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› Robertshaw RS9320T Pro Series Touchscreen Thermostat User Manual

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Model: RS9320T

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Robertshaw RS9320T Pro Series 7-Day Programmable Touchscreen Thermostat. This thermostat is designed for multi-stage heating and cooling systems, supporting 3 heat and 2 cool stages.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the efficiency and lifespan of your thermostat.

SETUP AND INSTALLATION

The Robertshaw RS9320T thermostat is designed for quick and easy installation, featuring a universal sub-base and large terminal blocks. Professional installation is recommended for optimal performance and safety.

Pre-Installation Checklist

- Ensure power to the HVAC system is turned off at the circuit breaker before beginning installation.
- Confirm compatibility with your HVAC system (multi-stage, 3 heat/2 cool).
- Gather necessary tools: screwdriver, wire strippers, drill (if mounting new holes).

Mounting the Thermostat

The thermostat is designed for wall mounting. Use the provided screws and anchors to secure the universal sub-base to the wall. Ensure the sub-base is level for proper aesthetic alignment.

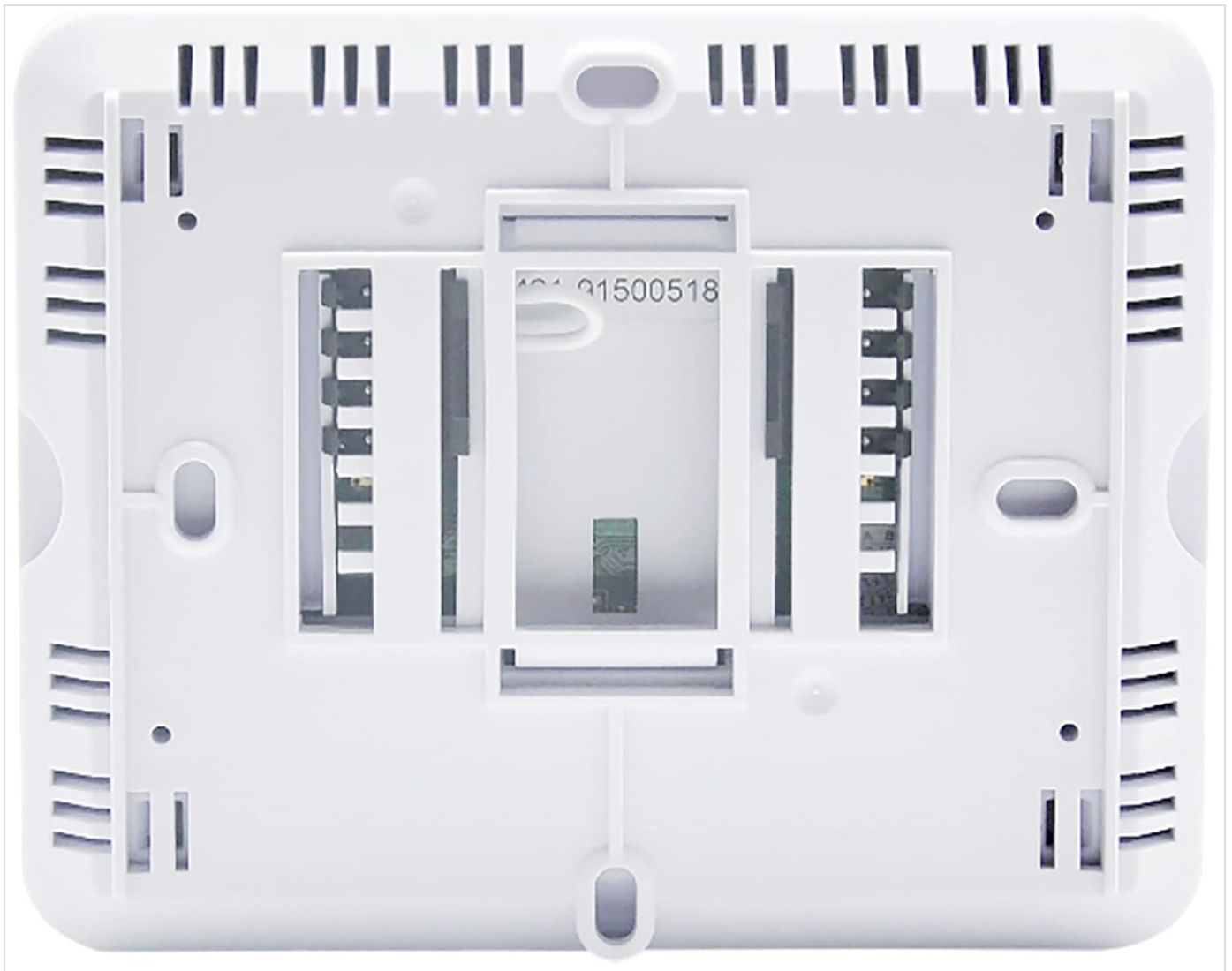


Figure 1: Rear view of the RS9320T thermostat, illustrating the mounting points and the design of the sub-base for wall installation.

