

LUX P711V-010

LUX Pro P711V-010 Thermostat Instruction Manual

Model: P711V-010 | Brand: LUX

1. PRODUCT OVERVIEW

The LUX Pro P711V-010 is a versatile thermostat designed for controlling heating and cooling systems. It offers both programmable (7-day, 5/2-day) and non-programmable settings, an easy-view backlight, and a keypad lock feature. This manual provides detailed instructions for installation, operation, and programming to ensure optimal performance and energy efficiency.



Image 1.1: Front view of the LUX Pro P711V-010 Thermostat, showing the digital display and control buttons.



Image 1.2: Key features of the P711V-010, highlighting vertical installation compatibility, dual power options (battery or 24VAC), and keyboard lockout functionality.

2. FEATURES

- **Programmable Settings:** Offers 7-day, 5/2-day, or non-programmable options for flexible temperature control.
- **Easy-View Backlight:** Provides a clear display for easy reading in various lighting conditions.
- **User-Selectable Periods:** Customize your heating and cooling schedule with 2 or 4 periods per day.
- **Keypad Lock:** Prevents unauthorized adjustments to settings.
- **Dual Power Options:** Can be powered by 2 AA batteries (included) or a 24-volt system.
- **Temperature Display:** Switch between Fahrenheit (F) and Celsius (C) display.
- **Adjustable Temperature Differential:** Allows customization of the temperature swing before the system activates.
- **User Temperature Calibration:** Fine-tune temperature readings for accuracy.
- **Adjustable Heat/Cool Set Temperature Limit Stops:** Set minimum and maximum temperature limits.
- **5/2-Minute Time Delay:** Protects HVAC equipment by preventing short cycling.

3. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- LUX Pro P711V-010 Thermostat Unit
- 2 AA LR6 Batteries
- 2 ST Screws
- 2 Wall Anchors
- Wire Labels
- Instruction Manual (this document)



Image 3.1: Illustration of the contents included in the thermostat package.

4. SPECIFICATIONS

Specification	Detail
Model Name	P711V-010
Dimensions	1.25 x 3.38 x 5.38 inches
Item Weight	0.01 ounces
Power Source	Battery Powered (2 AA included) or 24 Volts (system)
Display Type	LCD with Backlight
Control Type	Push Button
Mounting Type	Vertical Mount
Voltage	24 Volts
Color	White
Certification	UL Listed

5. SYSTEM COMPATIBILITY

The P711V-010 thermostat is compatible with a variety of HVAC systems. Please review the compatibility information below to ensure it is suitable for your system.

Compatible Systems (24V)

- ✓ Gas/Oil/Electric Furnace (Heating only)
- ✓ Gas/Oil/Electric Furnace (Single Stage)
- ✓ Heat Pump without Auxiliary Heat
- ✓ 2-wire Hydronic (Hot Water)
- ✓ 750 Millivolt Systems
- ✓ Gas Fireplaces (24V)
- ✓ Cooling only systems
- ✓ Single stage cooling systems

Not Compatible With:

- ✗ Heat Pump Multistage
- ✗ Radiant Ceiling Heat
- ✗ Electric Baseboards
- ✗ Heat Pump with Auxiliary Heat
- ✗ Portable Space Heaters
- ✗ 3-wire Hydronic (Hot Water)
- ✗ Gas/Oil/Electric Furnace - Multistage
- ✗ Cool Multistage
- ✗ Plug-in Air Conditioners

System Compatability

HEAT (24V) COMPATIBLE

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

COOL (24V) COMPATIBLE

- ✓ Cooling only
- ✓ Single stage cooling

NOT COMPATIBLE WITH:

- X Heat Pump Multistage
- X Radiant Ceiling Heat
- X Electric Baseboards
- X Heat Pump w/ Auxliliary Heat
- X Portable space heaters
- X 3-wire Hydronic (Hot Water)
- X Gas/ Oil/ Electric Furnace - Multistage
- X Cool Multistage
- X Plug-in air conditioners

Image 5.1: Visual chart detailing compatible and incompatible HVAC system types.

6. INSTALLATION

Important: Before beginning installation, turn off power to your heating and cooling system at the main circuit breaker or fuse box. Improper wiring can damage the thermostat and/or your HVAC system.

6.1 Wiring Diagrams

Refer to the following diagrams to correctly wire your thermostat based on your existing system configuration. Use the provided wire labels to mark your existing wires before disconnecting your old thermostat.

