

LUX LTX9100U-A04

LUX LTX9100U Programmable 7 Day Thermostat User Manual

Model: LTX9100U-A04

Brand: LUX

INTRODUCTION

Welcome to the user manual for your LUX LTX9100U Programmable 7 Day Thermostat. This advanced digital thermostat is designed to provide precise and efficient control over your home's heating and cooling system. With its 7-day programming capabilities, you can customize temperature schedules to optimize comfort and energy savings. This manual will guide you through the installation, operation, maintenance, and troubleshooting of your new thermostat.

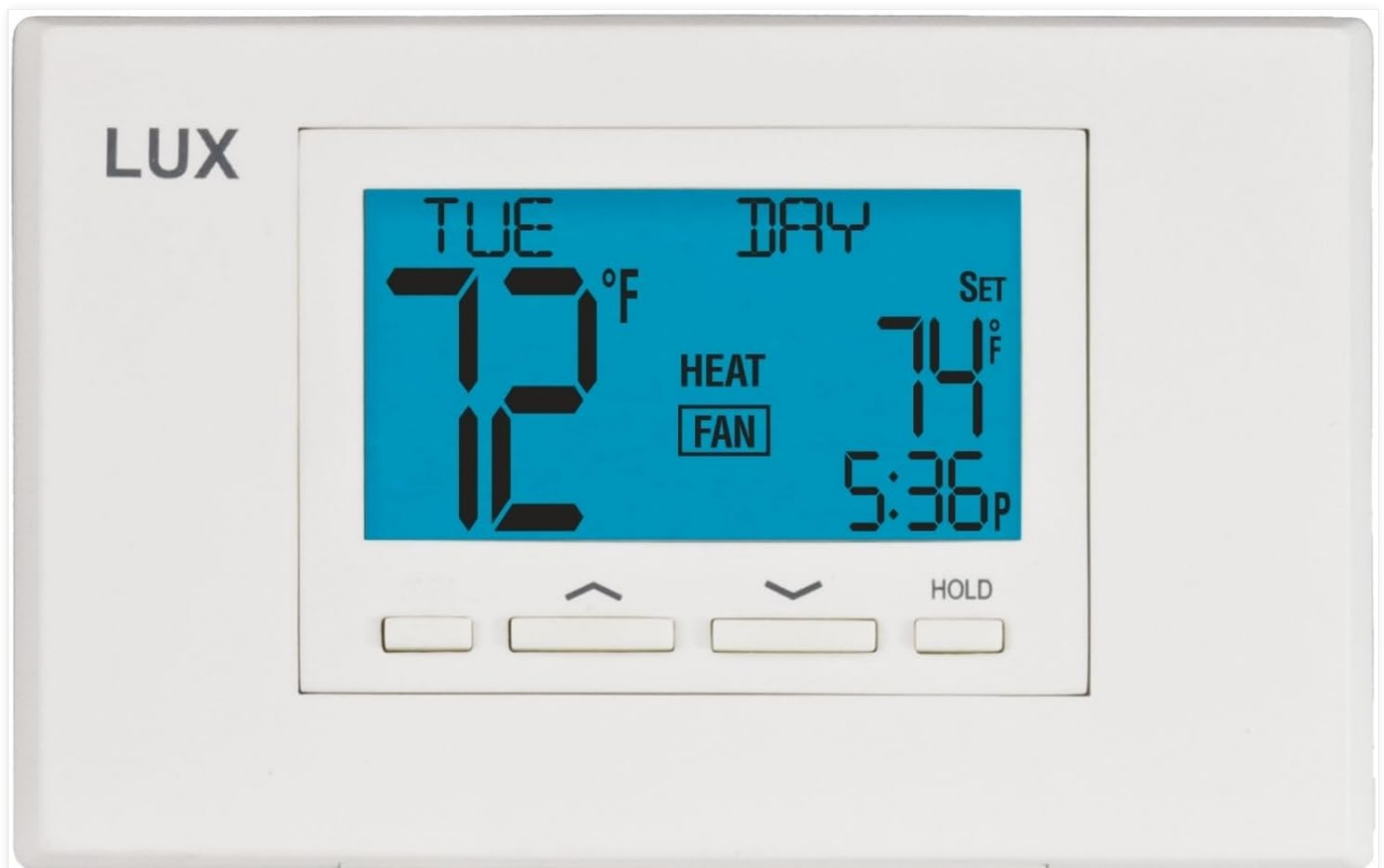


Figure 1: Front view of the LUX LTX9100U Thermostat, displaying current temperature and settings.

