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Robertshaw RS8110

Robertshaw RS8110 Pro Series Non-Programmable Thermostat User Manual

Model: RS8110

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Robertshaw RS8110 Pro Series Non-Programmable Thermostat. Designed for single-stage heating and cooling systems, this thermostat offers reliable temperature control with a user-friendly interface. Please read this manual thoroughly before installation and 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.
- This thermostat is designed for 24 VAC systems only. Do not use on line voltage systems (120/240 VAC).
- Installation should be performed by a qualified technician if you are unsure about any steps.
- Adhere to all local electrical codes and ordinances.

Setup and Installation

Proper installation is crucial for the optimal performance of your thermostat. If you are replacing an existing thermostat, note the wiring connections before removal.

Mounting Location

Install the thermostat on an inside wall, approximately 5 feet (1.5m) above the floor. Avoid locations near heat sources (lamps, sunlight, fireplaces), drafts (windows, doors), or unconditioned spaces (unheated hallways, outside walls) as these can affect temperature readings.

Wiring

The RS8110 is designed for single-stage heat/cool systems. Refer to the wiring diagram provided with your thermostat packaging for specific terminal connections. Ensure all wires are securely connected to the appropriate terminals. After wiring, mount the thermostat base to the wall using the provided screws.

Battery Installation

This thermostat typically requires batteries for operation. Open the battery compartment (usually on the side or back)

and insert fresh alkaline batteries, observing the correct polarity. Close the compartment securely.

Operating Instructions

The Robertshaw RS8110 features a clear LCD display and intuitive controls for easy temperature management.

