

KING K901-B

KING K901-B Hoot WiFi Line Voltage Smart Programmable Thermostat User Manual

Model: K901-B

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KING K901-B Hoot WiFi Line Voltage Smart Programmable Thermostat. This device is designed to provide precise temperature control for electric heating systems, including baseboard, fan-forced, and radiant electric heaters, with the added convenience of WiFi connectivity for remote management.

Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INFORMATION

- Installation must be performed by a qualified electrician in accordance with local and national electrical codes.
- Always turn off power at the circuit breaker before installing or servicing the thermostat.
- This thermostat is designed for line voltage electric heating systems (120V/208V/240V, Single Pole, 3-Wire). Do not use with low voltage systems (e.g., furnaces, central air conditioners).
- Ensure all wiring connections are secure to prevent electrical hazards.
- Do not expose the thermostat to water or excessive moisture.

PACKAGE CONTENTS

- KING K901-B Hoot WiFi Thermostat
- Mounting Screws
- Wire Nuts
- User Manual (this document)

INSTALLATION

Tools Required:

- Screwdriver (Phillips and Flathead)
- Wire Strippers
- Voltage Tester

Wiring Instructions (Single Pole, 3-Wire):

1. **Turn off Power:** Locate the circuit breaker controlling your heating system and turn it OFF. Verify power is off using a voltage tester.
2. **Remove Old Thermostat:** Carefully remove your existing thermostat from the wall. Disconnect the wires, noting their connections.
3. **Identify Wires:** For a single pole, 3-wire installation, you will typically have two line wires (L1, L2 from the power source) and one load wire (to the heater). Consult your existing thermostat's wiring or a qualified electrician if unsure.
4. **Connect New Thermostat:**
 - Connect the two line wires (L1, L2) from the power source to the thermostat's designated line terminals.
 - Connect the load wire to the thermostat's designated load terminal.
 - Ensure all connections are secure using wire nuts.
5. **Mount Thermostat:** Secure the thermostat to the wall using the provided mounting screws.
6. **Restore Power:** Turn the power back ON at the circuit breaker.

Note: Incorrect wiring can damage the thermostat or heating system and pose a fire hazard. If you are not comfortable with electrical wiring, please consult a licensed electrician.



Image: The KING K901-B Hoot WiFi Thermostat display, showing the current temperature and set point, alongside the Hoot logo and icons for downloading the app from the App Store and Google Play.

SETUP: HOOT SMART PHONE APP & WiFi CONNECTION

The Hoot thermostat connects to your home WiFi network (2.4GHz only) to enable remote control and programming via the Hoot smartphone app.

1. **Download the App:** Search for "Hoot Smart Comfort Control" in the Apple App Store or Google Play

Store and install it on your smartphone.

2. **Create an Account:** Open the Hoot app and follow the on-screen instructions to create a new user account or log in if you already have one.
3. **Add Device:** In the app, select the option to add a new device.
4. **Thermostat Pairing Mode:** On the thermostat, follow the instructions to put it into WiFi pairing mode. This usually involves holding a specific button or navigating through a menu. The thermostat display will indicate when it's ready to connect.
5. **Connect to WiFi:** In the Hoot app, select your 2.4GHz home WiFi network and enter the password. The app will guide you through the connection process.
6. **Confirmation:** Once connected, the thermostat display will show a WiFi icon, and the app will confirm successful pairing.

Important: The Hoot thermostat only supports 2.4GHz WiFi networks. If you have a dual-band router, ensure your phone is connected to the 2.4GHz band during the setup process.



Video: An overview of the Hoot WiFi Thermostat, demonstrating its features and app connectivity for smart comfort control. This video highlights how the thermostat can be managed remotely and programmed for various schedules.

OPERATING INSTRUCTIONS

Manual Operation (Touchscreen):

- **Adjusting Temperature:** Use the Up (^) and Down (v) arrows on the touchscreen to increase or decrease the set temperature.
- **Power On/Off:** Press the power button () to turn the heating system on or off.
- **Mode Selection:** The thermostat may offer different modes (e.g., Heat, Off). Refer to the on-screen icons for selection.
- **Schedule Override:** Manually adjusting the temperature will temporarily override any active schedule. The override duration can often be set or will revert at the next scheduled event.

App Operation (Hoot Smart Comfort Control):

- **Remote Temperature Control:** Adjust the temperature from anywhere using the Hoot app on your smartphone.
- **Programming Schedules:**
 - Create custom heating schedules with up to 4 or 6 time periods per day for maximum flexibility.
 - Set different schedules for weekdays and weekends, or customize each day individually.
- **Hold Function:** Use the "Hold" feature to maintain a specific temperature indefinitely, overriding the schedule until manually released.
- **Vacation Mode:** Set a specific temperature for an extended period when you are away, saving energy.
- **User Defined Max Temperature Lock:** Set a maximum temperature limit to prevent overheating or unauthorized adjustments.