KEY FEATURES

- **7-Day Programmability:** Set different schedules for each day of the week to match your lifestyle and maximize energy efficiency.
- **Digital Display:** Easy-to-read display with precise temperature control.
- **Universal Compatibility:** Works with conventional heat & A/C systems (up to 2-stage heat/2-stage cool) and heat pumps (up to 2-stage heat/1 stage cool). Also compatible with 3-wire hydronic systems and gas millivolt heaters.
- **Easy Installation:** Designed for straightforward setup.
- **User Options:** Choose between 2 or 4 programming periods per day.
- **Keypad Lock:** Prevents unauthorized changes to settings.
- **Temporary Override & Manual Hold:** Allows for temporary adjustments without altering the programmed schedule.
- **Adjustable Temperature Differential/Swing:** Customize the temperature range before the system activates.
- **Selectable Smart Recovery:** Learns how long it takes to reach desired temperatures and starts early.
- **Filter Monitor:** Reminds you when to change your air filter.
- **Dual Power Options:** Can be powered by batteries or system power (24VAC).



Figure 2: Overview of key operational features.

SYSTEM COMPATIBILITY

The LUX LTX9100U thermostat is designed for a wide range of HVAC systems. Please review the compatibility details below to ensure it is suitable for your system. The electrical rating for this thermostat is 1.5 Amps per terminal, with a maximum total combined load of 3.0A for all terminals combined.

Compatible With:

- ✓ Most 24-volt heating and cooling systems
- ✓ 1 or 2 stage Heat / 1 or 2 stage Cool: Gas, Oil or Electric systems
- ✓ 1 or 2 stage Heat / 1 stage Cool: Heat Pump systems
- ✓ 3-wire hydronic (hot water) zone valves

- ✓ Gas Millivolt heaters

Not Compatible With:

- 120/240 VAC line-voltage systems (without a transformer)
- Heat pumps that have two compressor stages (Y2)
- Radiant Ceiling Heat
- Electric Baseboards
- Portable space heaters
- Plug-in air conditioners

System Compatibility

HEAT (24V) COMPATIBLE

- ✓ Gas/ Oil/ Electric Furnace - Heating only
- ✓ Gas/ Oil/ Electric Furnace - Multistage
- ✓ Gas/ Oil/ Electric Furnace - Single Stage
- ✓ Heat Pump w/o Auxiliary Heat
- ✓ Heat Pump w/ Auxiliary Heat
- ✓ 2-wire Hydronic (Hot Water)
- ✓ 3-wire Hydronic (Hot Water)
- ✓ 750 Milivolt
- ✓ Gas Fireplaces (24V)

COOL (24V) COMPATIBLE

- ✓ Cooling only
- ✓ Cool Multistage
- ✓ Single stage cooling

NOT COMPATIBLE WITH:

- ✗ Heat Pump Multistage
- ✗ Radiant Ceiling Heat
- ✗ Electric Baseboards
- ✗ Portable space heaters
- ✗ Plug-in air conditioners

Figure 3: Visual guide to system compatibility.

SETUP AND INSTALLATION

Before beginning installation, ensure the power to your HVAC system is turned off at the circuit breaker. This is crucial for your safety.

1. Removing Your Old Thermostat

1. Turn off power to your heating and cooling system at the main power panel or furnace.
2. Remove the cover of your old thermostat.
3. Take a picture of the wiring connections for reference.
4. Label each wire with the corresponding terminal letter using the provided labels or tape.
5. Disconnect the wires and remove the old thermostat base from the wall.

2. Mounting the New Thermostat

6. Separate the front cover from the thermostat base.
7. Position the new thermostat base on the wall, using the old mounting holes if possible. Use the included screws and wall anchors if new holes are needed.
8. Pull the wires through the opening in the thermostat base.