3 / 4 WIRES

CONVENTIONAL, NON HEAT PUMP 1-STAGE, COOL ONLY

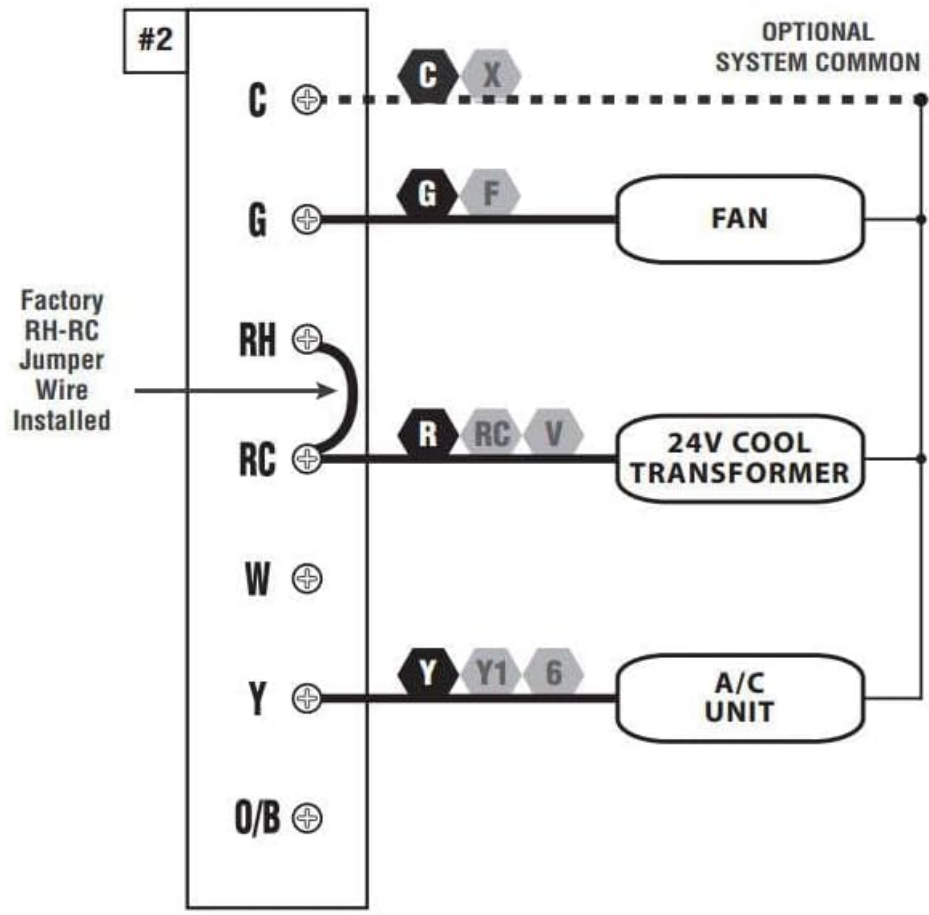


Image 6.1: Wiring diagram for 3 or 4 wire conventional systems with 1-stage cooling only.