Wiring Instructions

Connect the wires from your HVAC system to the corresponding terminals on the thermostat's sub-base. The large terminal blocks facilitate easy and secure wire connections. Refer to your HVAC system's manual for specific wiring diagrams if needed. The thermostat supports 24V AC power (18 to 30V AC, 50/60 Hz) via a hardwire common wire or can be powered by 2 AAA 1.5V alkaline batteries (included).

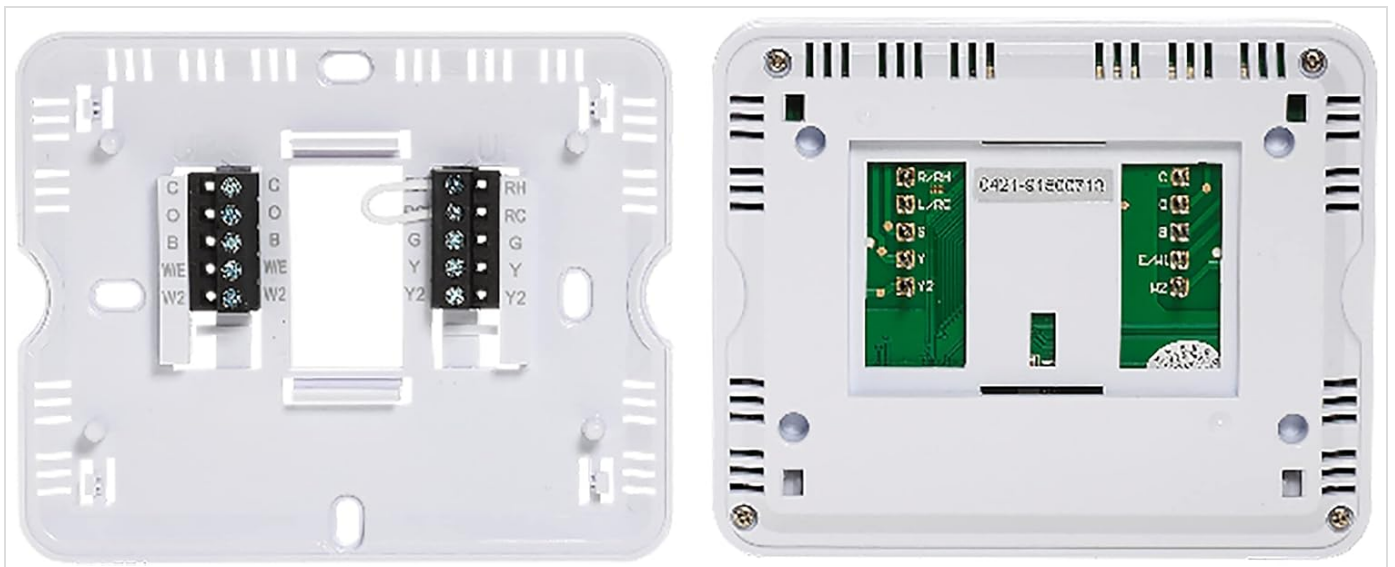


Figure 2: Detailed view of the wiring terminals on the RS9320T sub-base, showing clear labels for common HVAC connections.

After wiring, carefully attach the thermostat body to the sub-base, ensuring it clicks securely into place.

OPERATING INSTRUCTIONS

The RS9320T features a large, easy-to-read 8.8-square-inch blue backlit touchscreen display for intuitive control and programming.

Basic Operation



Figure 3: The RS9320T thermostat display, showing the current time, set temperature, actual temperature, system mode, and fan settings.

- **Adjusting Temperature:** Use the + and - buttons on the touchscreen to increase or decrease the desired temperature.
- **System Mode:** Tap the "SYSTEM" button to cycle through available modes: **Cool**, **Heat**, **Off**, and **Auto** (if configured).
- **Fan Mode:** Tap the "FAN" button to select between **Auto** (fan runs only when heating/cooling) or **On** (fan runs continuously).

Programming Schedules

The RS9320T offers 7-Day, 5-1-1 (weekday/weekend), or non-programmable options. The intuitive programming menus

allow you to set schedules for different times of the day (Wake, Leave, Return, Sleep) to optimize energy efficiency.

- Press the "Menu" button to access programming options.
- Follow the on-screen prompts to set desired temperatures and times for each period.
- A factory pre-set energy efficiency program is available for quick setup.

Advanced Settings

Access the contractor/technician setup menu for advanced configurations such as adjustable temperature differential (swing), five-minute selectable on/off compressor delay protection, adjustable room temperature calibration, and setpoint limits. Keypad lockout is also available for preventing unauthorized changes.

MAINTENANCE

Battery Replacement

The thermostat can be powered by 2 AAA 1.5V alkaline batteries (included) as a backup or primary power source if a common wire is not used. Replace batteries when the low battery indicator appears on the display.

