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› Honeywell RTH230B 5-2 Day Programmable Thermostat User Manual

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Model: RTH230B

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Honeywell RTH230B 5-2 Day Programmable Thermostat. This thermostat is designed to control your heating and cooling system, offering programmable schedules for weekdays and weekends to optimize comfort and energy efficiency. It features a large, easy-to-read digital display and precise temperature control.

SETUP AND INSTALLATION

Before beginning installation, ensure the power to your heating and cooling system is turned off at the circuit breaker or fuse box to prevent electrical shock and damage to the equipment. This thermostat is compatible with central gas, oil, or electric furnaces and air conditioning for single-stage heating and cooling systems, or millivolt systems.

1. Remove Old Thermostat

1. Turn off power to the heating/cooling system.
2. Remove the cover of your old thermostat.
3. Take a picture of the wiring connections for reference. Label each wire with the terminal designation (e.g., R, G, Y, W).
4. Disconnect the wires and remove the old thermostat's backplate.

2. Mount New Thermostat Backplate

1. Position the new thermostat backplate against the wall.
2. Mark the mounting holes. Drill pilot holes if necessary.
3. Secure the backplate to the wall using the provided screws.

3. Wire the Thermostat

Connect the wires to the corresponding terminals on the new backplate, referring to the picture taken earlier and the compatibility chart below. Ensure connections are secure.



Image: Rear packaging of the Honeywell RTH230B thermostat, illustrating the three-step installation process and a detailed compatibility chart for various HVAC systems. This chart helps identify correct wiring configurations.

Compatibility Chart Overview: The thermostat supports 24V AC systems for single-stage heating and cooling, as well as millivolt systems. Refer to the chart on the product packaging for specific wiring configurations based on your system type (e.g., gas furnace, oil furnace, electric furnace, heat pump without auxiliary heat, 2-wire systems).

4. Install Batteries

Insert two new AA alkaline batteries (not included) into the battery compartment. Ensure correct polarity. The thermostat retains program memory during power outages, but batteries are required for operation.

5. Attach Thermostat to Backplate

Align the thermostat with the backplate and gently push until it snaps into place.

6. Restore Power

Turn the power back on at the circuit breaker or fuse box. The thermostat display should illuminate.

OPERATING INSTRUCTIONS

The Honeywell RTH230B features a clear digital display and intuitive buttons for easy control.



Image: A close-up of the Honeywell RTH230B thermostat's front panel, highlighting the digital screen displaying time and temperature, along with the up/down arrow buttons for adjustments.

Setting Time and Day

Access the menu to set the current time and day of the week. Use the up/down arrows to adjust values and confirm with the appropriate button (refer to the thermostat's on-screen prompts or internal instructions for specific button functions).

Programming a Schedule (5-2 Day)

The thermostat allows for separate programming for weekdays (5 days) and weekends (2 days), with up to four programmable periods per day (Wake, Leave, Return, Sleep). This enables customized temperature settings to match your daily routine.

1. Enter programming mode (consult your thermostat's specific button sequence, usually a "Program" or "Set" button).
2. Set the desired temperature and time for each of the four periods (Wake, Leave, Return, Sleep) for weekdays.
3. Repeat the process for weekend programming.
4. Save your settings and exit programming mode.

Adjusting Temperature (Temporary Override)

To temporarily adjust the temperature without changing the programmed schedule, use the up/down arrow buttons. The new temperature will be maintained until the next programmed period begins, at which point the thermostat will revert to the schedule.

System Modes

- **Heat:** The thermostat controls the heating system.
- **Cool:** The thermostat controls the cooling system.
- **Off:** Both heating and cooling systems are turned off.

Fan Modes

- **Auto:** The fan runs only when the heating or cooling system is actively operating.
- **On:** The fan runs continuously, regardless of whether the heating or cooling system is active.

MAINTENANCE

Battery Replacement

The thermostat requires two AA alkaline batteries for operation. When the battery indicator appears on the display, replace the batteries promptly to ensure continuous operation. The thermostat features an easy-access battery compartment.

1. Open the battery compartment cover.

2. Remove the old batteries.
3. Insert two new AA alkaline batteries, observing the correct polarity (+/-).
4. Close the battery compartment cover.

Filter Change Reminder

The thermostat includes a filter change reminder feature. When the filter indicator appears, it is time to check or replace your HVAC system's air filter. Regularly changing your air filter helps maintain system efficiency and air quality.

Cleaning

Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or internal components.

TROUBLESHOOTING

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

| Problem | Possible Cause | Solution |
|---------------------------------------|--|---|
| No display or blank screen | Dead batteries; No power to the system. | Replace AA batteries. Check circuit breaker for HVAC system. |
| Heating/Cooling system not responding | Incorrect system mode; Wiring issue; Blown fuse in HVAC system. | Ensure thermostat is set to Heat or Cool. Verify wiring connections. Check HVAC system fuse. |
| Temperature inaccurate | Thermostat location (drafts, direct sunlight); Sensor malfunction. | Ensure thermostat is not exposed to drafts or direct sunlight. If problem persists, contact support. |
| Programmed schedule not working | Temporary override active; Incorrect program settings. | Wait for the next programmed period or cancel temporary override. Re-enter and verify program settings. |

For issues not listed here, or if solutions do not resolve the problem, please contact Honeywell Home customer support.

SPECIFICATIONS

- **Brand:** Honeywell Home
- **Model:** RTH230B
- **Controller Type:** Push Button
- **Special Features:** Auto Changeover, Programmable (5-2 Day, 4 periods per day)
- **Color:** White
- **Specific Uses:** Central Gas, Oil, Electric Furnaces & Air Conditioning (Single Stage), Millivolt Systems
- **Temperature Control Type:** Heating, Cooling
- **Power Source:** Battery Powered (2 AA batteries, not included)
- **Voltage:** 30 Volts
- **Display Type:** Digital
- **Control Method:** Touch (buttons)
- **Mounting Type:** Wall Mount
- **Temperature Control Accuracy:** $\pm 1^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)
- **Display Options:** Fahrenheit or Celsius, 12 or 24 hour time

- **Backlight:** No
- **Dimensions:** Approximately 11 x 7.5 x 9.25 inches (Product dimensions from JSON, likely packaging)
- **Item Weight:** Approximately 7.2 ounces
- **UPC:** 085267263450

WARRANTY AND SUPPORT

Warranty Information

This Honeywell RTH230B thermostat comes with a **1-year product warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official Honeywell Home website.

Customer Support

For technical assistance, troubleshooting guidance, or warranty claims, please contact Honeywell Home customer support. You can typically find contact information (phone number, website) on the product packaging or by visiting the Honeywell Home official website.

Online Resources: For additional support and frequently asked questions, visit the Honeywell Home support portal.

