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## LUX P721UT-010

# Lux Pro P721UT-010 TS 7 Day Programmable Thermostat User Manual

Brand: LUX | Model: P721UT-010

## PRODUCT OVERVIEW

The Lux Pro P721UT-010 is a deluxe, touch screen thermostat designed for customizable temperature control. It operates as an all-in-one programmable or non-programmable unit, offering broad compatibility with various HVAC systems. Its dual power capability ensures consistent and reliable performance.

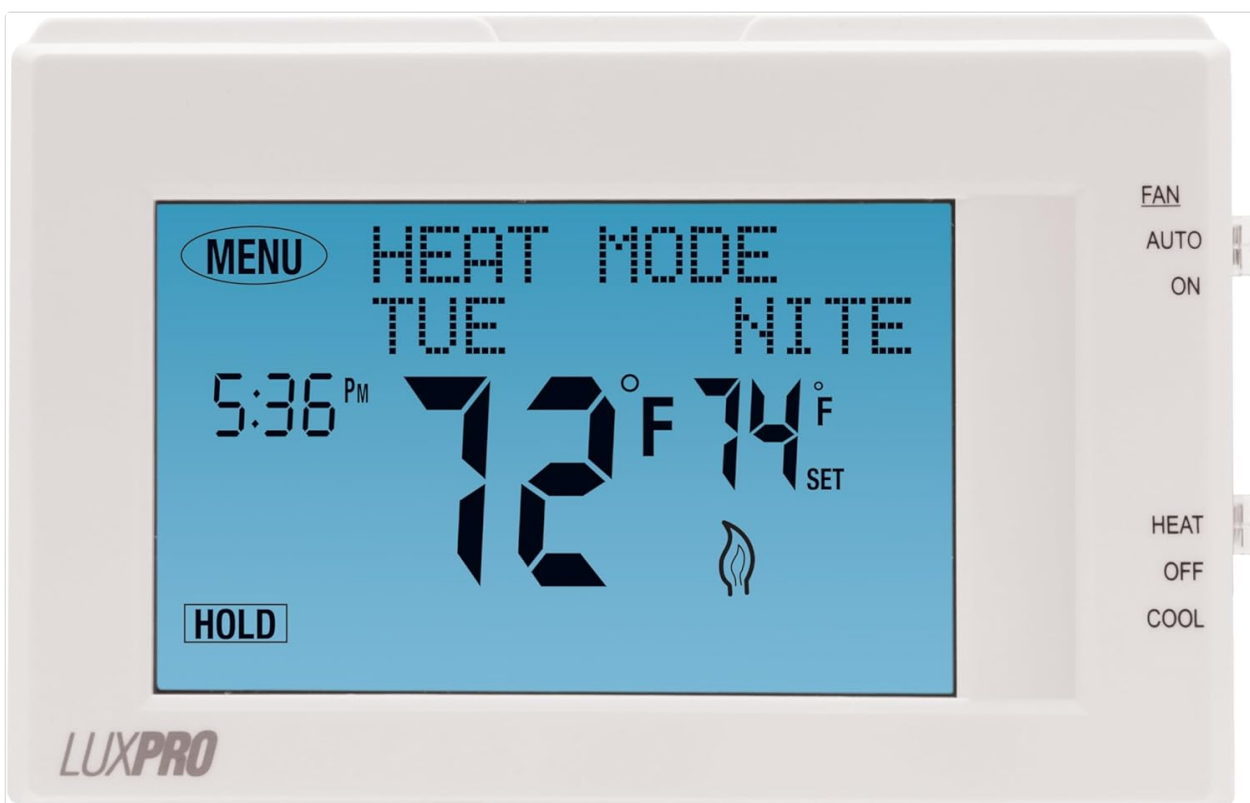


Figure 1: Front view of the Lux Pro P721UT-010 Thermostat, displaying current time, room temperature, and set temperature.

## Key Features

## FEATURES:

- 1 or 2-Heat / 1-Cool, 7-day programming
- Universal Compatibility for all system types
- Each day of the week can be programmed separately
- Easy to use, touchscreen menu operation
- User-selectable periods per day (2 or 4)
- User-selectable programmable or non-programmable operation
- LuxLight® EL (Electro-Luminescent) lighted display
- Energy usage monitor
- Programmable air filter life timer
- Programmable keypad lockout for unauthorized users
- Manual temperature hold
- Adjustable vacation hold (1 to 30 days)
- Temporary temperature override
- Adjustable temperature differential / cycle-rate
- Adjustable 2nd heat stage Offset setting
- User temperature calibration
- Adjustable heat/cool set temperature limit stops
- Smart recovery
- Dual-powered (battery and/or 24-volt system powered)
- Battery-free memory storage
- F/C temperature display
- 12/24-hour clock display
- 5/2-minute selectable time delay for equipment protection

Figure 2: A detailed list of the thermostat's features, including programming options, display type, and advanced settings.

