

MAXIMUM COMFORT AND CONTROL IN HEATING

**TSSHC-3D-2/4-2-16.7A**

**Line Voltage, Proportional,  
Non-Programmable, Backlit Display**

**Line Voltage  
Thermostat**

- Digital Non-Programmable
- 2-Wire Non-Polarized
- For Electric Heating up to 4000W

5-Year  
Warranty





**Accuracy and Control.** The TSSHC-3D-2/4-2-16.7A thermostat is equipped with a TRIAC technology that provides ultimate accuracy and comfort and can maintain a set temperature to within 0.1°C and modulates ENERJOY® heater at 10% increments, keeping set temperature within 0.1°C, saving energy.

- Comfort & Convenience**
- Permanent Temperature Setpoint Retention During Power Loss
  - Simple Configuration Menu to Activate Optional Features
  - Soft-Touch Buttons
  - Resolution of 0.1°C (0.1°F)
  - Display Temperature Recalibration (+/-3°)

- Performance**
- Quiet TRIAC Switching Technology with Optional Proportional Control
  - Selectable Anticipation for Ultimate Performance
  - Celsius or Fahrenheit Compatible
  - Energy Savings
  - Standby Switch
  - 100% Silent Operation

**DESCRIPTION**

The TSSHC-3D-2/4-2-16.7A thermostat has been designed to control electric heating systems such as radiant ceilings, baseboard heaters, radiant floors, and convectors.

The adaptor plate is used to offset the thermostat when an obstruction prevents the thermostat from being mounted directly to the junction box.

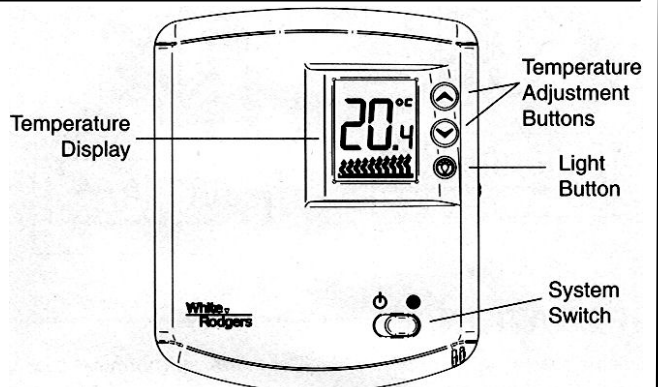
The Thermostat cannot be used with the following:

- a resistive load under 2 A
- a resistive load over 16.7 A
- systems driven by a contactor or relay (inductive load)
- central heating systems

Parts Supplied:

- One (1) Thermostat
- Two (2) 6-32 pan head screws

Available Accessories:  
Adaptor Plate



Dimensions  
4.2"W x 5"H x 1.25" D

## SPECIFICATIONS

Supply: 100/120/200/208/240 VAC, 50/60 Hz

Minimum Load: 2A (resistive only)

500W @ 240VAC

250W @ 120VAC

200W @ 100VAC

Maximum Load: 16.7A (resistive only)

4000W @ 240VAC

2590W @ 208VAC

2395W @ 200VAC

2000W @ 120VAC

SYSTEMS:

Radiant Ceilings

Radiant Floors

Baseboard heater

Convectors

Fan-forced

heaters

Setpoint range: 7°C to 32°C (45°F to 90°F)

Display Range: 0°C to 37°C (32°F to 99°F)

Display Resolution: 0.1°C (1°F)

Shipping: -20°C to 50°C (-4°F to 120°F)



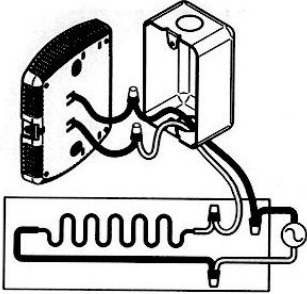
Approval:

Operating Humidity Range: 85% non-condensing maximum

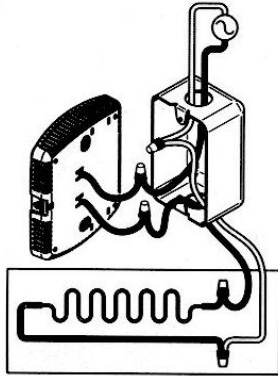
For Additional Information: Visit [www.sshcinc.com](http://www.sshcinc.com)

## INSTALLATION

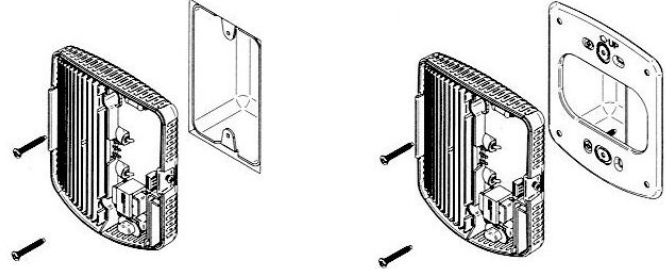
### 2 Wire Installation



### 4 Wire Installation



Align and affix the base to the electrical junction box or the optional adapter plate using two 6-32 pan head screws.



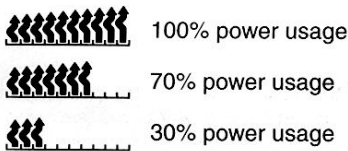
Place the thermostat cover back onto the base hinge and close cover. Install screw to secure cover.

## OPERATION

Slide thermostat switch to ● position. The thermostat normally displays the actual ambient temperature.



The thermostat displays the percentage of power usage (in "PC" mode only) required to maintain the desired temperature. For example:



To view the setpoint temperature, press the ▲ or ▼ button once. The ● icon appears and the thermostat displays the setpoint temperature. To change the setpoint, press the ▲ or ▼ button to raise or lower the temperature until the desired setpoint is reached.



To turn the backlight on, press the ● button, or the ▲ or ▼ button once.

To change the thermostat installer configuration, press and hold the ● button for 5 seconds. The features and (defaults) are selected by pressing the ● button once to scan the installer configuration selections. The defaults are changed with the ▲ or ▼ button. (Please refer to the following table for the selections of your choice.)

	Default	Options
Backlight	LO (On)	LF (Off)
Display Reading Adjustment*	H0.0	L3.0 to H3.0
Proportional Control**	PO (On)	PF (Off)
Anticipation***	AL(2000-4000 W)	AS (500-2000 W)
Temperature Scale	SC (Celsius)	SF (Fahrenheit)

\* Adjusts room temperature display higher or lower to agree with a previous thermostat.

\*\* Proportional Control allows the thermostat to modulate depending on power usage.

\*\*\*Adjusts your thermostat anticipation based on the room and baseboard heater size, e.g., in a room with a 3500 W baseboard heater, set your thermostat anticipation to AL.

The thermostat will save the setpoint temperature and installer configuration selections permanently, even after power outages.

To reset the thermostat, press the ▲, ▼, and ● buttons simultaneously.

To suspend the thermostat operation, slide the thermostat switch to the ○ position. In this position, the thermostat still has power but the display is turned off.

