



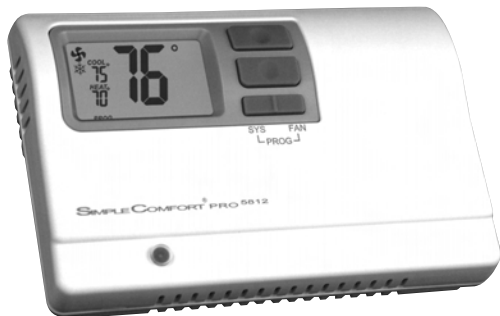
Made in USA

SC 5812

Programmable Electronic Thermostat

3 Heat/2 Cool
Auto Changeover
Hardwire

- 7-Day, 5-2-Day or 5-1-1-Day Programmable
- Configurable
- 3-Stage Heat/2-Stage Cool Systems
- 3-Stage Heat Pump Systems
- Large Display With Backlight
- Selectable Fahrenheit or Celsius
- Compatible with Gas, Oil, or Electric
- Dual Fuel Compatible
- SimpleSet™ Field Programming
- Status Indicator Light
- Relay Outputs
(minimum voltage drop in thermostat)
- Remote Sensor Compatible
- Ideally Suited for:
 - Residential (New Construction/Replacement)
 - Light Commercial



Installation, Operation & Application Guide

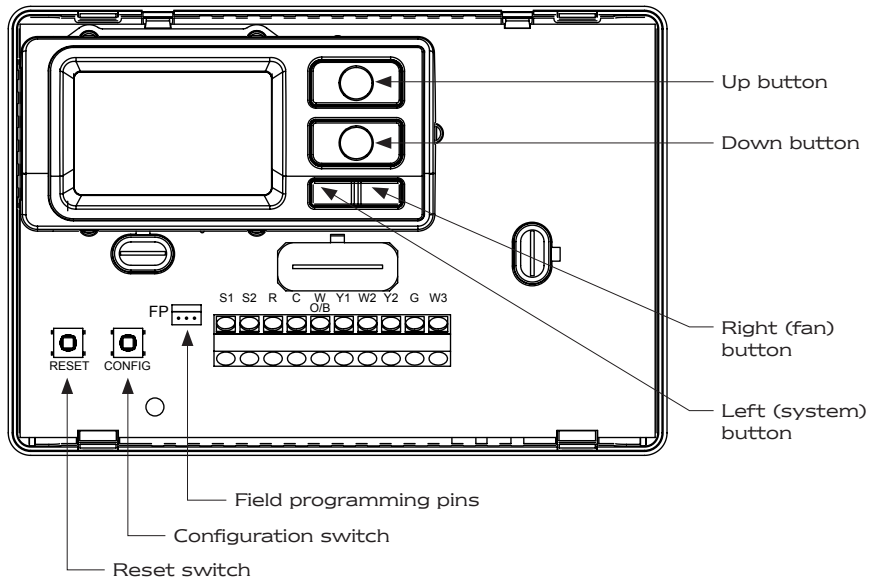
For more information on our complete range of American-made products – plus wiring diagrams, troubleshooting tips and more, visit us at www.icmcontrols.com

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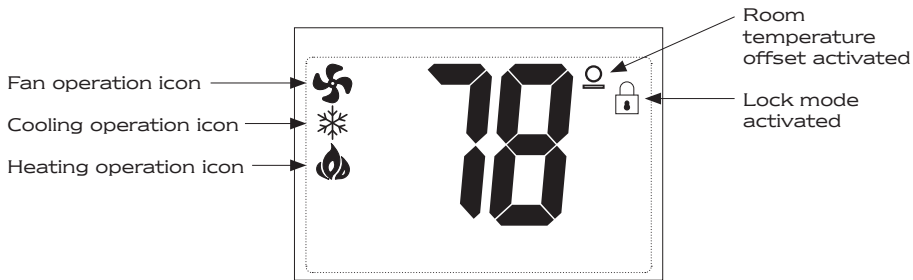
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Parts Diagram



Icon Descriptions



Specifications

Electrical rating: • 24 VAC (18-30 VAC)

- 1 amp maximum per terminal
- 3 amp maximum total load

Temperature control range: 45°F to 90°F (7°C to 32°C) **Accuracy:** $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)

System configurations: 3-stage heat, 2-stage cool, heat pump, gas, oil, electric

Timing: Anti-short Cycle: 4 minutes (bypass anti-short cycle delay by returning to OFF mode for 5 seconds)

Backlight Operation: 10 seconds

Terminations: S1, S2, R, C, W/O/B, Y1, W2, Y2, G, W3

Important Safety Information

WARNING! *Always turn off power at the main power supply before installing, cleaning, or removing thermostat.*

- 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

Package Contents/Tools Required

Package includes: SC5812 thermostat on base, thermostat cover, wiring labels, screws and wall anchors, Installation, Operation and Application Guide

Tools required for installation: Drill with 3/16" bit, hammer, screwdriver

To Remove Existing Thermostat



ELECTRICAL SHOCK HAZARD – *Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.*

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. Remove cover of old thermostat. This should expose the wires.
3. Label the existing wires with the enclosed wire labels before removing wires.
4. After labeling wires, remove wires from wire terminals.
5. Remove existing thermostat base from wall.
6. Refer to the following section for instructions on how to install this thermostat.

