

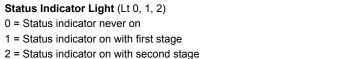
- WARNING !: Always turn off power at the main power supply before installing, cleaning,
- This thermostat is for 24 VAC applications only; do not use on voltages over 30 VAC
- Do not short across terminals of gas valve or system control to test operation; this will damage your thermostat and void your warranty
- All wiring must conform to local and national electrical and building codes
- Do not use air conditioning when the outdoor temperature is below 50 degrees; this can damage your A/C system and cause personal injuries
- · Use this thermostat only as described in this manual

The SC2311L thermostat is configurable for different systems. The configuration directly effects the outputs

Use the output chart to correctly configure and wire the thermostat to your system.

- mode.

- 2. Simultaneously hold the LEFT and RIGHT buttons in for 5 seconds while the SC2311L is in OFF
- 3. Press the up or down button to change settings within each screen.
- 4. Press the **RIGHT** button to advance to the next screen.
- ** Note: The LEFT button will return you to the previous screen.
- 5. To exit configuration mode, slide the Mode switch to Heat or Cool.



- 2 = Status indicator on with second stage
- Press the up or down button to select.

* Note: Red light indicates heating cycle and green light indicates cooling cycle.

Slide the Mode switch to Heat or Cool to exit configuration.

Testing the Thermostat

Once the thermostat is installed, it should be thoroughly tested.

CAUTION!: Do not energize the air conditioning system when the outdoor temperature is below 50 degrees. It can result in equipment damage or personal injury.

Cool Test

- 1. Slide **Mode** switch to **Cool** mode.
- 2. Adjust set temperature so it is 5 degrees below room temperature.
- 3. Air conditioning should come on within a few seconds.
- 4. Adjust the set temperature 2 degrees above the room temperature and the A/C should turn off There may be a fan delay on your system.
- ** Note: There is a four minute time delay to protect the compressor after it turns off. To temporarily bypass the four minute delay, slide the **Mode** switch to **OFF** for 2 seconds and then back to Cool.

Heat Test

- 1. Slide Mode switch to Heat mode.
- 2. Adjust the set temperature so it is 5 degrees above the room temperature.
- 3. Heat should come on within a few seconds.
- 4. Adjust the set temperature so it is 2 degrees below the room temperature and the heat should turn off. There may be a fan delay on your system.
- * Note: There is a four minute time delay to protect the compressor after it turns off. To temporarily bypass the four minute delay, slide the Mode switch to OFF for 2 seconds and then back to Heat.

Fan Test

1. Slide Fan switch to On position.		3. Slide Fan switch to Auto position.	
2. Indoor fan turns on.		4. Indoor fan turns off.	
	Auto 😫 On		Auto 😫 On

Mode of Operation

The SC2311L is a two-stage heat, one-stage cool thermostat. It functions with air conditioning, heat pumps, gas, oil or electric heat.

The thermostat activates the first stage heat when the room temperature is below the heat set temperature (by the differential temperature). Second stage heat will be activated if the room temperature continues to drop. The heat outputs are staged off as the room temperature increases. For heat pump systems, the thermostat will not let the compressor come on for four minutes after it turns off. This protects your compressor.

When the room temperature is greater than the cool set temperature (by the differential temperature), the cooling device is activated. The cool output is turned off as the room temperature drops. The thermostat will not let the compressor come on for four minutes after it turns off. This protects your compressor.

The SC2311L has the following operating modes: OFF, Heat, Emergency Heat, and Cool. In OFF mode, the thermostat will not turn on heating or cooling devices. In the Heat mode, the thermostat controls the heating system. For heat pump systems, Emergency Heat mode is used to bypass the compressor (only backup heat operates). In the Cool mode, the thermostat controls the cooling system. The indoor fan can be turned on in all operating modes using the Fan switch.

Operating Modes

These are the possible operating modes of the SC2311L.

Off Mode

In off mode, the thermostat will not turn on the heating or cooling appliances.

- ** Note 2: The indoor fan can be activated in every mode by sliding the Auto/On fan to the On position.
- ** Note 2: Off mode in used to enter the configuration setup (by pressing LEFT and RIGHT simultaneously for 5 seconds).

Cool Mode

In cool mode, the thermostat controls the cooling system.

There is a four minute time delay after the compressor turns off. This protects the compressor.

Heat Mode

In heat mode, the thermostat controls the heating system.

