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ClimaTek RS2110

ClimaTek RS2110 Digital Non-Programmable Thermostat User Manual

Model: RS2110

1. Product Overview

The ClimaTek RS2110 is an OEM upgraded digital non-programmable thermostat designed for 1 Heat/1 Cool (1H/1C) HVAC systems. This thermostat provides reliable and straightforward temperature control without complex programming features, making it ideal for users who prefer manual temperature adjustments.

It is a direct replacement for Robertshaw part # RS2110 and is built with top-quality components to ensure durability and long-lasting performance.

Figure 1: Front view of the ClimaTek RS2110 Digital Non-Programmable Thermostat, showing the digital display and two control buttons (up and down arrows) below it. The Robertshaw logo is visible on the bottom left.

2. Safety Information

Please read all instructions carefully before installing or operating this thermostat. Failure to follow these instructions could result in property damage, injury, or death.

- **Electrical Hazard:** Disconnect power to the heating/cooling system before installing or servicing the thermostat to prevent electrical shock.
- **Professional Installation Recommended:** If you are unsure about any part of the installation process, consult a qualified HVAC technician.
- **Proper Disposal:** Dispose of old thermostats and batteries according to local regulations.

- **Operating Limits:** Do not operate the thermostat outside its specified temperature and humidity ranges.

3. Installation

3.1 Tools Required

- Phillips head screwdriver
- Wire strippers (if needed)
- Drill with appropriate bit (if new mounting holes are required)

3.2 Removing the Old Thermostat

1. **Turn off power:** Locate the circuit breaker or fuse box that controls your heating and cooling system and turn off the power. Verify power is off by trying to operate the old thermostat.
2. **Remove cover:** Carefully remove the cover of your old thermostat.
3. **Photograph wiring:** Take a clear picture of the wiring connections. This will be crucial for connecting the new thermostat correctly.
4. **Label wires:** Use small labels or tape to mark each wire with its corresponding terminal letter (e.g., R, G, Y, W).
5. **Disconnect wires:** Loosen the terminal screws and carefully disconnect the wires.
6. **Remove old base:** Unscrew and remove the old thermostat's mounting base from the wall.

3.3 Mounting the New Thermostat

1. **Separate base:** Gently separate the front cover of the ClimaTek RS2110 thermostat from its mounting base.
2. **Position base:** Hold the new mounting base against the wall, ensuring the wires can pass through the opening. Use a level to ensure it is straight.
3. **Mark holes:** Mark the positions for the mounting screws.
4. **Drill holes (if necessary):** If new holes are needed, drill pilot holes.
5. **Secure base:** Feed the wires through the base and secure the mounting base to the wall using the provided screws. Do not overtighten.

3.4 Wiring the Thermostat

Refer to the photograph taken in step 3.2 and the wiring diagram below. This thermostat is designed for 1H/1C systems.

Common Wiring Connections (1H/1C Systems)

Terminal	Wire Color (Typical)	Function
R	Red	24V AC Power (Heating)
G	Green	Fan Relay
Y	Yellow	Compressor (Cooling)
W	White	Heat Relay
C	Blue/Black	Common (Optional, for continuous power)

Important: Ensure wires are securely fastened in their correct terminals. Trim any excess bare wire to prevent short circuits.

3.5 Completing Installation

1. **Attach front cover:** Align the front cover of the thermostat with the mounted base and gently snap it into place.
2. **Restore power:** Go back to your circuit breaker or fuse box and turn the power back on to your HVAC system.
3. **Test thermostat:** Proceed to the "Operating" section to test the thermostat's functions.

4. Setup and Configuration

The ClimaTek RS2110 is a non-programmable thermostat, meaning it does not require complex scheduling setup. Its primary configuration involves setting the desired temperature and selecting the system mode.

4.1 Initial Power-Up

Upon initial power-up, the thermostat display will illuminate, showing the current room temperature. If the display does not light up, check the power supply and wiring connections.

4.2 Setting Temperature Units (Fahrenheit/Celsius)

This thermostat typically defaults to Fahrenheit. Refer to the specific model's internal jumpers or button combinations for changing to Celsius, if available. This information is usually found on the back of the thermostat's circuit board or in a small compartment.

5. Operating Instructions

The RS2110 thermostat features a simple interface for easy operation.

5.1 Display Overview

The digital display shows the current room temperature and the setpoint temperature. It may also indicate the current system mode (e.g., HEAT, COOL, OFF) and fan status (e.g., AUTO, ON).

5.2 Adjusting Temperature

Use the **Up Arrow** (▲) and **Down Arrow** (▼) buttons located below the display to adjust the desired temperature setpoint. Each press will typically change the temperature by one degree.

5.3 System Mode Selection

The thermostat usually has a switch or button to select the operating mode:

- **OFF:** Turns off both heating and cooling.
- **HEAT:** Activates the heating system when the room temperature falls below the setpoint.
- **COOL:** Activates the cooling system when the room temperature rises above the setpoint.

5.4 Fan Operation

A separate switch or button controls the fan operation:

- **AUTO:** The fan runs only when the heating or cooling system is actively operating. This is the most energy-efficient setting.
- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.

6. Maintenance

The ClimaTek RS2110 thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** If your thermostat uses batteries (typically AA or AAA), replace them annually or when a low battery indicator appears on the display. Refer to the battery compartment for correct polarity.
- **Airflow:** Ensure that the thermostat is not obstructed by furniture, curtains, or other objects that could block airflow and affect temperature readings.

7. Troubleshooting

If you experience issues with your ClimaTek RS2110 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display or blank screen	No power to thermostat; Dead batteries (if applicable); Loose wiring connection.	Check circuit breaker/fuse; Replace batteries; Check wiring connections at thermostat and HVAC unit.
Heating/Cooling system not responding	Wrong mode selected; Temperature setpoint not met; Blown fuse in HVAC unit; Loose wiring.	Ensure correct mode (HEAT/COOL) is selected; Adjust setpoint to trigger system; Check HVAC unit's fuse; Verify wiring connections.
Inaccurate temperature reading	Thermostat exposed to direct sunlight or drafts; Obstruction near thermostat.	Relocate thermostat if possible; Remove obstructions; Ensure proper airflow around the unit.
Fan runs continuously in AUTO mode	Fan switch set to ON; Wiring error.	Set fan switch to AUTO; Recheck fan wiring (G terminal).

If the problem persists after trying these solutions, contact customer support or a qualified HVAC technician.

8. Specifications

- **Model:** RS2110
- **System Compatibility:** 1 Heat / 1 Cool (1H/1C) conventional systems
- **Power Source:** 24V AC (from HVAC system) or 2x AA/AAA batteries (if applicable, check unit)
- **Temperature Range:** Typically 45°F to 90°F (7°C to 32°C)
- **Temperature Accuracy:** ±1°F (±0.5°C)
- **Dimensions:** Approximately 2 x 7 x 5 inches (as per product dimensions)
- **Weight:** Approximately 11 ounces (as per product dimensions)

9. Warranty and Support

9.1 Warranty Information

This ClimaTek product is backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official ClimaTek website. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact ClimaTek customer support. Contact information can typically be found on the product packaging or the brand's official website.
You can also visit the ClimaTek Store on Amazon for more information and product details.

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