To Install Thermostat



ELECTRICAL SHOCK HAZARD – Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.

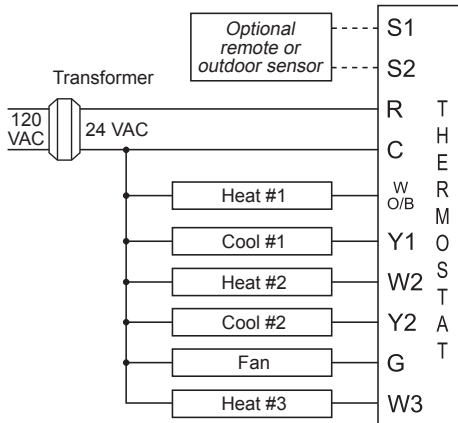
IMPORTANT: Thermostat installation must conform to local and national building and electrical codes and ordinances.

**** Note:** Mount the thermostat about five feet above the floor. Do not mount the thermostat on an outside wall, in direct sunlight, behind a door, or in an area affected by a vent or duct.

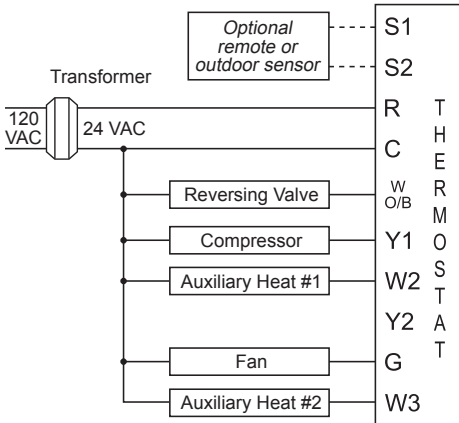
1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. To remove cover, pull gently at the seam at the top.
3. Put thermostat base against the wall where you plan to mount it (Be sure wires will feed through the wire opening in the base of the thermostat).
4. Mark the placement of the mounting holes.
5. Set thermostat base and cover away from working area.
6. Using a 3/16" drill bit, drill holes in the places you have marked for mounting.
7. Use a hammer to tap supplied anchors in mounting holes.
8. Align thermostat base with mounting holes and feed the control wires through slit in thermal intrusion barrier and into wire opening.
9. Use supplied screws to mount thermostat base to wall.
10. Insert stripped, labeled wires in matching wire terminals.
CAUTION!: Be sure exposed portion of wires does not touch other wires.
11. Gently tug wire to be sure of proper connection. Double check that each wire is connected to the proper terminal.
12. Turn on power to the system at the main service panel.
13. Configure thermostat (see Page 13) to match the type of system you have.
14. Replace cover on thermostat by snapping it in place.
15. Test thermostat operation as described in "Testing the Thermostat" (Page 24).

Wiring Diagrams

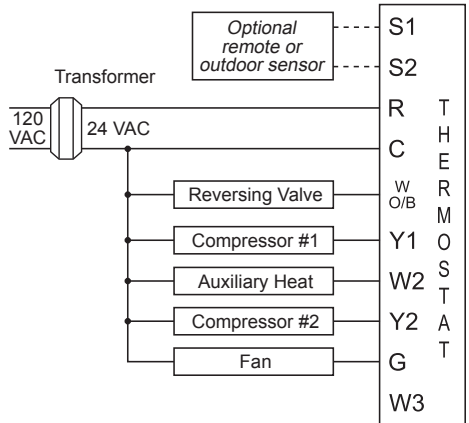
Heat/Cool Systems



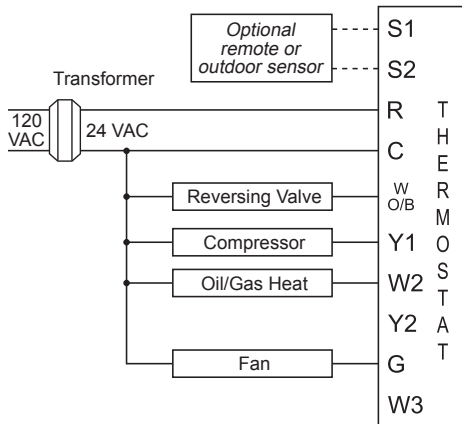
Single Compressor heat pump with electric backup