For heat pumps, there is a four minute time delay after the compressor turns off. This protects the compressor

Emergency Heat Mode (Heat pump systems only)

In emergency heat mode, the heat pump system will be disabled and auxiliary heat will become the primary source of heat.

- ENTER Emergency heat mode by pressing the up button for ten seconds while in heat mode. "EH" will then display on the screen.
- EXIT Emergency heat mode by pressing the up button for ten seconds. "EH" will not display on the screen when you exit emergency heat mode.

The SC2311L also exits emergency heat mode when the mode switch is moved to Cool

Lockout Feature

The SC2311L has a button lockout feature so the temperature adjustment is prohibited or limited. Select the appropriate lockout from Configuration Mode Settings (Step 7) of this auide.

To activate the LOC feature:

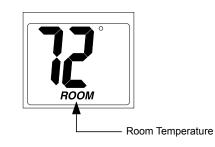
Cool Off Hea

Cool Off Heat

- 1. Simultaneously press the LEFT, RIGHT and UP buttons for 10 seconds.
- 2. LOC will display and the lockout function will be enabled.
- To deactivate the LOC feature, repeat steps 1 and 2 above.

Starting the Thermostat

- CAUTION 1: Do not use air conditioning when the outdoor temperature is below 50 degrees. This can damage your air conditioning system and cause personal injuries.
- 1. Move the Fan Auto/On switch to the Auto position.
- 2. Move the Cool/Off/Heat switch to Cool or Heat, depending on the season.



SimpleSet[™] Field Programming

This feature is used for transferring the configuration settings from the master to the target thermostat. All thermostats for a job can be mounted and powered up. Configure one thermostat. This will be the master. The master will be used to copy the configuration to the rest of the thermostats. Preparing the master to Send:

- 1. The master must be powered by 24 VAC.
- 2. Verify the master thermostat is in OFF mode. Slide system switch to center position
- 3. Remove cover of the master thermostat by gently pulling near one of the corners at the top of the thermostat.
- 4. Press the up and down buttons and LEFT switch simultaneously for 5 seconds.
- 5. The **OUT** screen displays indicating the master thermostat is ready to transfer data.
- ** Note: Press the up and down buttons and LEFT switch simultaneously for 5 seconds to exit from data transfer mode and to return the master to the OFF mode.
- 6. Connect the master to the target using the 3 wire connector. Attach one end to the Master's FP pins and the other end to the Target's FP pins.
- ** Note: Target thermostat must be powered by 24 VAC for field programming to occur.

When the connection has been made correctly, the master thermostat will power up and the target will count from 6 down to 1. It will then display LOC confirming the data has been saved in memory.

When all target thermostats have been completed, reinstall the master thermostat Press the up and down buttons and the LEFT switch simultaneously for 5 seconds to exit from the data transfer mode and to return the master thermostat to the **OFF** mode.

Troubleshooting

Symptom	Remedy
No display	Check for 24 VAC at thermostat; display is blank when 24 VAC is not present
System fan does not come on properly	Verify wiring is correct, check heat source configuration settings (see Configuration Mode Setting 5)
All thermostat buttons are inoperative	Verify 24 VAC is present; unit locks out when 24 VAC is not present
No response with first button press	First button press activates backlight only
Thermostat turns on and off too frequently	Adjust temperature differential (see Configuration Mode Setting 2)
Fan runs continuously	Slide FAN switch to auto to turn fan off
Room temperature is not correct	Calibrate thermostat (see Configuration Mode Setting 10)
LOC displays when any button is pressed	Thermostat has the button lockout function activated (see Lockout Feature, and Configuration Mode Setting 7)
Heat or Cool not coming on	Verify wiring is correct, verify configuration settings are correct
Problem not listed above	Press Reset button once*

* Reset Button Function: Configuration settings are unchanged and display is refreshed.





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ONE-YEAR LIMITED WARRANTY

The Seller warrants its products against defects in material or workmanship for a period of one (1) year from the date of manufacture. The liability of the Seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of the goods which are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof which have been subjected to misuse including any use or application in violation of the Seller's instructions, neglect, tampering, improper storage, incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the warranty, the Buyer shall: 1) Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as requested by the Seller, 2) Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are determined by Seller to be non-defective are subject to a \$30.00 per hour inspection fee. This warranty constitutes the Seller's sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit fo any particular purpose.



Patent No. - Design: 424,953 Patent No. - Thermal Intrusion Barrier: 6,597,275 Patent Pending - SimpleSet[™] Target Programming Technology

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