3. Wiring Connections

Connect the labeled wires to the corresponding terminals on the LUX LTX9100U thermostat base. Refer to the wiring diagrams below for common system types. Ensure all connections are secure.

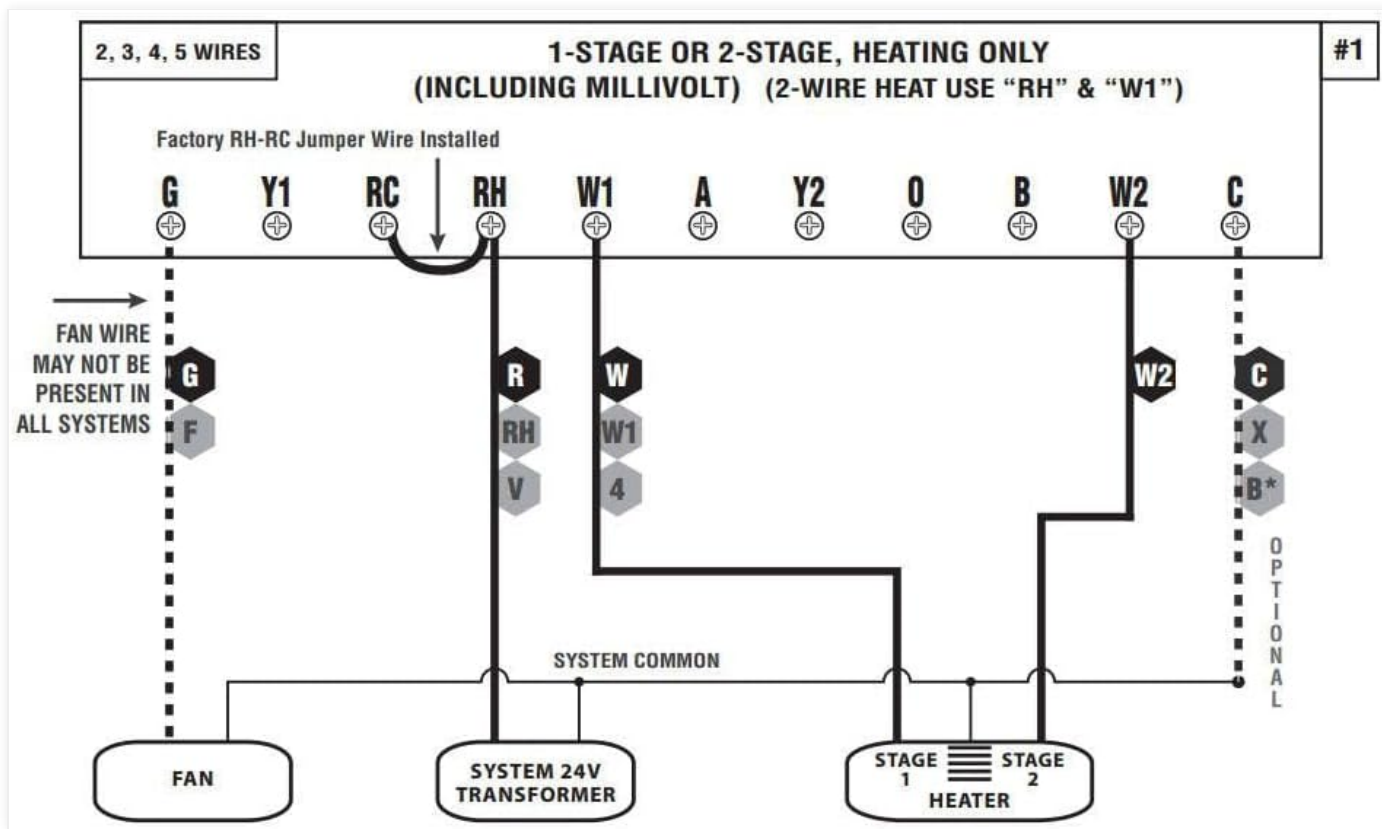


Figure 4: Wiring Diagram #1 - 1-Stage or 2-Stage Heating Only (including Millivolt).