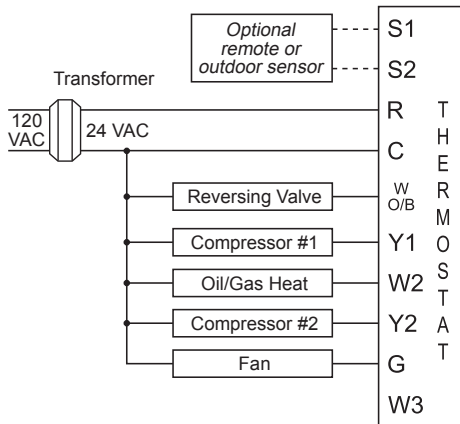
Dual Compressor heat pump with electric backup



Single Compressor heat pump with gas/oil backup



Dual Compressor heat pump with gas/oil backup



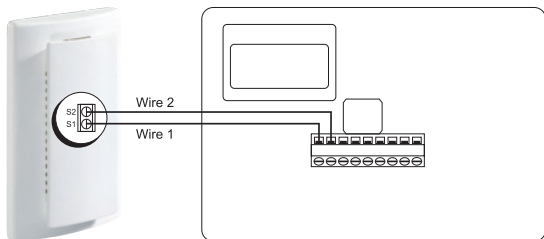
Remote Sensor Installation (Optional)

Terminals S1 and S2 can be used for an outdoor sensor or for an indoor remote sensor.

The outdoor sensor is used to change system operation based on the outdoor temperature. It can be used for heat pumps with gas/oil backup or heat pumps with electric backup.

The indoor remote sensor is used to read the indoor temperature in a different location. This is beneficial when the thermostat is not mounted in the ideal location.

1. Remove cover from remote sensor housing.
2. Select an appropriate location for mounting the remote sensor.
3. Mount remote sensor unit using hardware provided.
4. Install two strand shielded wire between remote sensor and thermostat. Shielded wire is recommended.
Do not run remote sensor wire in conduit with other wires.
 - **Wire 1** should run between the S1 terminal on the thermostat and the S1 terminal on the remote sensor
 - **Wire 2** should run between the S2 terminal on the thermostat and the S2 terminal on the remote sensor
 - Connect the shielding of the wire to the S2 terminal on the thermostat
5. Configure the thermostat to operate with the remote indoor sensor (see Configuration Mode setting 17, Page 17) or use it for an outdoor sensor for heat pump systems (see Page 9).



Remote Sensor: (Shown: Optional ICM ACC-RT103 Remote Indoor Sensor; for outdoor sensor, order ACC-OD103.)

**** Note:**

Remote or outdoor sensor reading can be displayed by simultaneously pressing the **Down** and **SYS** buttons.

Terminal Designator Descriptions

R – 24 VAC hot

C – 24 VAC common

W1/O/B – Configurable

W1 – 1st stage heat for non-heat pump systems

O – cool active reversing valve

B – heat active reversing valve

Y1 – 1st stage cool, 1st stage heat for heat pumps

W2 – 2nd stage heat for 1 compressor heat pump and non-hp, 3rd stage heat for 2 compressor heat pump systems

Y2 – 2nd stage cool for 2 compressor systems, 2nd stage heat for 2 compressor heat pump systems

G – Fan

W3 – 3rd stage heat for non-hp systems and 1 compressor heat pump systems

SC5812 Output Chart

	1 ST Cool	2 ND Cool	1 ST Heat	2 ND Heat	3 RD Heat
Heat/Cool	Y1,G	Y1,Y2,G	W1,G*	W1,W2,G*	W1,W2,W3,G*
Heat Pump (One Compressor)	Y1,G,O	Y1,G,O	Y1,G,B	Y1,W2,G,B	Y1,W2,W3,G,B
Heat Pump (Two Compressors)	Y1,G,O	Y1,Y2,G,O	Y1,G,B	Y1,Y2,G,B	Y1,Y2,W2,G,B
Dual Fuel (One Compressor)	Y1,G,O	Y1,G,O	Y1,G,B	W2	W2,W3
Dual Fuel (Two Compressors)	Y1,G,O	Y1,Y2,G,O	Y1,G,B	Y1,Y2,G,B	W2
Emergency Heat (Heat Pump Only)	N/A	N/A	W2,G	W2,W3,G	N/A

* G not energized when configured as a gas/oil system

The SC5812 thermostat is configurable for all systems. The configuration directly affects the outputs.

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

Configuration Mode

The configuration mode is used to set the SC5812 to match your heating/cooling system. The SC5812 functions with heat pump, air conditioning, gas, oil or electric heat systems.

To configure the SC5812, perform the following steps:

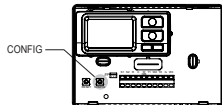
1. Verify the SC5812 is in the **OFF** mode.

Press the **SYS** (left) button until off mode displays.

