

Smart Series™

Wall Heater Operations Manual

Models:	HT2024SS	240V, 2000W
	FSSWH2004	240V, 2000W
	HT1502SS	120V, 1500W
	FSSWH1502	120V, 1500W



Save This Manual

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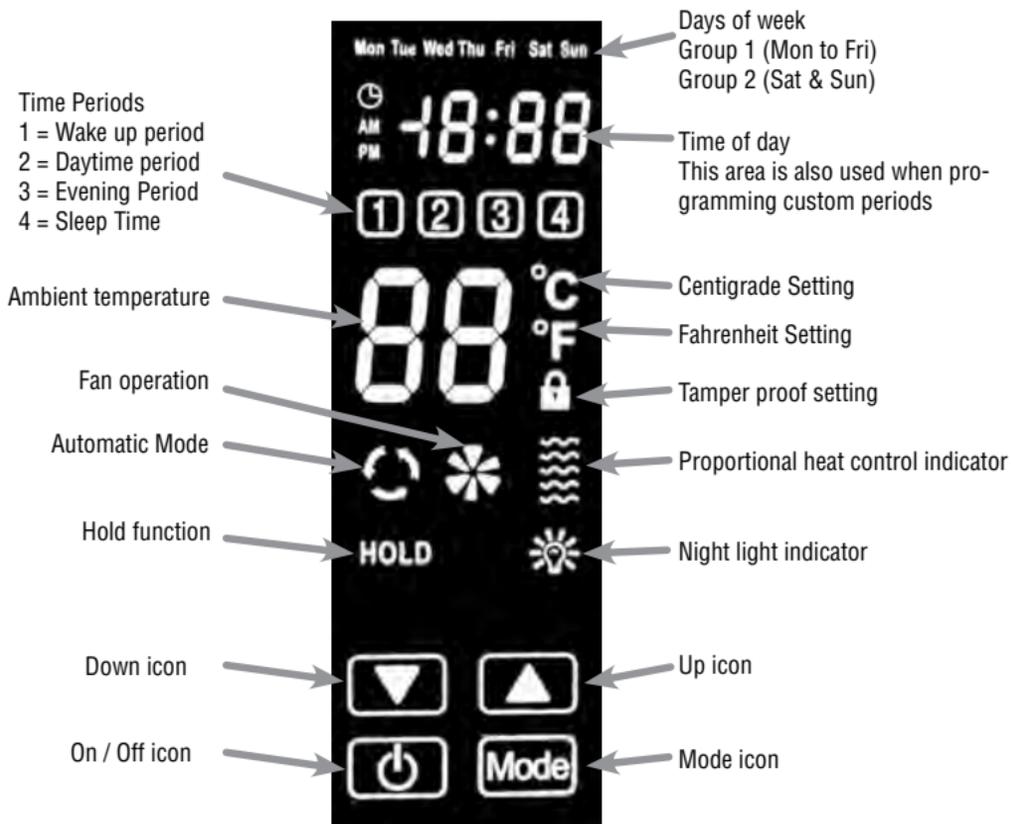
Touch Screen Control Board

OPERATIONS MANUAL

FEATURES THAT ARE FUNCTIONAL

1. 2" X 6" Electronic LED Display with blue backlight
 - Easy to read, in the dark or lighted areas
2. Touch Screen surface with soft signal beeps
3. Fahrenheit or Celsius readout
4. 7 day (5 and 2) programmable settings, up to 4 settings per day
5. Manual or Preset automatic mode selection
6. Proportional temperature control
7. Power Memory Function (time and operating mode)
8. Lock-out feature
9. Night Light
10. Built-in Safety feature to alert status of the thermal safety limit
11. Vanishing display readout (only ON/OFF and MODE icons appear)

THERMOSTAT DISPLAY



FUNCTIONALITY OF TOUCH SCREEN ICONS (For Touch Screen only)

Note: The four icons (touch pads) shown below control the setting and operation of the heater as indicated.



ON/OFF icon (in OFF position, this icon is orange and half the brightness).