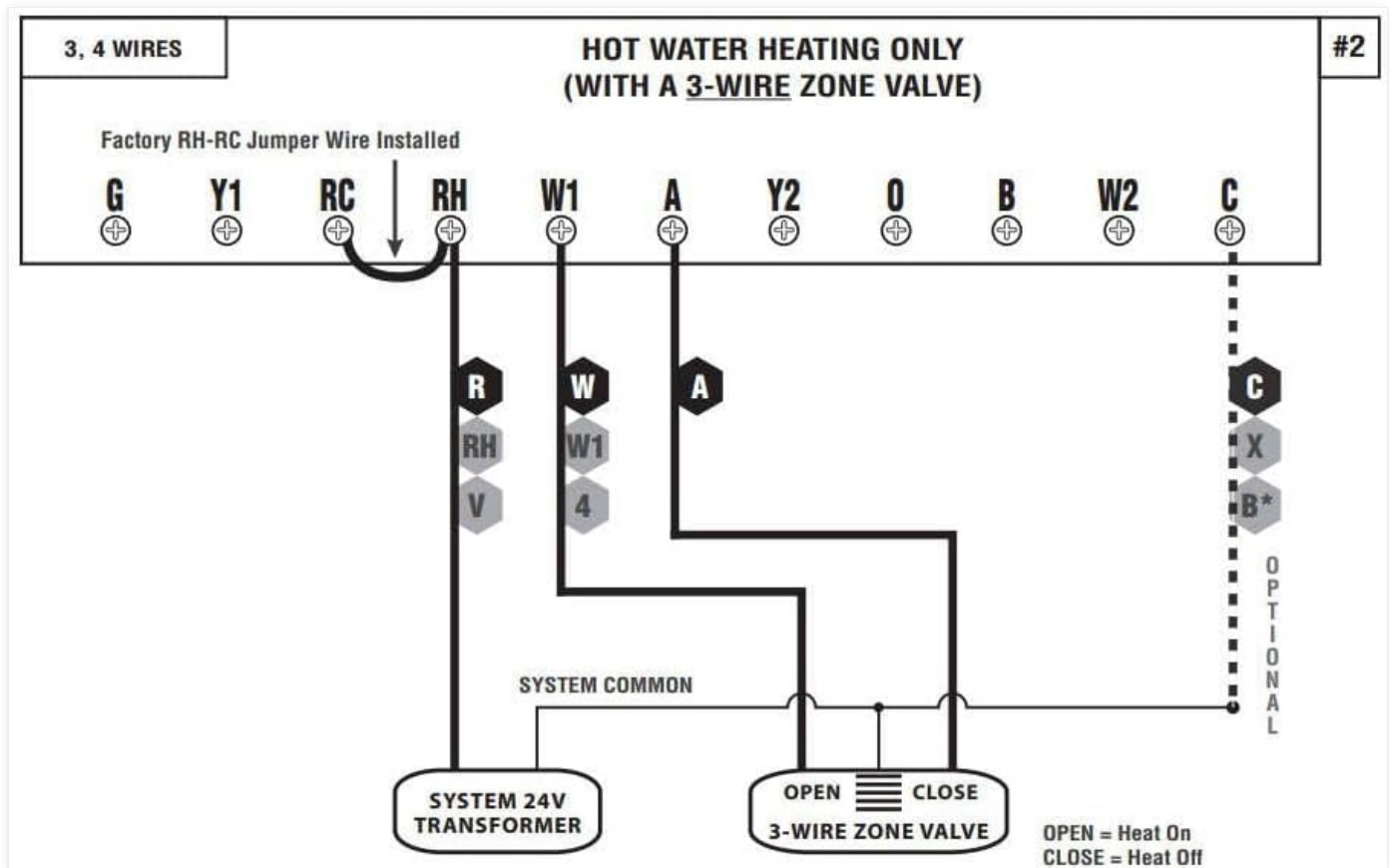


Figure 5: Wiring Diagram #2 - Hot Water Heating Only (with a 3-Wire Zone Valve).