2. Remove the cover of the thermostat by gently pulling near one of the corners at the top of the thermostat.

**** Note:** Do not force open. Use a small coin or slotted screwdriver to release tabs if necessary.

3. Press the **CONFIG** button for 1 second while the SC5812 is in **OFF** mode.

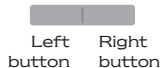


Press the **up** or **down** button to change settings within each screen.



Press the **right** button to advance to the next screen.

**** Note:** Pressing the **left** button will return you to the previous screen.



To exit configuration mode, press the **CONFIG** switch for 1 second.

Configuration Mode Settings

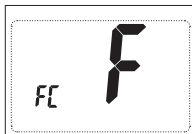
The setup screens for Configuration Mode are as follows:

1. **Temperature Scale** (F or C)

Choose Fahrenheit or Celsius.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



2. **1st Stage Temperature Differential** (1°F to 5°F) (0.5°C to 2.5°C)

Set the number of degrees between your “setpoint” temperature and your “turn on” temperature.

Press the **up** or **down** button to set differential value.

Press the **right** button to advance to the next screen.



3. **2nd Stage Temperature Differential** (1°F to 5°F) (0.5°C to 2.5°C)

Set the number of degrees between when stage 1 turns on and when stage 2 turns on.

Press the **up** or **down** button to set differential value.

Press the **right** button to advance to the next screen.



4. **3rd Stage Temperature Differential** (1°F to 5°F) (0.5°C to 2.5°C)

Set the number of degrees between when stage 2 turns on and when stage 3 turns on.

Press the **up** or **down** button to set differential value.

Press the **right** button to advance to the next screen.



5. Staged Off Outputs

Select whether the outputs for heating and cooling are staged off independently or are satisfied simultaneously.

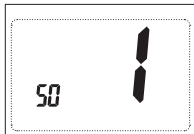
1 = outputs staged off independently

0 = outputs off simultaneously (best for dual fuel)

** **Note:** For 2 compressor heat pumps and multi-stage gas/oil systems, stage 3 is staged off independently when **SO** is set to **0**.

Press the **up** or **down** button to set.

Press the **right** button to advance to the next screen.



6. Minimum Deadband (1°F to 9°F) (1°C to 5°C)

Set the minimum separation between heat setpoint and cool setpoint in **Auto Changeover** Mode.

Press the **up** or **down** button to set deadband value.

Press the **right** button to advance to the next screen.

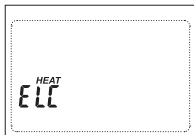


7. **System** – Set for heat pump, non-heat pump, reversing valve operation and number of compressors in your system.

Choose	System	Reversing Valve Active	Number of Compressors or Compressor Stages	Type of Heat
Heat Pump	HP	O	1	
	HP	b	1	
	HP	O	2	
	HP	b	2	
Non-Heat Pump	Heat			Gas
	Heat			Electric

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



8. **Dual Fuel System**

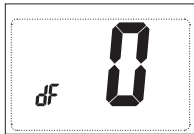
Appears only if heat pump is selected.

1 = Heat pump with gas/oil furnace backup

0 = Heat pump with electric backup

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



9. **Outdoor Upper Setpoint** (50°F to 25°F, – –) (10°C to -4.0°C, – –)

Appears only if heat pump is selected.

**** Note:** See chart on Page 15 for more information

For Heat Pumps With Gas/Oil Backup

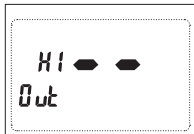
When the ambient temperature is below the selected temperature, the heat pump will be locked out and only the furnace will operate.

For Heat Pumps With Electric Backup

When the ambient temperature is above the selected temperature, the heat pump will operate and electric backup will be locked out.

Press the **up** or **down** button to select temperature.

Press the **right** button to advance to the next screen.



10. **Outdoor Lower Setpoint** (select – – to disable)

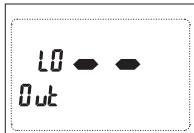
Appears only for heat pump with electric backup with outdoor upper setpoint enabled.

**** Note:** See chart on Page 15 for more information

When the ambient temperature is below the selected temperature, heat pump is locked out and only electric heat will operate

Press the **up** or **down** button to select temperature.

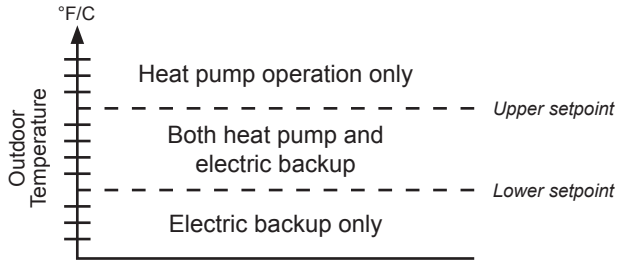
Press the **right** button to advance to the next screen.