Setup parameter DOWN icon



Setup parameter UP icon



Functional MODE icon

Caution: It is not necessary to push/press the icons to work. They are sensitive to touch, not pressure.

OPERATING INSTRUCTIONS

1. When the heating unit is first powered up, it will default to the OFF position. The power ON /OFF  icon in the lower left corner of the display will illuminate an orange color.

INITIAL SETUP INSTRUCTIONS (This setup is usually performed by the installer)

1. Touch ON /OFF  icon located in the lower left corner of the display. The Icon will illuminate a bright blue color, indicating the heater is ON.

Note: For all the following setup procedures, the display will automatically reset after a 30 second pause. If this occurs, start back at step 1 of the setup procedures.

SETUP DAY AND TIME PROCEDURE (This setup is usually performed by the installer)

1. Simultaneously touch and hold the UP  Icon and DOWN  Icon for 1.5 seconds. A beep will sound and the Day indicator at the top of the display will flash.
2. Using the UP  Icon or DOWN  Icon adjust to appropriate DAY of week.

SETUP DAY AND TIME PROCEDURE (This setup is usually performed by the installer)

3. Touch the MODE icon. AM / PM indicator will flash. Use the UP  Icon and DOWN  Icon to set appropriate time. AM / PM will change automatically once you pass 12:00.
4. Touch the MODE icon. MINUTES will flash. Use the UP  Icon and DOWN  Icon to set MINUTES to the appropriate time.
5. To lock in your settings, touch the MODE  icon.

Note: If this setup is performed by the installer, power down the display unit by touching the power ON / OFF  icon if no other programming will be done at this time.

HOMEOWNER SETUP INSTRUCTIONS

1. The digital display has default settings for the “Automatic Mode”. **See default settings below.** If these settings are satisfactory please skip to the next programming option, Celsius and Fahrenheit (page 12). If not, follow the steps below for “Customized Settings”.

AUTOMATIC MODE --- FACTORY SETTINGS

<u>PERIOD</u>	<u>TIME</u>	<u>SETPOINT</u>
Wake-UP	6:00 AM	70°F (21°C)
Daytime	8:00 AM	62°F (17°C)
Evening	6:00 PM	70°F (21°C)
Sleep Time	10:00 PM	62°F (17°C)

CUSTOMIZE YOUR SETTINGS

Note: You can customize ON and OFF times and temperature for two categories, Weekdays (MON - FRI) and Weekends (SAT & SUN). Each category has 4 settings.

 Wake-Up  Daytime  Evening  Sleep Time.

Please set a start time and temperature for each period.

1. To start setup, simultaneously touch and hold the ON / OFF icon  and  MODE icon for 1.5 seconds. MON through FRI will illuminate at the top of the display with the hour and Period 1. This is your wake-up time.
2. Touch MODE  icon to start programming the HOURS for Period 1 (Monday through Friday). Touch either the UP  Icon or the Down  Icon to set START time in hours.
3. Touch MODE  icon again to start programming the MINUTES for Period 1. (Wakeup) Touch either the UP  Icon or the DOWN  Icon to set Minutes.

CUSTOMIZE YOUR SETTINGS

4. Touch MODE  icon again to start programming the “Set Temperature Setting”(Wake Up). Touch UP  Icon or the Down  Icon to set temperature for Wake Up.
5. Touch MODE  icon to start programming the HOURS for Period 2 (**Daytime Period**). Touch either the UP  Icon or the DOWN  Icon to set START time in hours.
6. Touch MODE  icon again to start programming the MINUTES for Period 2 (**Daytime**). Touch either the UP  Icon or the DOWN  Icon to set MINUTES.
7. Touch MODE  icon again to start programming the “Set Temperature Setting” (**Day Time**). Touch UP  Icon or the DOWN  Icon to set TEMPERATURE. for day time.
8. Touch MODE  icon to start programming the HOURS for Period 3 (**Evening Period**). Touch either the UP  Icon or the DOWN  Icon to set START time in hours.
9. Touch MODE  icon again to start programming the MINUTES for Period 3 (**Evening**). Touch either the UP  Icon or the DOWN  Icon to set MINUTES.

