

LUX PSD010B

LUX Pro PSD010B Mechanical Non-Programmable Thermostat User Manual

MODEL: PSD010B

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your LUX Pro PSD010B Mechanical Non-Programmable Thermostat. This thermostat is designed for use with 1 Heat Only systems, including fireplaces, stoves, and in-floor radiant heating. It does not require a fan switch and is battery-powered for reliable operation.



Image 1.1: Front view of the LUX Pro PSD010B Thermostat, displaying a temperature of 72 degrees Fahrenheit on its digital screen, along with up and down arrow buttons for temperature adjustment.

Perfect for any home environment

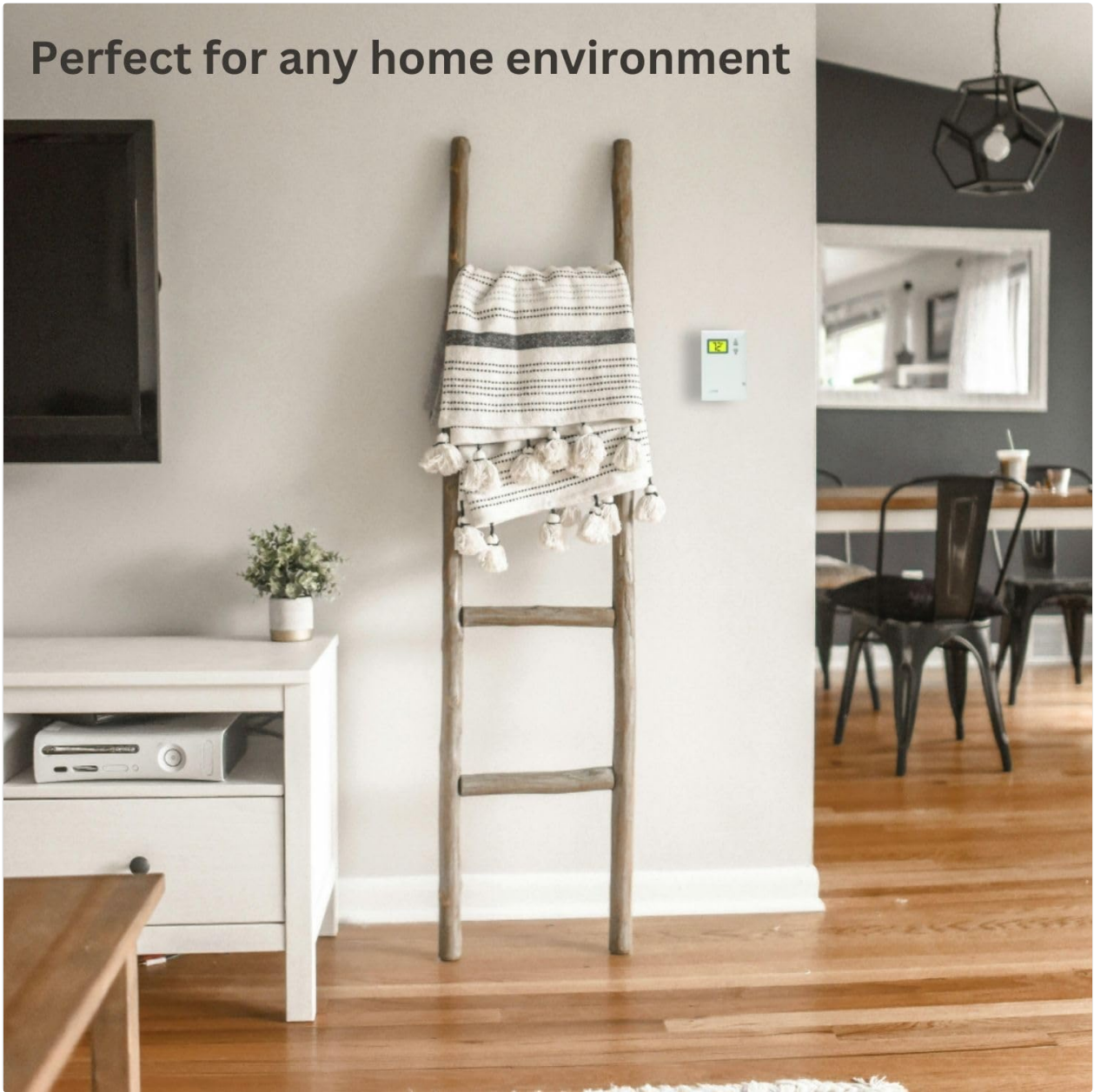


Image 1.2: The LUX Pro PSD010B Thermostat mounted on a wall in a contemporary living room, demonstrating its discreet integration into a home environment.

2. SAFETY INFORMATION

- Always turn off power to the heating system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- This thermostat is designed for low voltage (24V) heating systems or millivolt systems. Do not use with line voltage (120V/240V) systems.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Dispose of batteries according to local regulations. Do not incinerate batteries.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

What's in the box?

- 2 AA LR6 battery
- 2 ST screws
- 2 wall anchors
- Wire label
- Instruction manual



Image 3.1: Visual representation of the items included in the product box: the PSD010B thermostat, two AA LR6 batteries, two ST screws, two wall anchors, and wire labels.