4. Installing Batteries and Attaching Cover

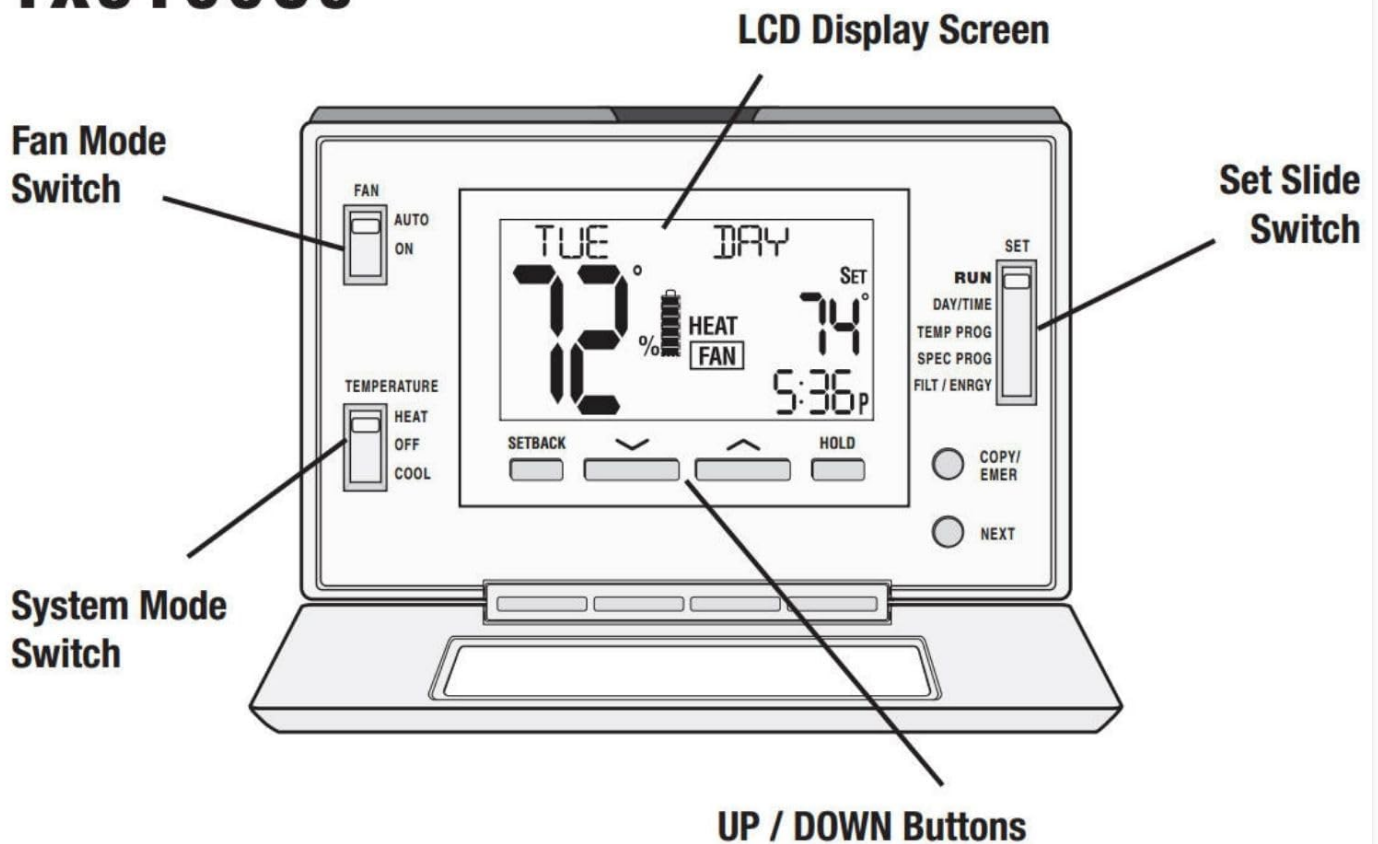
9. Insert two fresh AA alkaline batteries into the battery compartment. Ensure correct polarity.
10. Carefully align the front cover with the thermostat base and snap it into place.
11. Restore power to your HVAC system at the main power panel or furnace.

OPERATING YOUR THERMOSTAT

The LUX LTX9100U features an intuitive control panel for easy operation.