CUSTOMIZE YOUR SETTINGS

10. Touch MODE  icon again to start programming the “Set Temperature Setting” (**Evening**). Use the UP  Icon or the Down  Icon to set temperature for evening.
11. Touch MODE  icon to start programming the HOURS for Period 4 (**Sleep Time Period**). Touch either the UP  Icon or the Down  Icon to set START time in hours.
12. Touch MODE  icon again to start programming the MINUTES for Period 4. (**Sleep Time**) Touch either the UP  Icon or the DOWN  Icon to set Minutes.
13. Touch MODE  icon again to start programming the “Set Temperature Setting” (**Sleep Time**). Use the UP  Icon or the Down  Icon to set temperature for sleep.
14. Touch MODE  icon to start programming the HOURS for Period (**Saturday and Sunday**). Touch either the UP  Icon or the Down  Icon to set START time in hours.
15. Repeat steps 3 through 14 for the weekend Periods.

CUSTOMIZE YOUR SETTINGS

16. Once the steps are completed above, Touch MODE  icon to set all the information programmed in above steps. The display is now back to Normal/Standard operation.

CELSIUS OR FAHRENHEIT INDICATION

1. Simultaneously touch and hold MODE  icon and DOWN Icon  icon for 1.5 seconds. Notice either the °C symbol or the °F symbol is illuminated. Touch both icons again to toggle back and forth from °C to °F.
2. Once decided, the display will lock in place after 30 seconds.

LOCKOUT FEATURE

1. Touch and hold ON/OFF  and DOWN  Icon simultaneously for 1.5 seconds. Notice that the Padlock symbol under the Celsius and Fahrenheit symbols will illuminate. Touch and hold both icons again to toggle Padlock symbol ON or Padlock symbol OFF.

Note: With the Padlock symbol ON, the unit is locked out and the “customized” settings cannot be changed.

2. Once decided, the display will lock in place after 30 seconds.

NIGHT LIGHT OPERATION (Also this will allow display to fully illuminate display)

1. Touch and hold MODE  Icon and UP  Icon simultaneously for 1.5 seconds. Notice that the “Light bulb” symbol will illuminate. Touch both icons again and the “Light Bulb” will not illuminate.
2. Once decided, the display will lock in place after 20 seconds.

Note: Without the NIGHT LIGHT Icon illuminated, the display will darken except the ON/OFF  and MODE  icons.

Tip: Touch any of the remote controller icons (except OFF) and all the lights will illuminate on the display, but will turn OFF again in 20-60 seconds. Instead of using the remote controller you can simply touch the MODE  icon once and get the same results.

HOLD OPTION OR VACATION MODE

1. Touch MODE  icon once to activate the display and keep touching until the HOLD Icon appears in bright blue and flashing. Touch the Up  Icon or the Down  Icon to set temperature back or up to your “Hold” temperature.
2. Once decided, the display will lock in place after 30 seconds or Touch MODE  icon.

REMOTE CONTROLLER

This tiny device is a remote means to control your heater from a distance no more than 12 feet away from the display. When pointing the device it must be in line of sight in order to operate correctly. There are only four icons that are active.

1. Power ON  button.
2. Power OFF  button.
3.  Button to lower the displayed temperature. (located bottom left)
4.  Button to raise the displayed temperature. (located bottom right)

REMOTE CONTROLLER

This remote is not intended to program your settings. It is mainly a device to conveniently change the temperature or turn your heater ON or OFF.

Note: Should you misplace your remote; the operation of your heater can be controlled at the heater display.

FAN ONLY OPERATION (NO HEAT)

This heater also has the option to use as a FAN ONLY device. Heat will not be produced, but the ventilator fan will operate to provide a nice gentle breeze to circulate the air.

1. Make sure your heat selection is low enough, or turn OFF the call for heat.
2. Touch the MODE  icon until you see the FAN icon illuminate and flash.
3. Touch the MODE  icon again to lock the setting in place.

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