- LUX Pro PSD010B Thermostat
- 2 AA LR6 Batteries
- 2 Mounting Screws (ST screws)
- 2 Wall Anchors
- Wire Labels
- Instruction Manual (this document)

4. INSTALLATION

4.1 Pre-Installation Checklist

- Ensure your heating system is compatible (see Section 6: System Compatibility).
- Gather necessary tools: Phillips screwdriver, wire strippers (if needed), drill (if installing wall anchors).
- Turn off power to your heating system at the circuit breaker or fuse box.

4.2 Removing Your Old Thermostat

1. Turn off the power to your heating system.
2. Remove the cover of your old thermostat.
3. Note the wire connections. This thermostat is designed for 2-wire heat-only systems. Label the wires (e.g., R and W) using the provided wire labels.
4. Disconnect the wires and remove the old thermostat base from the wall.

4.3 Mounting the New Thermostat

1. Separate the front cover from the thermostat base.
2. Position the thermostat base on the wall where the old thermostat was located. Ensure it is level.
3. Mark the mounting holes. If new holes are required, drill pilot holes and insert wall anchors if mounting into drywall.
4. Secure the thermostat base to the wall using the provided screws.

4.4 Wiring

The PSD010B is compatible with 2-wire heat-only systems. Connect the wires from your heating system to the terminals on the thermostat base. Typically, these are R (power) and W (heat call) wires. Ensure connections are tight.