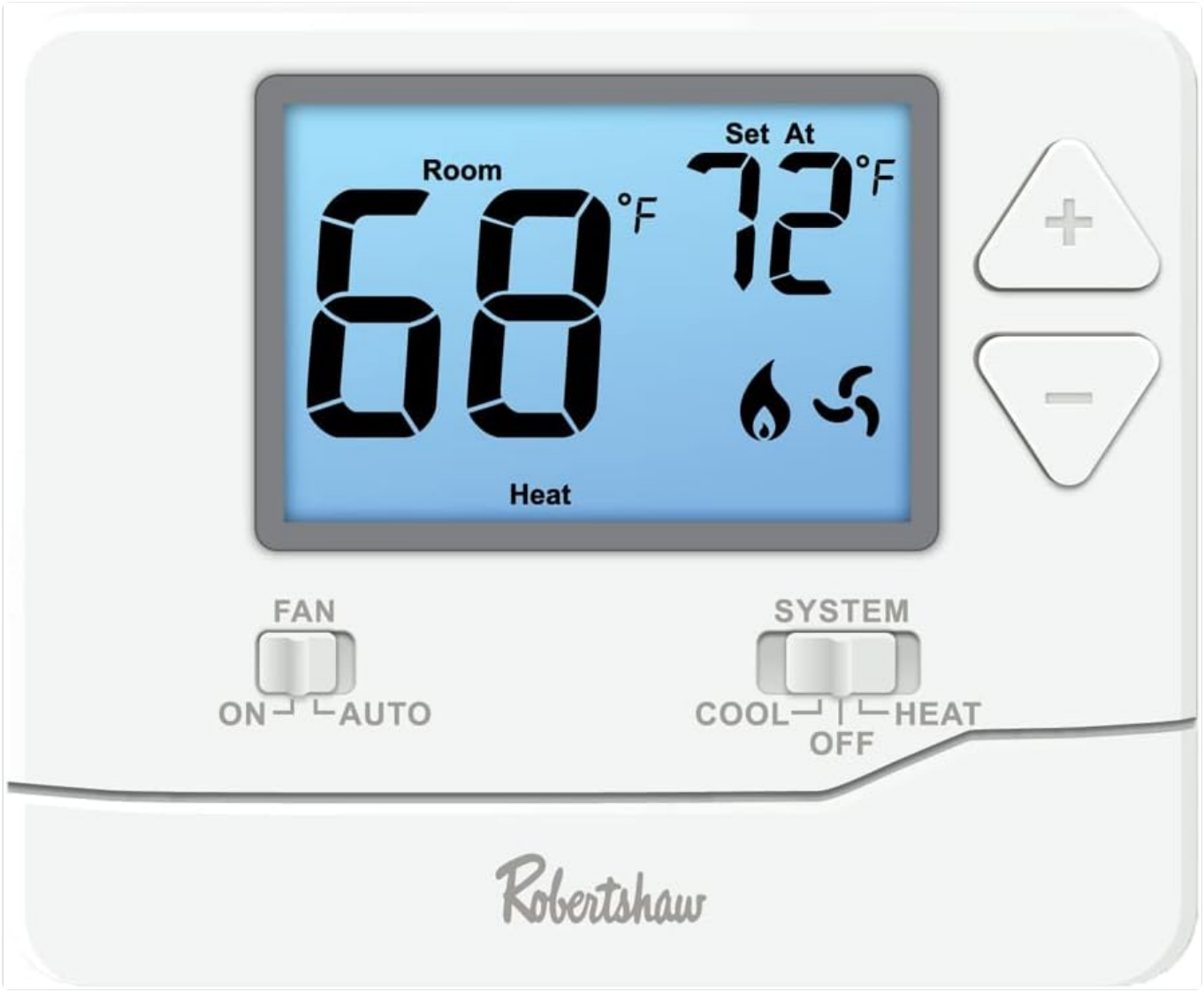

Figure 1: Robertshaw RS8110 Thermostat Front Panel. The large LCD screen shows the current room temperature (e.g., 68°F) and the set temperature (e.g., 72°F). Below the screen, there are two slide switches: one for FAN operation (ON/AUTO) and another for SYSTEM mode (COOL/OFF/HEAT). To the right of the screen are triangular up (+) and down (-) buttons for adjusting the set temperature.

Understanding the Display

- **Room Temperature:** The large digits on the left side of the display indicate the current ambient room temperature.
- **Set Temperature:** The smaller digits on the right side, labeled "Set At," show the desired temperature the thermostat is set to maintain.
- **System Mode Indicator:** Icons or text (e.g., "Heat" or "Cool") will appear to indicate the current operating mode.

Adjusting Temperature

Use the triangular **Up (+)** and **Down (-)** buttons located on the right side of the thermostat to increase or decrease the set temperature. Each press will adjust the temperature by one degree.

Fan Operation

The **FAN** slide switch controls the fan operation:

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

System Mode Selection

The **SYSTEM** slide switch selects the operating mode for your heating and cooling system:

- **COOL:** The thermostat will activate the cooling system when the room temperature rises above the set temperature.
- **OFF:** The heating and cooling systems are turned off. The fan can still be operated manually if the FAN switch is set to ON.
- **HEAT:** The thermostat will activate the heating system when the room temperature falls below the set temperature.

Maintenance

Battery Replacement

When the battery low indicator appears on the display, replace the batteries immediately. Most thermostats use AA or AAA alkaline batteries. Refer to the battery compartment for specific type and quantity. Always replace with fresh batteries to ensure continuous operation.

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 blank screen	Dead or low batteries; No power to thermostat; Blown fuse/tripped breaker.	Replace batteries; Check power to HVAC system; Reset circuit breaker or replace fuse.
System not responding (no heat/cool)	Thermostat in OFF mode; Incorrect system mode selected; Wiring issue; HVAC system malfunction.	Set SYSTEM switch to HEAT or COOL; Verify wiring connections; Consult HVAC technician.
Inaccurate temperature reading	Thermostat exposed to drafts or heat sources; Sensor malfunction.	Relocate thermostat if possible; Ensure no drafts; Contact support if issue persists.
Fan runs continuously in AUTO mode	Fan switch set to ON; Wiring issue.	Set FAN switch to AUTO; Check fan wiring.

Specifications

Brand: Robertshaw

Model: RS8110

Controller Type: Push Button

Special Feature: Non-Programmable (Note: Product title and description indicate non-programmable functionality.)

Color: White

Specific Uses For Product: Air Conditioner, Furnace

Temperature Control Type: Manual

Voltage: 24 Volts

Display Type: LCD

Control Type: Button Control

Control Method: Touch (referring to buttons)

Mounting Type: Wall Mount

Style: Modern

Backlight: Yes

UPC: 662013228194

ASIN: B0CH95QMP4

Warranty and Support

For warranty information or technical support, please contact Robertshaw customer service. Keep your purchase receipt as proof of purchase. You can typically find contact details on the manufacturer's official website or within the product packaging.
For more information, visit the official Robertshaw Store:Robertshaw Store on Amazon

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