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> ICM Controls SC1600L Simple Comfort Non-Programmable Heat Only Thermostat User Manual

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Model: SC1600L

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ICM Controls SC1600L Simple Comfort Non-Programmable Heat Only Thermostat. This thermostat is designed for use with single-stage heating systems and features a backlit display for easy readability. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the unit or your heating system.

SAFETY INFORMATION

- Always turn off power to the heating system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- This thermostat is designed for 24 VAC heating systems only. Do not use it with line voltage systems (120/240 VAC).
- Installation should be performed by a qualified technician if you are unsure about any steps.
- Do not short circuit the battery terminals.
- Dispose of batteries according to local regulations.

PACKAGE CONTENTS

- ICM Controls SC1600L Thermostat Control Unit
- Mounting Hardware (screws and wall anchors)
- User Manual

SETUP AND INSTALLATION

1. Choosing a Location

Install the thermostat approximately 5 feet (1.5 meters) above the floor in an area with good air circulation. Avoid locations near heat sources (lamps, sunlight, fireplaces), cold drafts (windows, doors), or areas with poor air circulation.

2. Power Disconnection

Before beginning installation, ensure the power to your heating system is completely turned off at the circuit breaker or fuse box.

3. Removing the Old Thermostat

1. Carefully remove the cover of your old thermostat.
2. Note the wire connections. This thermostat is designed for 2-wire heat-only systems. Typically, these wires are connected to terminals labeled 'R' and 'W'. Take a picture or label the wires for reference.
3. Disconnect the wires and remove the old thermostat's mounting plate from the wall.

4. Mounting the New Thermostat

1. Separate the front cover from the backplate of the SC1600L thermostat.
2. Position the backplate against the wall, feeding the wires through the opening. Mark the mounting holes.
3. Drill pilot holes if necessary and secure the backplate to the wall using the provided screws.

5. Wiring

Connect the two heating system wires to the terminals on the SC1600L backplate. This thermostat typically uses two wires: one for power (often labeled 'R' or 'Rh') and one for the heating call (often labeled 'W'). Ensure connections are secure.

6. Battery Installation

This thermostat is battery-powered. Insert the required batteries (typically 2 AA batteries, not included) into the battery compartment on the back of the front cover, observing the correct polarity (+/-). The display should illuminate.

7. Attaching the Front Cover

Carefully align the front cover with the mounted backplate and snap it into place.



Image: The ICM Controls SC1600L thermostat installed on a wall, showing its digital display and control buttons.

8. Power Restoration

Restore power to your heating system at the main fuse or circuit breaker panel.

OPERATING INSTRUCTIONS

1. Display Overview

The large digital display shows the current room temperature. When adjusting the setpoint, the desired temperature will be displayed temporarily.

2. Setting the Temperature

- Use the **UP** (▲) and **DOWN** (▼) arrow buttons located next to the display to adjust the desired temperature (setpoint).
- Each press of the button will change the setpoint by one degree Fahrenheit.

- The thermostat will automatically maintain the set temperature.

3. System Mode Switch (Off/Heat)

Locate the slide switch at the bottom of the thermostat. This switch controls the system mode:

- **OFF:** The heating system is turned off. The thermostat will not call for heat.
- **HEAT:** The thermostat will operate the heating system to maintain the set temperature.

4. Backlight Operation

The display backlight will activate when any button is pressed, providing improved visibility in low-light conditions. The backlight will automatically turn off after a short period of inactivity.



Image: A detailed view of the SC1600L thermostat's controls and display.

1. Battery Replacement

The thermostat is battery-powered. When the battery icon appears on the display, it indicates that the batteries are low and need to be replaced. To replace batteries:

1. Gently pull the front cover of the thermostat away from the wall plate.
2. Remove the old batteries and insert new ones, ensuring correct polarity.
3. Snap the front cover back onto the wall plate.

Note: Replacing batteries typically does not affect the set temperature, but it is good practice to verify the setting after replacement.

2. Cleaning

Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Avoid spraying liquids directly onto the thermostat.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Dead or low batteries	Replace batteries with fresh ones.
Heating system not turning on	System switch in OFF position; Incorrect wiring; Blown fuse/tripped breaker; Heating system malfunction	Ensure switch is in HEAT position. Check wiring connections. Check heating system's power supply. Consult a qualified HVAC technician.
Thermostat not holding set temperature	Thermostat location near drafts or heat sources; Thermostat malfunction	Relocate thermostat if possible. Ensure no direct drafts or heat sources affect the thermostat. If problem persists, contact support.

SPECIFICATIONS

- **Model:** SC1600L
- **Brand:** ICM Controls
- **Control Type:** Non-Programmable
- **Temperature Control Type:** Heating
- **Power Source:** Battery Powered
- **Voltage:** 24 Volts
- **Display Type:** LCD with Backlight
- **Control Method:** Button Control
- **Material Type:** Plastic
- **Mounting Type:** Panel Mount

WARRANTY INFORMATION

ICM Controls products are manufactured to high standards and are backed by a limited warranty. For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or visit the official

ICM Controls website. Keep your proof of purchase for warranty claims.

SUPPORT

If you have any questions or require technical assistance with your ICM Controls SC1600L thermostat, please contact ICM Controls customer support. Contact information can typically be found on the product packaging or the official ICM Controls website.