- **Easy Installation:** Designed for quick setup.
- **Programmable Options:** Supports 7-Day, 5/2-Day, or Non-Programmable modes.
- **Easy-View Backlight:** Clear, illuminated display for enhanced readability.
- **User-Selectable Periods:** Choose between 2 or 4 programming periods per day.
- **Keypad Lock:** Prevents unauthorized adjustments to settings.
- **LuxLight EL Display:** Electro-Luminescent lighted display.
- **Energy Usage Monitor:** Helps track energy consumption.
- **Programmable Air Filter Life Timer:** Reminds users when to change the air filter.
- **Manual Temperature Hold:** Allows for temporary temperature overrides.
- **Adjustable Vacation Hold:** Set a specific temperature for 1 to 30 days.
- **Dual-Powered:** Can be powered by batteries and/or a 24-volt system.
- **Battery-Free Memory Storage:** Retains settings during power outages.
- **F/C Temperature Display:** Switch between Fahrenheit and Celsius.
- **12/24-Hour Clock Display:** Select preferred time format.
- **5/2-Minute Time Delay:** Protects equipment from short cycling.

## System Compatibility

#### SYSTEM COMPATIBILITY:

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 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), ask your LUX dealer for thermostats to control these systems.

Figure 3: Image detailing the types of HVAC systems compatible with the thermostat.

The P721UT-010 thermostat has an electrical rating of 1.5 Amps per terminal, with a maximum total combined load of 3.0A for all terminals. It is compatible with:

- Most 24-volt heating and cooling systems.
- 1 or 2 stage Heat / 1 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). Consult your LUX dealer for compatible thermostats for these systems.

## SETUP AND INSTALLATION

Before beginning installation, ensure the power to your HVAC system is turned off at the circuit breaker to prevent electrical shock.

### Wiring Diagrams

Refer to the following diagrams for proper wiring connections based on your system type. The factory RH-RC jumper wire is installed for most common systems.



Figure 4: Wiring diagram for 1-stage or 2-stage heating only systems (including millivolt). Note: Fan wire may not be present in all systems.