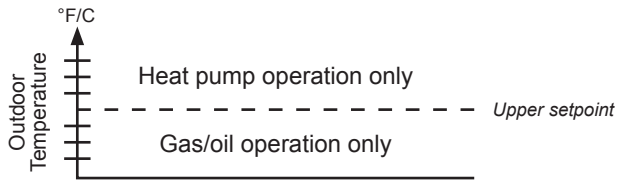
See "Remote Sensor When Used as Outdoor Sensor" diagram on next page.

Remote Sensor When Used as Outdoor Sensor

Heat Pump with Electric Backup



Heat Pump with Gas/Oil Backup



11. **Auxiliary Delay ON** (0-30 minutes)

Set the delay time in minutes for auxiliary heat to be locked out after a call for second stage. This extra savings feature is used to temporarily lock out auxiliary heat devices, allowing just heat pump to try to satisfy heat call.

Press the up or down button to select.

Press the **right** button to advance to the next screen.



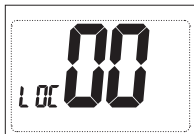
12. **Lockout** (0-8°, NITE, COOL-HEAT)

Select the number of degrees set temperature can be changed during keypad lockout or select to lockout during **NITE** period only. **COOL-HEAT** lockout allows adjustment of the set temperatures to the maximum heat set temperature selected in Step 13 and minimum cool set temperature selected in Step 14.

**** Note:** The mode cannot be changed when the thermostat is locked.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



13. **Maximum Heat Setpoint** (45°F to 90°F) (7°C to 32°C)

Adjust to control the maximum heat set temperature allowed.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



14. **Minimum Cool Setpoint** (45°F to 90°F) (7°C to 32°C)

Adjust to control the minimum cool set temperature allowed.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



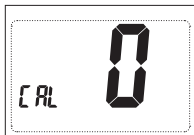
15. **Room Temperature Offset** (+9°F to -9°F) (+4.5°C to -4.5°C)

Adjust to calibrate displayed room temperature to match actual room temperature.

**** Note:** When not set to 0, 0 will display

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.

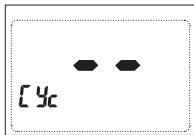


16. **Maximum Cycles Allowed Per Hour** (- -, 2-6)

- - = as many as needed, 2-6 = maximum cycles/hour

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



17. **Temperature Sensor** (1-4)

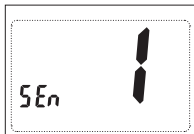
Appears for non-heat pump systems and heat pumps without an outdoor sensor.

1. Only on-board sensor determines room temperature.
2. Only remote sensor determines room temperature.
3. Average temperature of on-board and remote sensor.
4. Only on-board sensor will be used until NITE period, and then only remote sensor is used.

**** Note:** If there is no remote sensor, option 1 must be selected.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.

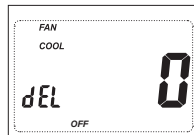


18. **Cooling Fan Delay Off Time** (0, 30, 60, 90 seconds)

Select the fan purge time for cooling.

Press the **up** or **down** button to select.

Press the **right** button to advance to the next screen.



19. **Status Indicator Light** (Led 0, 1, 2, 3)

0 = Status indicator never on

1 = Status indicator on with first stage

2 = Status indicator on with second stage

3 = Status indicator on with third stage

Press the **up** or **down** button to select.

Press the **CONFIG** button for 2 seconds to exit configuration.



Mode of Operation

The SC5812 is a programmable, manual or auto changeover, 3-stage heat, 2-stage cool thermostat. It functions with air conditioning, heat pumps, gas, oil or electric heat systems. It is dual fuel compatible and an outdoor sensor can be used to monitor the crossover temperature.

The thermostat activates the heating appliance when the room temperature is below the set heat temperature (by the differential temperature) and the red indicator light (configurable) on the thermostat will light. The SC5812 will stop outputting and the red light will turn off when the call for heat has been satisfied. With heat pumps, the thermostat will not let the compressor come on for 4 minutes after it turns off. This protects your compressor.

When the room temperature is greater than the set cool temperature (by the differential temperature), the cooling device is activated and the green indicator light (configurable) on the thermostat will turn on. The SC5812 will stop outputting and the green light will turn off when the call for cooling is satisfied. The thermostat will not let the compressor come on for 4 minutes after it turns off. This protects your compressor.

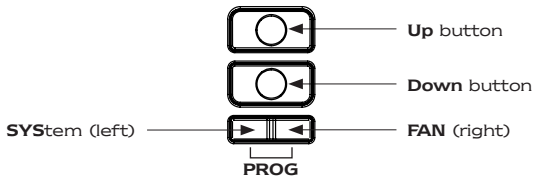
The SC5812 has five possible operating modes: **OFF**, **Heat**, **Cool**, **Heat & Cool**, and **Program** mode. In off mode, the thermostat will not turn on heating or cooling devices. The manual fan can be turned on in all operating modes using the fan button. In heat mode, the thermostat controls the heating system. In the cool mode, the thermostat controls the cooling system. In heat & cool mode, the thermostat controls both the heating and cooling systems. In program mode, the thermostat will automatically be controlled by the set program. Program mode can function with heat mode, cool mode, or heat & cool mode. The clock display alternates with the set temperature display for heat & cool mode.

