stage compressor relay
<b>Y1</b>	1st stage compressor relay
<b>G</b>	fan relay
<b>R</b>	24 VAC return
<b>C</b>	24 VAC common
<b>SENSOR</b>	remote/outdoor/supply/return sensor connections

# Installation Instructions

Dip switches are located on the back of the thermostat



**GAS/EL HP**    **GAS/EL HP**



OR



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.



OR



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.



OR



**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 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	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

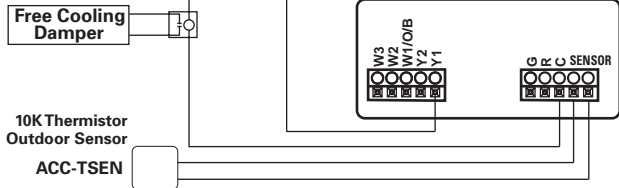


Number of Compressor Stages  
set to 2  
(see *Compressor Stages*, pg. 33)

Dual Fuel set to On  
(see *Dual Fuel Settings*, pg. 36)

### 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: ACC-TSEN Temperature Sensor** 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

## 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. *See Touch Calibration section of full user's manual (page 19).*
- **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 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 set-point 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

## PRODUCT LIMITED WARRANTY

BRK Brands, Inc., (“BRK”) the maker of Onelink™ and First Alert® brand products warrants that for a period of one year from the date of purchase (the “Warranty Period”), this product will be free from defects in material and workmanship. BRK, at its sole option, will repair or replace this product or any component of the product found to be defective during the Warranty Period. Replacement or repair will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. This warranty is valid for the original retail purchaser only from the date of initial retail purchase and is not transferable. In order to obtain warranty service, you must keep the original sales receipt and proof of purchase in the form of the UPC code from the package. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

## WARRANTY EXCLUSION

Parts and Labor: 1 year limited (warranted parts do not include bulbs, LEDs, and batteries) This warranty does not apply to bulbs, LEDs, and batteries supplied with or forming part of the product. This warranty is invalidated if non-BRK accessories are or have been used in or in connection with the product or in any modification or repair is made to the product. This warranty does not apply to defects or damages arising by use of the product in other than normal (including normal atmospheric, moisture and humidity) conditions or by installation or use of the product other than in strict accordance with the instructions contained in the product owner’s manual. This warranty does not apply to defects in or damages to the product caused by (i) negligent use of the product, (ii) misuse, abuse, neglect, alteration, repair or improper installation of the product, (iii) electrical short circuits or transients, (iv) usage not in accordance with product installation, (v) use of replacement parts not supplied by BRK, (vi) improper product maintenance, or (vii) accident, fire, flood or other Acts of God. This warranty does not cover the performance or functionality of any computer software included in the package with the product. BRK makes no warranty that the software provided with the product will function without interruption or otherwise be free of anomalies, errors, or “Bugs.” This warranty does not cover any costs relating to removal or replacement of any product or software installed on your computer. BRK reserves the right to make changes in design or to make additions to or improvements in its products without incurring any obligations to modify any product which has already been manufactured. BRK will make every effort to provide updates and fixes to its software via its website. This warranty does not cover any alteration or damage to any other software that may be or may become resident on the users system as a result of installing the software provided. This warranty is in lieu of other warranties, expressed or implied, and BRK neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the product. In no event shall BRK be liable for any special or consequential damages arising from the use of the product or arising from the malfunctioning or non-functioning of the product, or for any delay in the performance of this warranty due to any cause beyond its control. BRK does not make any claims or warranties of any kind whatsoever regarding the product’s potential, ability, or effectiveness to prevent, minimize, or in any way affect personal or property damage or injury. BRK is not responsible for any personal damage, loss, or theft related to the product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers, or distributors to the contrary are not authorized by BRK, and do not affect this provision of this warranty. BRK’s responsibility under this, or any other warranty, implied or expressed, is limited to repair, replacement or refund, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. BRK is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including but not limited to, loss profits, downtime, goodwill, damage to or replacement of equipment and property and any costs of recovering, reprogramming or reproducing any program or data stored in or used with a system containing the product accompanying software. BRK does not warrant the software will operate with any other software except that which is indicated. BRK cannot be responsible for characteristics of their party hardware or software which may affect the operation of the software included. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above Warranty Period. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province, or jurisdiction to jurisdiction.

## OBTAINING SERVICE

If service is required, do not return the product to your place of purchase. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 a.m. – 5:00 a.m. Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling. After contacting the Consumer Affairs Division and it is determined that the product should be returned for Warranty Service, please mail the product to: BRK Brands, Inc., 3901 Liberty Street Road, Aurora, IL 60504-8122.



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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.

Onelink Thermostat Full Users Manual Part Number:

M08-0536-002 12-14