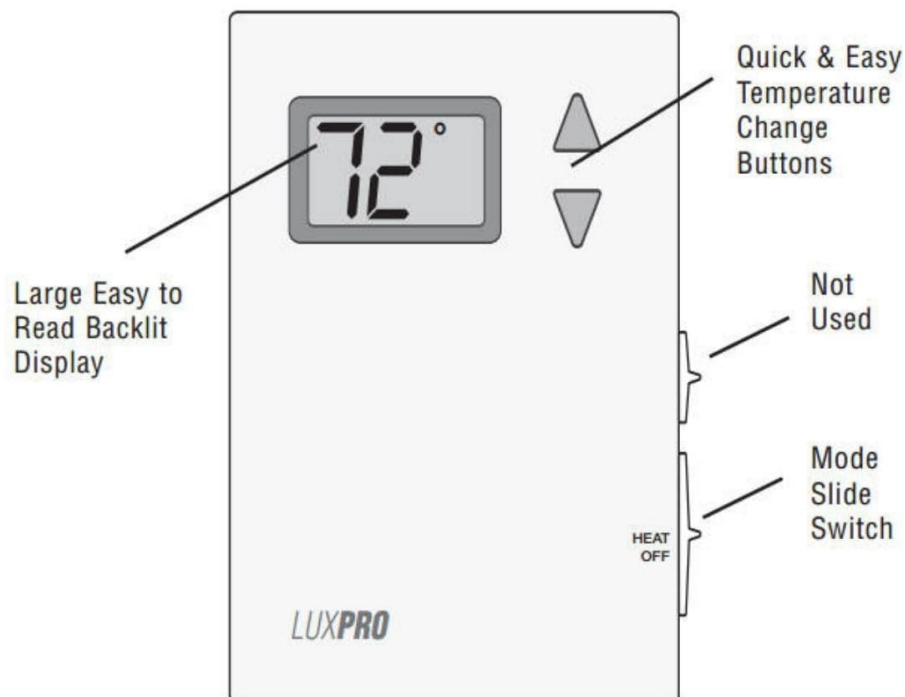
4.5 Battery Installation

1. Insert the two AA batteries into the battery compartment on the back of the thermostat, observing the correct polarity (+/-).
2. Snap the front cover onto the thermostat base.
3. Restore power to your heating system at the main fuse or circuit breaker panel.

5. OPERATION

5.1 Display and Controls Overview

Simple & Intuitive controls



Customizable settings for your needs

Image 5.1: Diagram illustrating the controls of the LUX Pro PSD010B Thermostat, highlighting the large backlit display, quick and easy temperature change buttons (up/down arrows), and the Heat/Off mode slide switch on the side.

- **Digital Display:** Shows the current room temperature and the set temperature. It is backlit for easy reading.
- **Up/Down Buttons:** Used to adjust the desired temperature setting.
- **Mode Slide Switch:** Located on the side of the thermostat. Select 'HEAT' for heating operation or 'OFF' to turn the system off.

5.2 Setting the Temperature

To adjust the desired temperature, use the **Up** or **Down** arrow buttons. The display will show the set temperature as you adjust it, then revert to showing the current room temperature after a few seconds. The thermostat will automatically activate your heating system when the room temperature falls below your set temperature.

5.3 Mode Selection

Use the slide switch on the side of the thermostat to select the operating mode:

- **HEAT:** The thermostat will control your heating system to maintain the set temperature.
- **OFF:** The heating system will remain off.

5.4 Fahrenheit/Celsius Selection

The thermostat allows selection between Fahrenheit and Celsius temperature display. Refer to the detailed specifications or the full manual for instructions on how to switch this setting, typically involving a button combination or a switch on the circuit board.

5.5 Adjustable Temperature Limits

The thermostat features adjustable temperature limits, allowing you to set a minimum and maximum temperature range. This prevents the temperature from being set too high or too low. Consult the full manual for instructions on how to configure these limits.

6. SYSTEM COMPATIBILITY

The LUX Pro PSD010B thermostat is designed for specific heating systems. Please review the compatibility information below before installation.

System Compatability

HEAT (24V) COMPATIBLE

- ✓ 2-wire Hydronic (Hot Water)
- ✓ 750 Milivolt
- ✓ Gas Fireplaces (24V)

NOT COMPATIBLE WITH:

- X Heat Pump Multistage
- X Radiant Ceiling Heat
- X Electric Baseboards
- X Heat Pump w/ Auxiliary Heat
- X Portable space heaters
- X 3-wire Hydronic (Hot Water)
- X Gas/ Oil/ Electric Furnace - Multistage
- X Cool Multistage
- X Cooling only
- X Plug-in air conditioners
- X Heat Pump w/o Auxiliary Heat
- X Gas/ Oil/ Electric Furnace - Heating only
- X Gas/ Oil/ Electric Furnace - Single Stage

Image 6.1: A chart detailing the system compatibility of the LUX Pro PSD010B Thermostat. It is compatible with 2-wire Hydronic (Hot Water), 750 Millivolt, and Gas Fireplaces (24V). It is not compatible with Heat Pump Multistage, Radiant Ceiling Heat, Electric Baseboards, Heat Pump w/ Auxiliary Heat, Portable space heaters, 3-wire Hydronic (Hot Water), Gas/Oil/Electric Furnace - Multistage, Cool Multistage, Cooling only, Plug-in air conditioners, Heat Pump w/o Auxiliary Heat, Gas/Oil/Electric Furnace - Heating only, and Gas/Oil/Electric Furnace - Single Stage.