The program schedule can be overridden by changing the set temperature (up or down button). This puts the SC5812 thermostat into a 2-hour temporary hold. After 2 hours, it will automatically return to the program schedule.

The programmable fan feature can be used to recirculate air while in **Program** mode. It is activated during the program schedule set up.

The SC5812 also has a button lockout feature. This enables the thermostat to be set to the proper mode and temperature and locked so it cannot be tampered with.

Button Functions



UP

Used to increase the time, set temperatures and to adjust configuration settings.

DOWN

Used to decrease the time, set temperatures and to adjust configuration settings.

SYS (left)

Used to change from OFF, HEAT, EMERGENCY HEAT, COOL and AUTO changeover modes

FAN (right)

Used to turn on and off the indoor fan.

PROG (SYS and FAN)

Used to change from program operation to manual operation.

UP and PROG

Held in simultaneously for 10 seconds to lock and unlock the thermostat.


DOWN and SYS

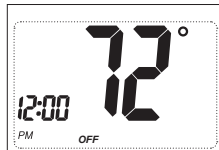
Pressed simultaneously to display outdoor remote temperature if remote sensor is connected.

Operating Modes


There are five possible operating modes for the SC5812. Off, Cool, Heat, and Cool & Heat modes are accessed by pressing the **SYS** (left) button. Program mode is accessed by pressing the **SYS** (left) and **FAN** (right) buttons simultaneously.

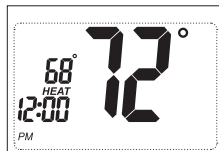
OFF Mode

- In this mode, the thermostat will not turn on the heating or cooling devices
- **** Note:** The indoor fan can be turned on manually in every operating mode by pressing the **FAN** (right) button. The word **FAN** shows on the display and the fan icon  appears when the fan operates.



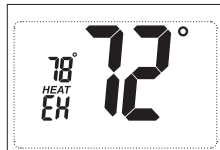
Heat Mode

- In this mode, the thermostat controls the heating system. When the heat outputs, the flame icon  appears on the display.
- **** Note:** For heat pumps, there is a four minute delay for your compressor to restart after it has turned off. To bypass the compressor time delay, go to OFF mode for 5 seconds.



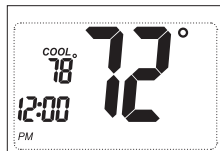
Emergency Heat Mode (Heat pump systems only)

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



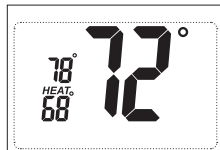
Cool Mode

- In this mode, the thermostat controls the cooling system. When the cooling outputs, the snowflake icon ❄️ appears on the display.
- ** **Note:** There is a four minute delay for your compressor to restart after it has turned off. To bypass the compressor time delay, go to OFF mode for 5 seconds.



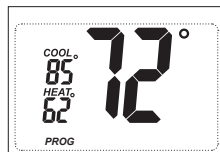
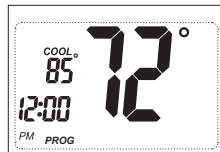
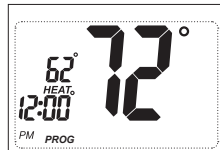
Cool and Heat Mode (Auto Changeover)

- In this mode, the thermostat controls the cooling and heating systems, automatically changing over from one to the other as needed.
- The timing display alternates with the set temperature every 10 seconds in the cool and heat mode.



Program Mode

- In this mode, the program function is on (PROG displays), and the thermostat will automatically be controlled by the set program schedule. Program mode can function with heat mode, cool mode, or heat & cool mode. The program schedule can be overridden by changing the set temperature (up or down button). After 2 hours, the program schedule will automatically be resumed. To manually return to the program schedule, press the PROG button twice.



Testing the Thermostat

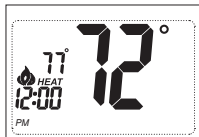
Once the thermostat is configured, it should be thoroughly tested.

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.

Heat Test

1. Press **SYS** (left) button until heat mode is displayed.
2. Adjust the set temperature so it is 5 degrees above the room temperature.
3. Heat should come on within a few seconds. Red LED may turn on.
4. Adjust the set temperature 2 degrees below the room temperature and the heat should turn off. There may be a fan delay on your system.

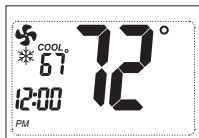
**** Note:** For heat pumps, there is a four-minute delay to protect your compressor after it turns off. To bypass the compressor time delay, go to OFF mode for 5 seconds.