## P721UTa

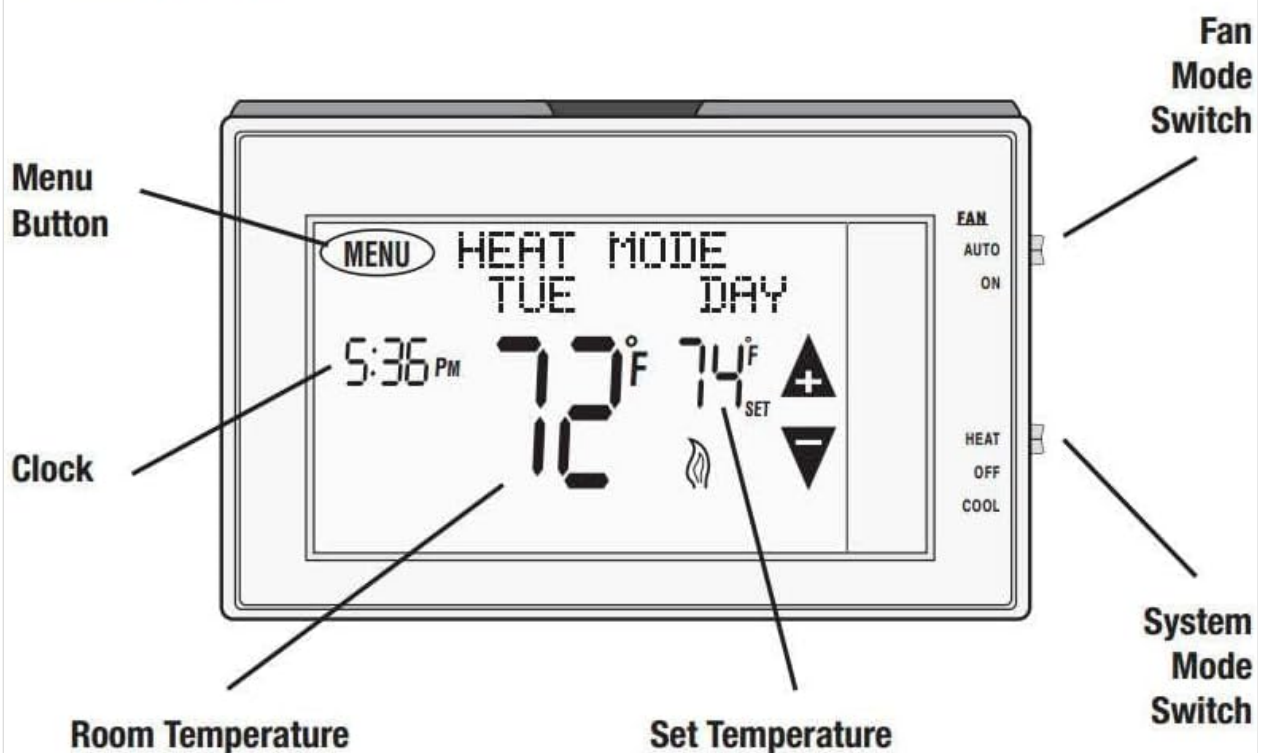


Figure 5: Wiring diagram for hot water heating only systems with a 3-wire zone valve.



## Battery Installation

The thermostat requires 2 AA batteries for operation and memory backup. Insert the batteries into the compartment located on the back of the thermostat, ensuring correct polarity. Remove any insulating tabs if present.

## OPERATING INSTRUCTIONS

The Lux Pro P721UT-010 features an intuitive touchscreen interface for easy operation. The screen lights up when touched, providing visibility in low-light conditions.