4 / 5 WIRES

CONVENTIONAL, NON HEAT PUMP 1-STAGE HEAT AND 1-STAGE COOL

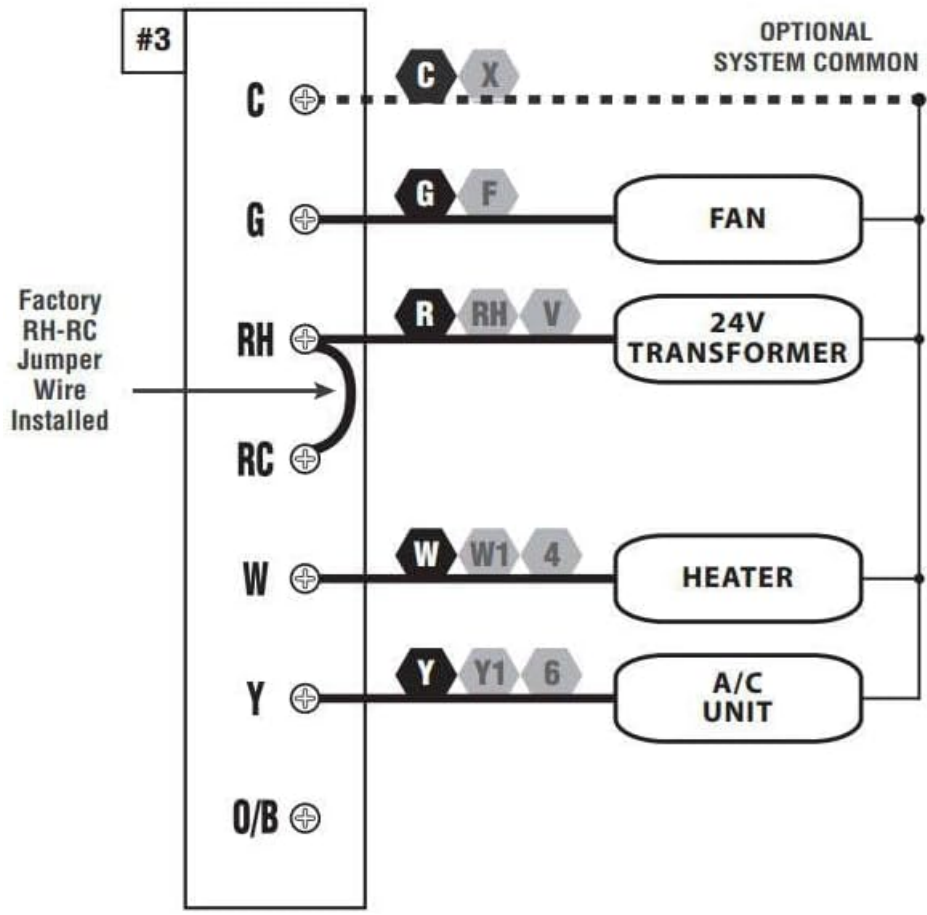


Image 6.2: Wiring diagram for 4 or 5 wire conventional systems with 1-stage heating and 1-stage cooling.