1. Gently pull the thermostat body away from the sub-base.
2. Locate the battery compartment on the back of the thermostat.
3. Remove old batteries and insert new AAA alkaline batteries, observing polarity (+/-).
4. Reattach the thermostat body to the sub-base.

Cleaning

To clean the thermostat's touchscreen and casing, use a soft, damp cloth. Avoid abrasive cleaners or solvents, as these can damage the display or plastic components.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your RS9320T thermostat.

Problem	Possible Cause	Solution
Display is blank or dim.	No power, low batteries, or tripped circuit breaker.	Check batteries and replace if necessary. Ensure HVAC system power is on at the breaker. Verify common wire connection if used.
Thermostat not responding to touch.	Keypad lockout enabled, or temporary software glitch.	Check if keypad lockout is active and disable if needed. Remove thermostat from sub-base, wait 30 seconds, and reattach to reset.
System (heating/cooling) not turning on.	Incorrect system mode, temperature setting, or compressor delay.	Ensure thermostat is set to the correct mode (Heat/Cool). Adjust setpoint to be above/below current room temperature. Wait 5 minutes for compressor delay protection to cycle. Check wiring connections.
Temperature readings seem inaccurate.	Thermostat location, or calibration needed.	Ensure thermostat is not in direct sunlight or near heat sources/drafts. Access advanced settings to adjust room temperature calibration.

If issues persist after attempting these solutions, contact customer support.

SPECIFICATIONS

Key technical specifications for the Robertshaw RS9320T Pro Series Thermostat:

Feature	Detail
Model Name	Pro Series RS9320T programmable touchscreen wall thermostat
Controller Type	Touchscreen
Special Feature	Programmable (7-Day, 5-1-1, Non-Programmable)
Color	White
Specific Uses	Air Conditioner, Furnace, Heat Pump
Temperature Control Type	Heating, Cooling
Connectivity Technology	Millivolt, Wi-Fi
Power Source	24V AC (18 to 30V AC), 50/60 Hz for hardwire common wire or 2 AAA 1.5V alkaline batteries (included)
Item Weight	0.65 Pounds (10.4 ounces)
Voltage	24 Volts
Material	Plastic
Display Type	Digital, Blue Backlit Touchscreen
Screen Size	4.7 Inches (8.8-square-inch display area)
Product Dimensions	4.7 x 3.8 x 1 inches

Model	5-1-1 Programmable	7-day Programmable	Heating Stages	Cooling Stages	Suits heat pump – no aux/emergency heat	Suits heat pump with aux/emergency heat	System Fuel Source: Gas, Electric or Oil	Suits millivolt applications	Wall or junction box mount	Touchscreen display	Keypad lockout	Adjustable differential (swing) control	Auto changeover	Adjustable temperature calibration	Adjustable setpoint limits	Minimum compressor run time	Compressor delay—short-cycling prevention	Filter change reminder	WiFi/smart phone accessible	24V Hardwire (C Terminal)	DC 2 x AAA 1.5V Alkaline Batteries (Included)	Terminals
RS8110			1	1	*		*	*	*			*		*	*		*		*	*	Rh, Rc, C, Y, W, G, O, B	
RS8210			2	1	*	*	*	*	*			*		*	*		*	*	*	*	R, C, Y, W2, W/E, G, O, B	
RS9110	*	*	1	1	*		*	*	*			*		*	*		*	*	*	*	Rh, Rc, C, Y, W, G, O, B	
RS9210	*	*	2	1	*	*	*	*	*			*		*	*		*	*	*	*	R, C, Y, W2, W/E, G, O, B	
RS9220	*	*	2	2	*		*	*	*			*		*	*		*	*	*	*	Rh, Rc, C, Y, Y2, W, W2, G, O, B	
RS9110T	*	*	1	1	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	Rh, Rc, C, Y, W, G, O, B	
RS9320T	*	*	3 ^a	2 ^a	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	Rh, Rc, C, Y, Y2, W/E, W2, G, O, B	
RS10420T	*	*	4 ^b	2 ^b	*	*	*		*	*	*	*	*	*	*		*	*	*	*	Rh, Rc, C, Y, Y2, W/E, W2, G, O, B	

^a With heat pump; 2-stage conventional without heat pump



^a With heat pump; 2-stage conventional without heat pump

Customer Service 800.304.6563

Robertshaw.com

Figure 4: Robertshaw Pro-Series model comparison chart, detailing features and terminal configurations for various thermostats, including the RS9320T.

WARRANTY INFORMATION

The Robertshaw RS9320T Pro Series thermostat comes with a **6-year limited warranty**. This warranty enhances the value and provides peace of mind regarding the quality and durability of the product.

For detailed warranty terms and conditions, please refer to the documentation included with your product or contact Robertshaw customer service.

CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Robertshaw customer service.

- **Customer Service Phone:** 800.304.6563
- **Online Resources:** Visit the [Robertshaw Store on Amazon](#) for additional product information and support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question