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› White Rodgers 1E78-151 70 Series Programmable Thermostat User Manual

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White Rodgers 1E78-151 70 Series Programmable Thermostat User Manual

Model: 1E78-151

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your White Rodgers 1E78-151 70 Series Programmable Thermostat. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.

SAFETY INFORMATION

Always turn off power to the heating/cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat. Failure to do so could result in electrical shock or equipment damage. This thermostat is designed for 24 Volt AC applications only. Do not use on line voltage systems (120/240 Volt AC). If you are unsure about any part of the installation process, consult a qualified HVAC technician.

PRODUCT OVERVIEW

The White Rodgers 1E78-151 is a single-stage, programmable thermostat designed for vertical mounting. It features an LCD display, push-button controls for time, program, run, and hold functions, and slide switches for fan and system mode selection.



Figure 1: Front view of the White Rodgers 1E78-151 Thermostat. It shows the LCD display at the top, followed by up/down arrow buttons. Below these are four circular buttons labeled TIME, PRGM, RUN, and HOLD. At the bottom are two horizontal slide switches, one for FAN (ON/AUTO) and one for SYSTEM (COOL/OFF/HEAT).

Key Components:

- **LCD Display:** Shows current time, day, temperature, and system status.
- **Up/Down Buttons:** Adjust temperature settings and program values.
- **TIME Button:** Used to set the current time and day.
- **PRGM (Program) Button:** Accesses and modifies programming schedules.
- **RUN Button:** Activates the programmed schedule.
- **HOLD Button:** Maintains a constant temperature, overriding the program.
- **FAN Switch (ON/AUTO):** Controls fan operation. ON runs the fan continuously; AUTO runs the fan only when heating or cooling is active.
- **SYSTEM Switch (COOL/OFF/HEAT):** Selects the operating mode for your HVAC system.

SETUP AND INSTALLATION

Tools Required:

- Screwdriver (Phillips and flathead)
- Drill with appropriate bit (if mounting new backplate)
- Wire stripper/cutter
- Level (optional)

Installation Steps:

1. **Turn Off Power:** Disconnect power to the heating and cooling system at the main fuse or circuit breaker.
2. **Remove Old Thermostat:**
 - Remove the cover of the old thermostat.
 - Note the wire connections. Label each wire with the terminal designation it was connected to (e.g., R, W, Y, G, C).
 - Disconnect the wires and remove the old thermostat base.

3. Mount New Thermostat Base:

- Pull the thermostat wires through the opening in the new thermostat base.
- Position the base on the wall and mark mounting hole locations.
- Drill pilot holes if necessary and secure the base to the wall using the provided screws.

4. Wire the Thermostat:

- Connect the labeled wires to the corresponding terminals on the new thermostat base. Refer to the wiring diagram provided with your specific HVAC system for detailed connections.
- Ensure all connections are secure.

5. **Install Batteries:** Insert two fresh AA alkaline batteries into the battery compartment.

6. **Attach Thermostat Body:** Align the thermostat body with the base and snap it into place.

7. **Restore Power:** Turn power back on to the heating and cooling system at the main fuse or circuit breaker.

Initial Setup:

• Set Current Time and Day:

1. Press the **TIME** button.
2. Use the **Up** or **Down** buttons to adjust the hour, then press **TIME** again to set minutes, and once more for the day of the week.
3. Press **RUN** to exit.

OPERATING INSTRUCTIONS

System Mode Selection:

Use the **SYSTEM** slide switch to select the desired operating mode:

- **COOL:** The thermostat will operate your cooling system.
- **OFF:** The heating and cooling systems are turned off.
- **HEAT:** The thermostat will operate your heating system.

Fan Mode Selection:

Use the **FAN** slide switch to select the desired fan operation:

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

Setting the Temperature:

In **RUN** mode, use the **Up** or **Down** arrow buttons to adjust the desired temperature setpoint. The new setpoint will be displayed.

Programming a Schedule:

The thermostat allows for programmable schedules to automatically adjust temperatures throughout the day.

1. Press the **PRGM** button. The display will show the first program period (e.g., "MORN") and its set temperature.
2. Use the **Up** or **Down** buttons to adjust the temperature for this period.
3. Press **PRGM** again to advance to the next program period (e.g., "DAY", "EVE", "NITE") and repeat step 2.
4. Continue pressing **PRGM** to cycle through all program periods for each day of the week, adjusting temperatures as needed.
5. Once all desired programs are set, press **RUN** to activate the schedule.

Temporary Temperature Hold:

To temporarily override the program schedule:

1. In **RUN** mode, use the **Up** or **Down** arrow buttons to set a new desired temperature. This will temporarily hold the temperature until the next program period begins.
2. To cancel the temporary hold and return to the program, press the **RUN** button.

Permanent Temperature Hold:

To maintain a constant temperature indefinitely, overriding all programming:

1. Press the **HOLD** button. The word "HOLD" will appear on the display.
2. Use the **Up** or **Down** arrow buttons to set the desired constant temperature.
3. To cancel the permanent hold and return to the program, press the **RUN** button.

MAINTENANCE

Battery Replacement:

The thermostat requires two AA alkaline batteries. When the battery indicator appears on the display, replace the batteries immediately to avoid loss of programming.

1. Gently pull the thermostat body away from its wall plate.
2. Remove the old batteries and dispose of them properly.
3. Insert two new AA alkaline batteries, ensuring correct polarity (+/-).
4. Snap the thermostat body back onto the wall plate.
5. The time and program settings may need to be re-entered if batteries were depleted for an extended period.

Cleaning:

Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Thermostat display is blank.	Dead batteries.	Replace batteries with fresh AA alkaline batteries.
Heating/Cooling system does not turn on.	<ul style="list-style-type: none">• Power to HVAC system is off.• System switch is in "OFF" position.• Incorrect wiring.• Blown fuse or tripped circuit breaker.	<ul style="list-style-type: none">• Check main fuse/circuit breaker.• Move SYSTEM switch to "HEAT" or "COOL".• Verify wiring connections (refer to installation section).• Check and reset fuse/breaker.
Temperature does not change.	<ul style="list-style-type: none">• Thermostat in "HOLD" mode.• Temperature setpoint too close to ambient.	<ul style="list-style-type: none">• Press RUN to cancel HOLD.• Adjust setpoint further from current room temperature.

SPECIFICATIONS

- **Model:** 1E78-151

- **Brand:** White-Rodgers
- **Type:** Single Stage, Programmable Thermostat
- **Voltage:** 24 Volts AC
- **Display:** LCD with Backlight
- **Control Type:** Push Button / Button Control
- **Connectivity Protocol:** Z-Wave (Note: Basic Z-Wave functionality for integration, consult system documentation for details)
- **Color:** White
- **Mounting:** Vertical

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official White-Rodgers website. Keep your proof of purchase for warranty claims.