Simple & Intuitive control panel

TX9100Uc



Customizable settings for your needs

Figure 6: Control Panel Overview.

Basic Controls:

- **Fan Mode Switch:** Located on the left side. Select "AUTO" for the fan to run only when heating or cooling is active, or "ON" for continuous fan operation.
- **Temperature/System Mode Switch:** Located on the left side. Choose "HEAT", "OFF", or "COOL" depending on your desired system operation.
- **UP / DOWN Buttons:** Adjust the desired temperature setpoint.
- **HOLD Button:** Activates a temporary or permanent temperature hold, overriding the programmed schedule.

Programming Your Schedule:

The LTX9100U allows for 7-day programming with up to 4 periods per day (Wake, Leave, Return, Sleep).

1. Slide the "SET" switch to "TEMP PROG".
2. Use the "NEXT" button to navigate through the days (Monday-Sunday) and programming periods (Wake, Leave,

Return, Sleep).

- 3. Use the UP/DOWN buttons to adjust the start time and temperature for each period.
- 4. The "COPY" feature allows you to duplicate a day's schedule to other days, simplifying programming.
- 5. Once programming is complete, slide the "SET" switch back to "RUN".

For detailed programming instructions, including setting the current time and day, refer to the full digital manual available on the LUX website.

MAINTENANCE

Battery Replacement:

The thermostat uses two AA batteries. When the battery indicator on the display shows low power, replace the batteries promptly to ensure continuous operation and to maintain programmed settings.

- 1. Gently pull the front cover of the thermostat away from the base.
- 2. Remove the old AA batteries.
- 3. Insert two new AA alkaline batteries, observing the correct polarity (+/-).
- 4. Snap the front cover back onto the base.

Air Filter Reminder:

The LTX9100U includes an air filter reminder feature. When the "AIR FILTER" indicator appears on the display, it's time to check or replace your HVAC system's air filter. Regularly changing your air filter improves system efficiency and air quality. After replacing the filter, reset the reminder by sliding the "SET" switch to "AIR FILTER" and pressing the "NEXT" button.

TROUBLESHOOTING

If you encounter issues with your LUX LTX9100U thermostat, refer to the common problems and solutions below.

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries; no system power.	Replace batteries. Check if system power (24VAC) is connected and active.
System not responding (no heating/cooling).	Power off; incorrect mode; wiring issue; blown fuse in HVAC.	Check circuit breaker. Ensure thermostat is in HEAT or COOL mode. Verify wiring connections. Consult an HVAC technician if fuse is suspected.
Temperature reading seems inaccurate.	Thermostat location; calibration needed.	Ensure thermostat is not in direct sunlight or near heat sources/drafts. Refer to the full manual for temperature calibration instructions.
Programmed schedule not running.	Thermostat in HOLD mode; incorrect time/day setting.	Cancel HOLD mode. Verify current time and day settings are correct. Ensure "SET" switch is in "RUN" position.

If the problem persists after trying these solutions, please contact LUX customer support or a qualified HVAC technician.

SPECIFICATIONS

Brand	LUX
Model Name	LTX9100U-A04
Controller Type	Push Button
Color	White
Temperature Control Type	Programmable
Connectivity Technology	Wi-Fi (Note: Product description states Wi-Fi, but feature bullets and reviews suggest it might not be Wi-Fi enabled. Please verify with product packaging.)
Power Source	Battery Powered (2 AA batteries required) or 24 Volts AC system power
Material	Plastic
Display Type	Digital
Mounting Type	Wall Mount
Product Dimensions	10.5 x 8 x 1.25 inches
Item Weight	8.4 ounces
UPC	021079119103

WARRANTY INFORMATION

The LUX LTX9100U Thermostat typically comes with a limited warranty. Based on available product images, a **3-Year Limited Warranty** is indicated. For specific terms, conditions, and duration of your product's warranty, please refer to the warranty card included with your purchase or visit the official LUX website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For further assistance, technical support, or to access the complete digital version of this manual, please visit the official LUX website: www.luxproducts.com. You may also find helpful resources and frequently asked questions on the LUX store page on Amazon [LUX Store on Amazon](#).

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