Cool Test

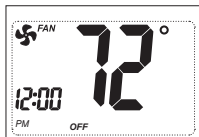
1. Press **SYS** (left) button until cool mode is displayed.
2. Adjust set temperature so it is 5 degrees below room temperature.
3. A/C should come on within a few seconds. Green LED may turn ON.
4. Adjust the set temperature 2 degrees above the room temperature and the A/C should turn off. There may be a fan delay on your system.

**** Note:** There is a four-minute time delay to protect the compressor after it turns off. To bypass the compressor time delay, go to OFF mode for 5 seconds.



Fan Test

1. Press **FAN** (right) button. Fan displays. Indoor fan turns ON.
2. Press **FAN** (right) button. Indoor fan turns OFF.



Setting the Time and Day of the Week

The time and day of the week must be set for your program schedule to operate correctly.

1. Press the **SYS** (left) button until you are in the OFF mode.
2. Press and hold the **PROG** button (**SYS** (left) and **FAN** (right) buttons pressed simultaneously) in for 6 seconds.

3. Time displays (hour flashing).

Press the **up** or **down** button to adjust the hour.



4. Press the **FAN** (right) button once to select minutes (minutes flashing).

Press the **up** or **down** button to adjust the minutes.



5. Press the **FAN** (right) button once to select day of the week (TODAY flashing).

Press the **up** or **down** button to select current day of the week.

** **Note:** At any time, press the **SYS** (left) button to return to the previous screen or press the **FAN** (right) button to advance to the next screen.

Press the **PROG** button in for 2 seconds to lock values into memory and return to the OFF mode or press the **FAN** (right) button once to enter programming.



Programming

Program Overview

The SC5812 programmable thermostat has four periods (MORN, DAY, EVE, NITE) that are customizable for each day of the week. Each period will have a start time, heat temperature, cool temperature and programmable fan option. The SC5812 monitors the day and time, while maintaining the specific conditions you have chosen for each period in your program.

Setting the program schedule:

1. Press the **SYS** (left) button until you are in **OFF** mode.
2. Press and hold the **PROG** button (**SYS** and **FAN** buttons pressed simultaneously) for 6 seconds.
3. Press the **FAN** (right) button 3 times.
4. SUN thru SAT are blinking.



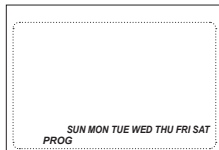
From this screen you have 2 options:

1. Press the **FAN** (right) button to begin programming all 7 days at one time, or
2. Press the up button to see the other programming options.

**** Note:** The days of the week shown on the display will be programmed simultaneously.

The screens are listed below.

Screen 1	SUN	MON	TUE	WED	THU	FRI	SAT
Screen 2		MON	TUE	WED	THU	FRI	
Screen 3		MON					
Screen 4			TUE				
Screen 5				WED			
Screen 6					THU		
Screen 7						FRI	
Screen 8	SUN						SAT
Screen 9							SAT
Screen 10	SUN						



From any of the screens on Page 26, you can press the **FAN** (right) button to begin entering your program schedule. The days shown on the display will all be programmed simultaneously.

Once the **FAN** (right) button is pressed, **MORN** blinks.

Use the **up** or **down** button to select a different period (**MORN, DAY, EVE, NITE**).

Press **FAN** (right) button to advance to the next screen. Transition time **hour** blinks.

Use the **up** or **down** button to select a different hour.

Press **FAN** (right) button to advance to the next screen. Transition time **minutes** blink.

Use the **up** or **down** button to select different minutes.

Press **FAN** (right) button to advance to the next screen. **Heat set temperature** displays.

Use the **up** or **down** button to adjust the heat set temperature.

Press **FAN** (right) button to advance to the next screen. **Cool set temperature** displays.

Use the **up** or **down** button to adjust the cool set temperature.

Press **FAN** (right) button to advance to the next screen. **Programmable fan** screen displays.

Use the **up** or **down** button to select:

Choose **Off** – Programmable fan disabled

On – Indoor fan on continuously

**** Note:** Programmable fan operates in **Program** mode only.

Repeat above steps to program the four periods per day.

When the program schedule is complete, press and hold the **PROG** button (**SYS** and **FAN** buttons pressed simultaneously) in for 2 seconds to return to the **OFF** mode.

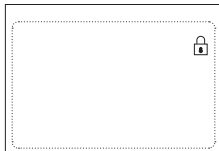
Lockout Feature

The SC5812 has a button lockout feature so the mode cannot be changed and the temperature adjustment is limited. Select the appropriate lockout from Configuration Mode Settings (Step 12, Page 16) of this guide.

To activate the LOCK feature:

1. Simultaneously press the **SYS**, **FAN** and **UP** buttons for 10 seconds.
2.  will display and the lockout function will be enabled.

To deactivate the LOCK feature, repeat steps 1 and 2 above.