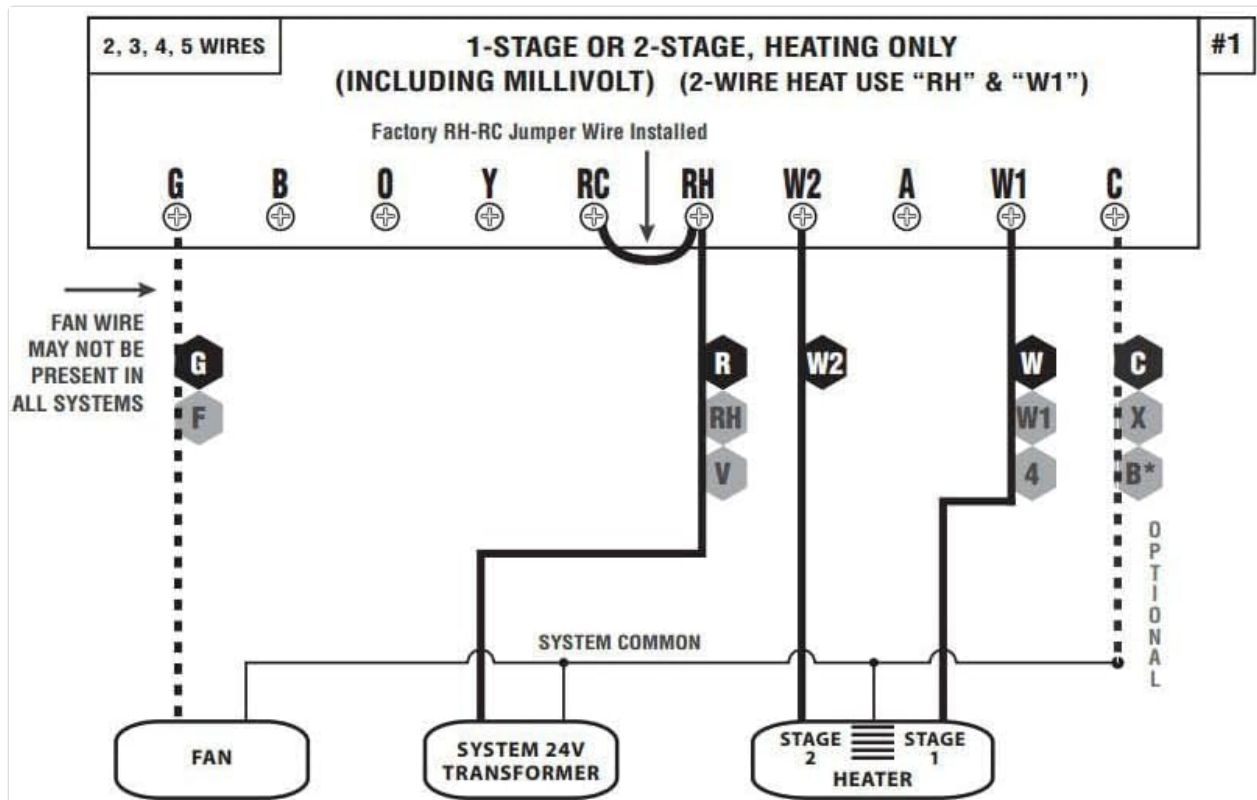


Figure 6: Labeled diagram of the P721UTa thermostat's display and controls.

## Basic Controls

- **Menu Button:** Access programming and advanced settings.
- **Fan Mode Switch:** Select between AUTO (fan runs only when heating/cooling) or ON (fan runs continuously).
- **System Mode Switch:** Choose between HEAT, OFF, or COOL.
- **Temperature Adjustment:** Use the up/down arrows on the touchscreen to change the set temperature.
- **Hold Function:** Press the 'HOLD' button to maintain the current temperature indefinitely, overriding the program schedule.

## Programming Your Thermostat

The thermostat allows for 7-day, 5/2-day, or non-programmable operation. You can set 2 or 4 periods per day to customize your heating and cooling schedule.

1. Press the **MENU** button to enter programming mode.
2. Follow the on-screen prompts to set the time, day, and desired temperatures for each period.

3. Select your preferred programming schedule (7-day, 5/2-day, or non-programmable) within the menu.
4. Confirm settings to save your program.

## Keypad Lock

To prevent unauthorized changes, activate the keypad lock feature through the menu settings. Refer to the full instruction manual for detailed steps on enabling and disabling this feature.

## MAINTENANCE

### Battery Replacement

The thermostat uses 2 AA alkaline batteries. When the battery indicator appears on the display, replace the batteries promptly to ensure continuous operation and prevent loss of settings. Even with 24-volt power, batteries are crucial for memory backup during power outages.

### Air Filter Reminder

The thermostat features a programmable air filter life timer. When the 'CHANGE FILTER' message appears on the display, it is time to inspect or replace your HVAC system's air filter. Reset the timer through the menu after changing the filter.

### Cleaning

To clean the thermostat's touchscreen and casing, use a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the display or plastic components.

## TROUBLESHOOTING

If you encounter issues with your Lux Pro P721UT-010 thermostat, consider the following common troubleshooting steps:

- **No Display/Power:** Check if the batteries are correctly installed and have sufficient charge. Ensure the HVAC system's power is on at the circuit breaker.
- **Incorrect Temperature Reading:** Verify that the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its sensor.
- **System Not Responding:** Check all wiring connections to ensure they are secure and match the appropriate diagram for your system. Confirm the system mode switch (HEAT/OFF/COOL) is set correctly.
- **Programming Issues:** If the schedule is not working as expected, re-enter the programming mode and verify all settings for each period and day. Ensure the 'HOLD' function is not active.
- **Keypad Unresponsive:** If the touchscreen is not responding, try gently cleaning the screen. If the issue persists, a soft reset (removing and reinserting batteries) might be necessary.

For persistent issues or complex problems, it is recommended to consult a qualified HVAC technician or refer to the comprehensive troubleshooting guide available on the LUX website.

## SPECIFICATIONS

Attribute	Detail
Brand	LUX
Model Name	P721UT: 2 heat & 1 cool Stage, Touchscreen
Model Number	P721UT-010
Controller Type	Touch, Push Button
Color	White
Specific Uses	Ductless systems
Temperature Control Type	Programmable
Connectivity Technology	Wi-Fi
Included Components	P721UT-010 7 Day Programmable Thermostat
Power Source	Battery Powered
Voltage	24 Volts
Material	Plastic
Display Type	LED
Control Method	Touch
Mounting Type	Wall Mount
Backlight	Yes
Number of Batteries	2 AA batteries required
Item Weight	2.4 ounces
Product Dimensions	5.38 x 1.13 x 3.38 inches
UPC	021079139606

## WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official LUX website or contact their customer service directly. The product typically comes with a manufacturer's warranty covering defects in materials and workmanship.

**Online Resources:** Visit the [LUX Store on Amazon](#) for additional product information and resources.