Compatible Systems (Heat Only - 24V or Millivolt)

- 2-wire Hydronic (Hot Water) systems
- 750 Millivolt systems (e.g., gas fireplaces, floor furnaces)
- Gas Fireplaces (24V)

Not Compatible With

- Heat Pump Multistage systems
- Radiant Ceiling Heat
- Electric Baseboards
- Heat Pump with Auxiliary Heat
- Portable space heaters
- 3-wire Hydronic (Hot Water) systems

- Gas/Oil/Electric Furnace - Multistage
- Cool Multistage systems
- Cooling only systems
- Plug-in air conditioners
- Heat Pump without Auxiliary Heat
- Gas/Oil/Electric Furnace - Heating only (if it requires a fan control)
- Gas/Oil/Electric Furnace - Single Stage (if it requires a fan control)

7. MAINTENANCE

7.1 Battery Replacement

The thermostat is powered by two AA batteries. When the battery power is low, a low battery indicator will appear on the display. Replace batteries annually or when the low battery indicator appears to ensure continuous operation.

1. Gently pull the bottom of the thermostat cover forward to release it from the base.
2. Remove the old AA batteries.
3. Insert two new AA alkaline batteries, ensuring correct polarity.
4. Snap the cover back onto the thermostat base.

7.2 Cleaning

Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Avoid spraying liquids directly onto the thermostat.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or blank screen	Dead or incorrectly installed batteries	Replace batteries with new AA alkaline batteries, ensuring correct polarity.
Heating system not turning on	<ul style="list-style-type: none"> • Power to heating system is off • Thermostat mode set to 'OFF' • Temperature setting too low • Loose wiring connections 	<ul style="list-style-type: none"> • Check circuit breaker/fuse. • Set mode switch to 'HEAT'. • Increase set temperature above current room temperature. • Check wiring connections at thermostat and heating system.
Inaccurate temperature reading	Thermostat located near heat source/draft, or internal sensor issue.	Ensure thermostat is not exposed to direct sunlight, drafts, or heat sources. If problem persists, contact support.

9. SPECIFICATIONS

- Digital, Non-Programmable
- Battery Powered Only
- Set Temperature Range 40°F to 90°F
- Clean, Attractive Design
- Large, Easy To Read Display with LED Backlight
- Easy To Install
- F / C Selectable Temperature Display
- 5 Minute Minimum Run / Off Time For Equipment Protection
- Adjustable Temperature Stop

Image 9.1: A detailed list of features for the LUX Pro PSD010B Thermostat, including digital, non-programmable operation, battery power, temperature range of 40°F to 90°F, clean design, large backlit display, easy installation, F/C selectable display, 5-minute minimum run/off time, and adjustable temperature stop.

- **Model:** PSD010B
- **Type:** Mechanical, Non-Programmable
- **System Compatibility:** 1 Heat Only (2-wire Hydronic, 750 Millivolt, 24V Gas Fireplaces)
- **Power Source:** 2 AA Batteries (included)
- **Temperature Range:** 40°F to 90°F (4°C to 32°C)
- **Display Type:** Digital, Backlit LCD
- **Control Type:** Button Control (Up/Down arrows), Slide Switch (Heat/Off)
- **Dimensions:** 1.13"D x 5"W x 3.5"H
- **Item Weight:** 0.4 Pounds (6.4 ounces)
- **Voltage:** 24 Volts (compatible with millivolt systems)
- **Material:** Plastic
- **Mounting Type:** Wall Mount
- **UPC:** 021079070107

10. WARRANTY AND SUPPORT

The LUX Pro PSD010B Thermostat comes with a **5-Year Limited Warranty**, ensuring reliable performance and peace of mind. For warranty claims, technical assistance, or further inquiries, please refer to the contact information provided with your product packaging or visit the official LUX website.