5 / 6 WIRES

CONVENTIONAL, NON HEAT PUMP 1-HEAT / 1-COOL, WITH TWO-TRANSFORMERS

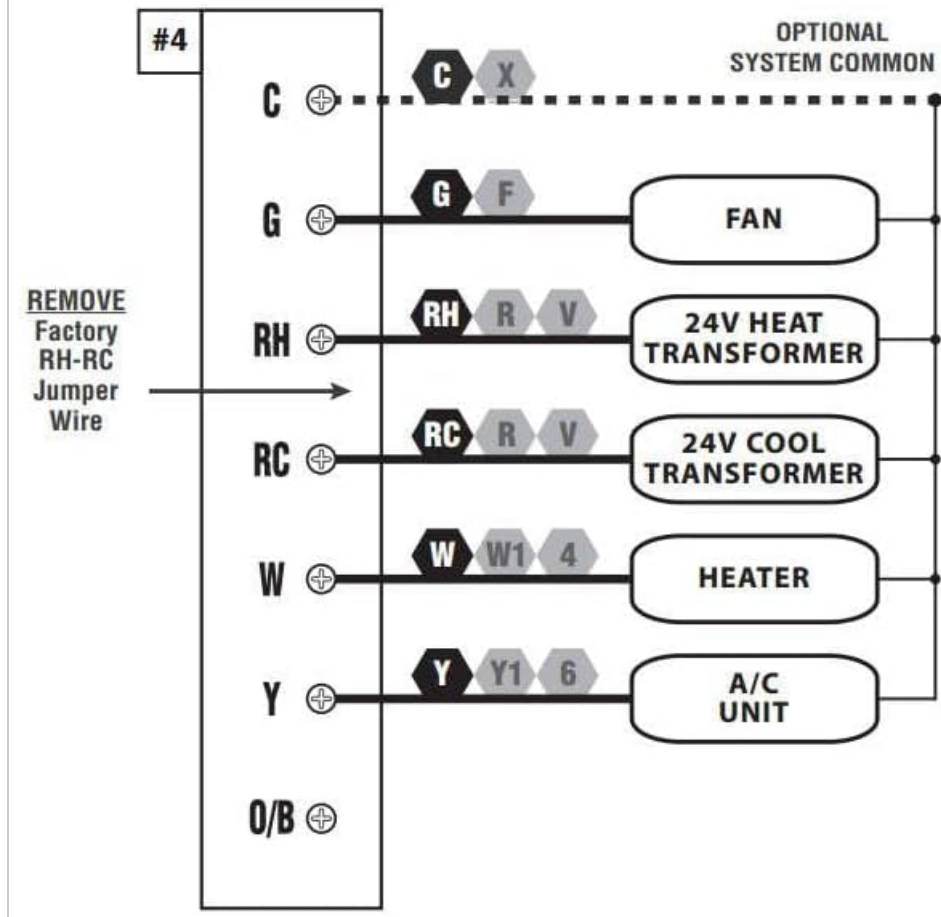


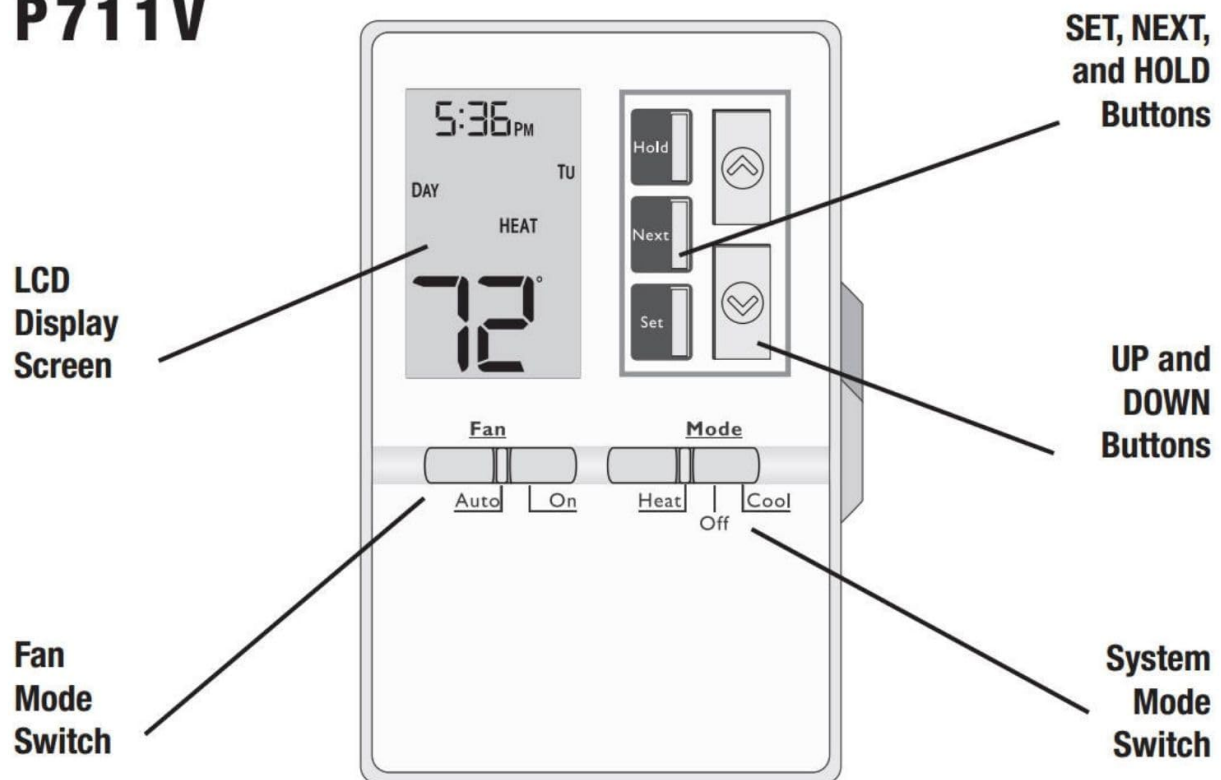
Image 6.3: Wiring diagram for 5 or 6 wire conventional systems with 1-heat and 1-cool, utilizing two transformers. Note: Remove the factory RH-RC jumper wire for this configuration.

7. OPERATION

This section details the basic controls and functions of your P711V-010 thermostat.

Simple & Intuitive control panel

P711V



Customizable settings for your needs

Image 7.1: Labeled diagram of the P711V-010 control panel, indicating the LCD display, programming buttons (Set, Next, Hold), temperature adjustment buttons (Up, Down), Fan Mode switch, and System Mode switch.