Factory Preprogramming

The SC5812 comes preprogrammed with the following schedule:

MONDAY <i>thru</i> SUNDAY	MORN	6:00 AM	DAY	8:00 AM	EVE	6:00 PM	NITE	10:00 PM
	HEAT	70°F	HEAT	62°F	HEAT	70°F	HEAT	62°F
	COOL	78°F	COOL	85°F	COOL	78°F	COOL	82°F
	FAN	Off	FAN	Off	FAN	Off	FAN	Off

Personal Program Schedule

Use the following personal program schedule to record your settings:

MONDAY 1	MORN		DAY		EVE		NITE	
	HEAT		HEAT		HEAT		HEAT	
	COOL		COOL		COOL		COOL	
	FAN		FAN		FAN		FAN	
TUESDAY 2	MORN		DAY		EVE		NITE	
	HEAT		HEAT		HEAT		HEAT	
	COOL		COOL		COOL		COOL	
	FAN		FAN		FAN		FAN	
WEDNESDAY 3	MORN		DAY		EVE		NITE	
	HEAT		HEAT		HEAT		HEAT	
	COOL		COOL		COOL		COOL	
	FAN		FAN		FAN		FAN	

Personal Program Schedule (continued)

THURSDAY

4

MORN	
HEAT	
COOL	
FAN	

DAY	
HEAT	
COOL	
FAN	

EVE	
HEAT	
COOL	
FAN	

NITE	
HEAT	
COOL	
FAN	

FRIDAY

5

MORN	
HEAT	
COOL	
FAN	

DAY	
HEAT	
COOL	
FAN	

EVE	
HEAT	
COOL	
FAN	

NITE	
HEAT	
COOL	
FAN	

SATURDAY

6

MORN	
HEAT	
COOL	
FAN	

DAY	
HEAT	
COOL	
FAN	

EVE	
HEAT	
COOL	
FAN	

NITE	
HEAT	
COOL	
FAN	

SUNDAY

7

MORN	
HEAT	
COOL	
FAN	

DAY	
HEAT	
COOL	
FAN	

EVE	
HEAT	
COOL	
FAN	

NITE	
HEAT	
COOL	
FAN	

SimpleSet™ Field Programming

Requires SimpleSet™ Transfer Cable (ACC-WIH21)

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

Preparing the master to Send:

1. The master must be powered with 24 VAC.
2. Verify the master thermostat is in **OFF** mode.
3. Press **SYS** (left) button until **OFF** mode displays.
4. Remove cover of the master thermostat by gently pulling near one of the corners at the top of the thermostat.

**** Note:** Do not force open. Use a small coin or slotted screwdriver to release tabs if necessary.

5. Press the **up** and **down** buttons and **CONFIG** switch simultaneously for 5 seconds.
6. The **OUT** screen displays indicating the master thermostat is ready to transfer data.

**** Note:** Press the **up** and **down** buttons and **CONFIG** switch simultaneously for 5 seconds to exit from data transfer mode and to return the master to the **OFF** mode.

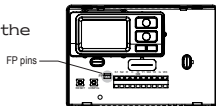
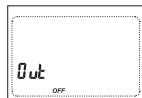
7. Turn off power to the master and remove it from the wall.
8. Connect the master to the target using the 3 wire connector. Attach one end to the Master's FP pins and the other end to the Target's FP pins.

**** Note:** Target thermostat must be powered with 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 5 down to 1. It will then display the **LOCK** 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 **CONFIG** 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 Time and day of week must be reset after extended power loss
System fan does not come on properly	Verify wiring is correct, check Gas/Electric Configuration (see Setting 7, Page 13)
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
Program schedule activates at the wrong time	Check time (AM/PM) set on thermostat (see Setting the Time, Page 25)
Thermostat turns on and off too frequently	Adjust temperature differential (see Configuration Mode Setting 2, Page 11)
Thermostat does not follow program	Verify it is operating in program mode (PROG displays); check time (AM/PM); check if in 2 hour program override
Fan runs continuously	Press FAN (right) button to turn fan off Program Mode: Check programmable fan setting in program schedule (see Page 27)
Status indicator light not on during call	Turn status indicator function on (see Configuration Mode Setting 21, Page 18)
Room temperature is not correct	Calibrate thermostat (see Configuration Mode Setting 15, Page 17) If remote sensor is used, check S1 and S2 terminal connections
 displays when any button is pressed	Thermostat has the button lockout function activated (see Lockout Feature, Page 28 and Configuration Mode Setting 12, Page 16)
E_r on display instead of room temperature	Check for a bad connection at S1 and S2 terminals, if used (see Configuration Mode Setting 17, Page 17)
Heat or Cool not coming on	Verify wiring is correct, gently pull on each wire to verify there is a good connection at terminal block
Problem not listed above	Press Reset button once*

* **Reset Button Function** Time and day are reset, configuration and program settings are unchanged.

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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 for 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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