

Manual Changeover Non-Programmable Hardwired

Non-Programmable Electronic Thermostat

- Controls Single Stage Heating/Cooling
- Single Stage Heat Pump Systems
- Compatible with Gas. Oil or Electric Systems
- **30-Minute Power Loss Memory** Retention
- · For use with 24 VAC Systems

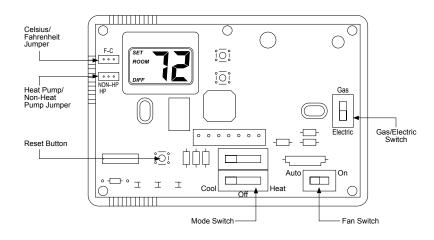


Installation, Operation & Application Guide

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



Parts Diagram



Specifications

Room temperature

Room temperature SE1 ROOM

DIFF

Temperature

Input:

• Voltage: 18-30 VAC

• Maximum: 1 amp per terminal (3 amp total for all terminals)

Temperature Ranges:

 Temperature control range: 45°F to 90°F (7°C to 32°C) Accuracy: ± 1°F (± 0.5°C)

• Differential range: 1°F to 3°F (0.5°C to 1.5°C)

Accuracy: ± 1°F (± 0.5°C)

• System configurations: Single-stage heat pump

· Terminations: R, C, W, Y, B, O G

** Note: This thermostat is designed for: Single stage gas, oil, or electric heating, heating/ cooling systems and heat pump systems. It will retain your setpoint temperatures in memory for up to 30 minutes during a power outage.

Important Safety Information

- · Always turn off the thermostat before installing, removing, cleaning, or servicing; turn off the power at the main power source by unscrewing fuse or switching off circuit breaker
- Do not switch to "Cool" if outside temperature is below 50°F (10°C), this could damage your A/C system and cause injury
- Do not install on voltages higher than 30 VAC
- · All wiring must conform to local and national building and electrical codes and ordinances
- · While cleaning, do not get soap directly on thermostat switches or LCD readout; only use a damp cloth with a mild soap to wipe the outside of the thermostat cover

Package Contents/Tools Required

Package includes: SimpleComfort® 2001 non-programmable thermostat on base, thermostat cover,

wiring labels, screws and wall anchors, Installation, Operation and Application

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

General Description

- The SimpleComfort® 2001 thermostat is a hardwired, digital, mercury-free, non-programmable, electronic thermostat
- Compatible with single stage heating systems, heating/cooling systems, and heat pump systems, works with gas, oil, or electric systems
- Suitable as a master thermostat in zoned system applications
- · Separate setpoints for heating and cooling
- Freeze Protection Feature: Protects pipes from freezing! If the room temperature drops to 40°F, the thermostat automatically turns on the heat; the thermostat must be in the Heat position
- Built-in Compressor Protection for Air Conditioners; to protect the A/C's compressor, there is a 5-minute delay between the system turning off and the A/C starting
- 30-minute power loss memory retention protection

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 off the appropriate circuit breaker.
- 2. Remove cover of old thermostat. This should expose the wires.
- 3. Label the existing wires with the enclosed wire labels before removing wires. See Replacing Wiring Labels table (below) on other side for old and new label identification.
- 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

- 1. Turn off power to your system. Move the Mode switch to Off.
- 2. Move the Fan switch to Auto.
- 3. To remove cover, insert and twist a coin or screwdriver in the slots on the sides of the thermostat.
- 4. 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).
- 5. Mark the placement of the mounting holes.
- 6. Set thermostat base and cover away from working area.
- 7. Using a 3/16" drill bit, drill holes in the places you have marked for mounting.
- 8. Use a hammer to tap supplied anchors into mounting holes. 9. Align thermostat base with mounting holes and feed the control wires through wire opening.

that each wire is connected to the proper terminal.

- 10. Use supplied screws to mount thermostat base to wall.
- **CAUTION!**: Be sure exposed portion of wires does not touch other wires. 11. Tighten screws on terminal block. Gently tug wire to be sure of proper connection. Double check
- 12. Seal hole for wires behind thermostat with non-flammable insulation or putty.
- 13. Set the Gas/Electric switch to electric or gas/oil, and heat pump jumper to NON-HP or HP.
- 14. Set the temperature scale jumper to Fahrenheit or Celsius.
- 15. Replace cover on thermostat by snapping it in place.
- 16. Turn on power to the system at the main service panel.