7.1 Basic Controls

- **Fan Switch (Auto/On):**
 - **Auto:** Fan runs only when the heating or cooling system is active.
 - **On:** Fan runs continuously.
- **Mode Switch (Heat/Off/Cool):**
 - **Heat:** Thermostat controls the heating system.
 - **Off:** Both heating and cooling systems are off.
 - **Cool:** Thermostat controls the cooling system.
- **UP (▲) / DOWN (▼) Buttons:** Adjust the set temperature or navigate programming menus.
- **SET Button:** Used to enter and confirm programming settings.
- **NEXT Button:** Advances through programming steps.
- **HOLD Button:** Maintains the current temperature indefinitely, overriding any programmed schedule. Press again to cancel HOLD and resume program.

7.2 Programming

The P711V-010 offers 7-day, 5/2-day, or non-programmable modes. Refer to the full instruction manual for detailed programming steps for each mode. Generally, programming involves setting the time, day, and desired temperatures for specific periods (e.g., Wake, Leave, Return, Sleep).

7.3 Keypad Lock

To prevent unauthorized changes, the thermostat features a keypad lock. Consult the detailed manual for instructions on how to activate and deactivate this feature.

8. TROUBLESHOOTING

If you encounter issues with your thermostat, consider the following common troubleshooting steps:

- **No Display/Blank Screen:** Check batteries and replace if necessary. Ensure power to the HVAC system is on.
- **System Not Responding:** Verify the thermostat is set to the correct mode (Heat/Cool). Check wiring connections. Ensure the system's circuit breaker is not tripped.
- **Incorrect Temperature Reading:** The thermostat may require calibration. Refer to the full manual for calibration instructions.
- **Program Not Running:** Ensure the thermostat is not in 'HOLD' mode. Verify programming settings are correctly entered.
- **Short Cycling:** The 5/2-minute time delay is designed to prevent this. If short cycling persists, consult an HVAC professional.

For more detailed troubleshooting, refer to the comprehensive instruction manual included with your product or visit the LUX support website.

9. WARRANTY AND SUPPORT

The LUX Pro P711V-010 Thermostat comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

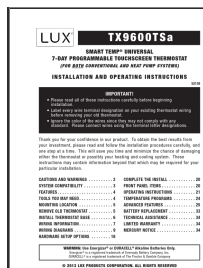
For technical support, warranty service, or additional information, please refer to the contact details provided in the full product manual or visit the official LUX website.

Related Documents - P711V-010



[LUX TX700U Universal Thermostat: Installation Guide & Features](#)

Comprehensive installation manual and guide for the LUX TX700U Universal Thermostat, covering setup, programming, wiring, and operation for various HVAC systems. Learn about system compatibility, cautions, installation steps, front panel controls, setup options, temperature programming, and emergency heat functions.



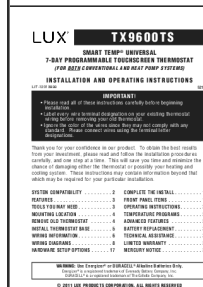
[LUX TX9600TSa Smart Temp Universal 7-Day Programmable Touchscreen Thermostat:
Installation and Operating Instructions](#)

This manual details the installation, operation, features, and troubleshooting for the LUX TX9600TSa Smart Temp Universal 7-Day Programmable Touchscreen Thermostat, compatible with conventional and heat pump systems.



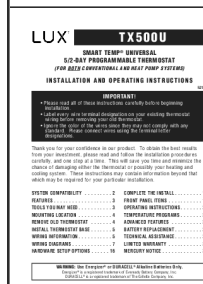
LUX TX9100Uc Smart Thermostat: Installation & Operation Guide

Detailed installation, wiring, programming, and operation guide for the LUX TX9100Uc Smart Temp Universal 7-Day Programmable Thermostat. Learn about features, compatibility, advanced settings, and troubleshooting.



[LUX TX9600TS Smart Temp Universal 7-Day Programmable Touchscreen Thermostat Installation Guide](#)

Comprehensive installation and operating instructions for the LUX TX9600TS Smart Temp Universal 7-Day Programmable Touchscreen Thermostat. Learn about system compatibility, features, wiring, setup, and advanced operation for conventional and heat pump systems.



LUX TX500U Smart Temp Universal 5/2-Day Programmable Thermostat: Installation & Operation

Get detailed installation and operating instructions for the LUX TX500U Smart Temp Universal 5/2-Day Programmable Thermostat. Learn about setup, wiring, features, and troubleshooting for your HVAC system.



TX500E Programmable Thermostat Installation and Operating Instructions

Comprehensive guide for installing and operating the LUX TX500E Programmable Thermostat, covering features, setup, programming, and maintenance for optimal home climate control.