MAINTENANCE

- **Cleaning:** Gently wipe the thermostat screen and body with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** The thermostat supports Over-The-Air (OTA) firmware upgrades. The Hoot app will notify you if an update is available. Follow the app's instructions to ensure your thermostat has the latest features and improvements.
- **Battery (if applicable):** This line voltage thermostat does not typically require batteries for operation, as it draws power directly from the heating circuit.

TROUBLESHOOTING

- **Thermostat Not Powering On:**
 - Check the circuit breaker and ensure it is ON.
 - Verify all wiring connections are secure and correct.
- **No Heat Output:**
 - Ensure the thermostat is set to a temperature higher than the current room temperature.
 - Check if the thermostat is in "Off" mode or "Vacation" mode.
 - Verify the heating system itself is functioning correctly.
- **WiFi Connection Issues:**
 - Confirm your router is broadcasting a 2.4GHz network.
 - Ensure your smartphone is connected to the 2.4GHz network during setup.
 - Move the thermostat closer to the WiFi router if possible, or consider a WiFi extender.
 - Restart your router and the thermostat (by cycling power at the breaker).
 - Re-attempt the WiFi pairing process through the Hoot app.
- **Inaccurate Temperature Readings:**
 - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources (e.g., lamps, appliances) that could affect its sensor.
 - The thermostat uses an electronic thermistor for accurate control ($\pm 1^{\circ}\text{F}$).
- **Touchscreen Unresponsive:**
 - Try cycling power to the thermostat at the circuit breaker to reset it.

SPECIFICATIONS

Feature	Detail
Brand	KING
Model Name	King Electric Hoot WiFi Line V
Model Number	K901-B
Voltage	120V / 208V / 240V
Wiring Type	Single Pole, 3-Wire

Connectivity	Wi-Fi (2.4GHz)
Temperature Range	41°F - 90°F (5°C - 32°C)
Temperature Control Type	Programmable, Electronic Sensing with Thermistor (±1°F)
Display Type	Large LCD Touchscreen (4 Inches)
Control Method	Touch, App
Special Features	Programmable with Hoot App, OTA Firmware Upgradeable, User Defined Max Temperature Lock
Compatible Heaters	Baseboard, Fan Forced & Radiant Electric Heaters
Material	Plastic
Dimensions	10 x 10 x 10 inches (Product Dimensions)
Item Weight	10.3 ounces
Certification	ETL Listed


WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official KING website or contact KING customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: King Electric

Website: www.king-electric.com (Example link, actual link may vary)

Related Documents - K901-B

	<p>King KRF-HEAT-KIT Wireless 24V RF Thermostat Kit for Electric Heat Control</p> <p>Comprehensive guide to the King KRF-HEAT-KIT, a 24V RF wireless thermostat system designed for line voltage electric heat control. Features include the KRFTP-B programmable thermostat and KRFLR-120/240V relay, with detailed specifications, ordering information, and optional accessories for enhanced control and energy savings.</p>
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	<p>King KRF-B-KIT Wireless 24V RF Multi-System Thermostat Kit - Submittal and Specifications</p> <p>Product details for the King KRF-B-KIT Wireless 24V RF Multi-System Thermostat Kit, including submittal sheet fields, system diagram, engineering specifications, ordering information, and optional accessories. Features backup line voltage electric heat control.</p>
	<p>King PSH2440TB Portable Shop Heater: Installation, Operation, and Safety Manual</p> <p>This comprehensive manual provides essential information for the King PSH2440TB Portable Shop Heater, including installation, safety guidelines, operating instructions, maintenance tips, and troubleshooting solutions. Designed for garage and workshop use, it features 3750W power and 240V operation.</p>
	<p>King LPW ECO2S PRO Heater: Installation, Maintenance, and Operation Manual</p> <p>Comprehensive guide for the King LPW ECO2S PRO 7-Day Programmable 2-Stage Electronic Heater with Remote Temperature Sensing Controller. Covers installation, wiring, wattage selection, setup, operation, maintenance, troubleshooting, and warranty information.</p>
	<p>King Wireless 24V RF Thermostat Kit KRF-24V-KIT for HVAC Systems</p> <p>Information on the King Wireless 24V RF Thermostat Kit (KRF-24V-KIT), featuring the KRFTP-B thermostat and KRFR-24V HVAC relay. Details include wireless communication, programming, and optional accessories for enhanced HVAC control.</p>
	<p>King KBP-RCS Series Ruggedized Cold Start Unit Heater - Reliable Performance Down to -40°F</p> <p>Discover the King KBP-RCS Series, a compact and ruggedized unit heater engineered for extreme cold environments. Reliable operation down to -40°F with selectable wattage and heavy-duty construction for industrial and commercial applications.</p>