Replacing Wiring Labels

Replace the old labels with the enclosed new labels:

Old	New	Туре
F, G	G	Fan control relay
0	0	Cool active reversing valve
В	В	Heat active reversing valve
Y, Y6	Y	Cooling control
H, W, 4	W	Heating control
	С	Transformer, common side
M, 4, RH, RS, R	R	Transformer, hot side
С	Y or C	If the C terminal is the cooling control, connect to Y terminal; if it is the common side of the transformer, connect to C terminal

Operation

Setting the Room Temperature (Setpoint Temperature)

Step 1: Press the \checkmark or \land button; the current temperature sepoint displays.

Step 2: Press the \checkmark or \land button until the desired temperature sepoint displays.

The new temperature setting is automatically saved. After 5 seconds, the display returns to showing the current room temperature.

Setting a New Temperature Differential

The default temperature differential is 1°. When your room temperature varies by 1°F, the thermostat turns on your system. If you notice your system turning on and off too frequently, increase the temperature differential.

Step 1: Remove cover and press the *Reset* button once. Step 2: For the first 10 seconds of operation, the temperature differential is displayed.

Press the ∨ or ∧ button to select desired setting.

Changing Fahrenheit to Celsius

The temperature displays in degrees Fahrenheit as a factory set default. Follow these steps to change to degrees Celsius:

Step 1: Remove the cover.

Step 2: Move the F/C jumper to the desired position, F or C using the center pin as a common. Step 3: Press the *Reset* button once and reinstall the cover.

Your LCD readout changes accordingly.

Starting the Thermostat

Step 1: Move the Fan Auto/On switch into the Auto position.

Step 2: Move the Mode switch to Heat or Cool, depending on the season

A Quick Test

CAUTION!: Do not switch system to cool if the outdoor temperature is below 50°F (10°C). This can damage the air conditioning system and may cause personal injury.

Action: Set the *Mode* switch to *Cool*. Press the \checkmark button until the temperature setting is 3°F below

the room temperature.

Result: The A/C system and fan should turn on.

Action: Set the Mode switch to Off.

Result: The A/C should turn off (there may be a fan delay).

Action: Set the *Mode* switch to *Heat*. Press the ∧ button until the temperature setting is 3°F above

the room temperature.

Result: The heating systems and fan should turn on (there may be a time delay depending on your system).

Action: Set the Mode switch to Off.

Result: The heating system should turn off (there may be a fan delay).

Action: Set the Fan switch to On (continuous indoor fan operation)

Result: The blower fan should turn on.

Action: Set the Fan switch to Auto.

Result: The blower fan should turn off.

If the above test was successful, you have a proper installation.

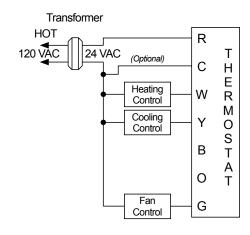
If not: Double check that wires are securely connected and are connected to the proper terminals.

Consult the troubleshooting section.

Wiring Diagrams

Heating and Cooling

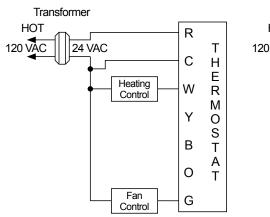
4 or 5-Wire, Single Transformer

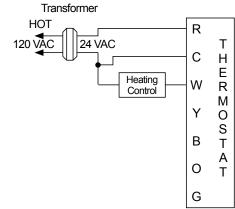


Heating Only

4-Wire, Single Transformer

3-Wire, Single Transformer





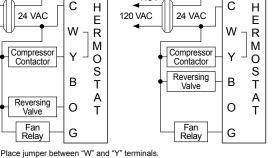
Heat Pump

Cool Active

Cooling Only

Single Transformer

Reversing Valve Transformer Transformer 120 VAC 24 VAC 120 VAC 24 VAC Ε F W W R R Μ Μ Compressor Contactor Compressor Contactor 0 0 S S Reversing Valve В Τ A T Reversing Valve 0 0 Fan Relay G G



Heat Active Reversing Valve

Transformer HOT 120 VAC 24 VAC Ε W R Μ Cooling Control 0 S В О Fan Control G

Millivolt systems may require a transformer and/or an isolation relay to operate properly.

Troubleshooting

Symptom	Remedy
The system is not turning on	Check the wiring (see To Install Thermostat)
LCD is blank	Check the wiring (see To Install Thermostat)
Thermostat is not properly controlling the fan	Check that the <i>Gas/Electric</i> switch setting matches your system (gas or electric)
Thermostat is continuously turning on and off	Increase the temperature differential (see Setting a New Temperature Differential)
Temperature display is not accurate	Your thermostat has two options for temperature readout: Fahrenheit (default) or Celsius; check that the "jumper" is properly set to your preference
	Plug the hole for wiring behind the thermostat with non-flammable insulation to prevent airflow into the thermostat

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.



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