Adjustable
Temperature Limits



LIMITED WARRANTY
5
YEAR



Image 10.1: The LUX Pro PSD010B Thermostat displayed with icons highlighting its key features: a backlit display, adjustable temperature limits, battery-only power, and a 5-year limited warranty.


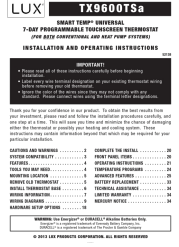



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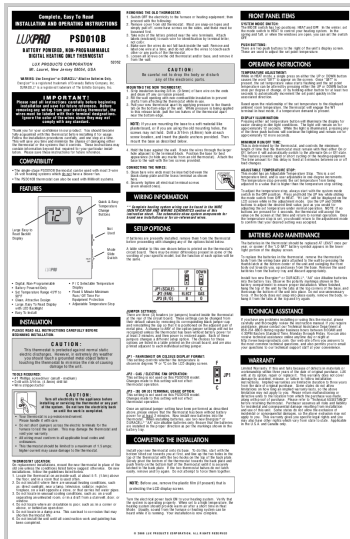
Related Documents - PSD010B



[LUX 105/2110 Series Heat Pump Digital Mechanical Thermostat Installation and Operating Instructions](#)

Comprehensive installation and operating guide for the LUX 105/2110 Series Heat Pump Digital Mechanical Thermostat. Includes setup, wiring, features, and troubleshooting.

	<p>LUX TX700U Universal Thermostat: Installation Guide & Features</p> <p>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.</p>
	<p>LUX TX9600TSa Smart Temp Universal 7-Day Programmable Touchscreen Thermostat: Installation and Operating Instructions</p> <p>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.</p>
	<p>LUX TX500E Programmable Thermostat Installation and Operation Manual</p> <p>Comprehensive guide for installing, operating, and programming the LUX TX500E programmable thermostat. Covers compatibility, features, installation steps, wiring diagrams, system configuration, advanced features, programming, maintenance, technical support, and warranty information.</p>
	<p>LUX TX500E Programmable Thermostat: Installation, Operation, and Wiring Guide</p> <p>Comprehensive guide for the LUX TX500E Programmable Thermostat, featuring installation steps, operating instructions, programming features, wiring diagrams, and technical support information from LUX Products Corporation.</p>
	<p>LUX DMH110b Lighted Non-Programmable Thermostat Installation and Operating Instructions</p> <p>Comprehensive installation and operating instructions for the LUX DMH110b Lighted Non-Programmable Thermostat. Covers system compatibility, features, tools, removal, mounting, installation, wiring, system configuration, operation, advanced features, battery replacement, warranty, and technical support.</p>



[LuxPro PSD010B Digital Non-Programmable Thermostat Installation and Operating Instructions](#)

Comprehensive guide for installing and operating the LuxPro PSD010B battery-powered, non-programmable digital heating-only thermostat. Includes compatibility, features, installation steps, wiring diagrams, setup options, operating instructions, maintenance, and warranty information.

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[LuxPro PSD010B & PSD010BF Digital Thermostats for Heat-Only Systems](#)

Explore the LuxPro PSD010B and PSD010BF digital thermostats, ideal for heat-only systems including fireplaces, stoves, and in-floor radiant heating. These thermostats offer digital accuracy, battery power, easy installation, and clear backlit displays.

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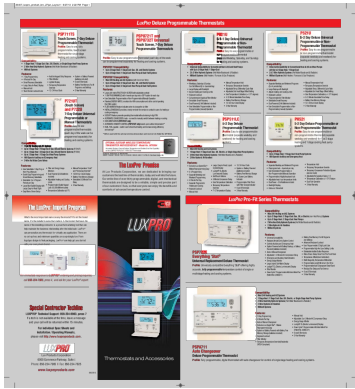


[\[pdf\] Installation Guide](#)

21150 psd010b f qxp Charles Jones PSD010B PSD010BF Boston Heating SupplyIntroducing the and two new thermostats from LuxPro® that are perfect controls for heating only systemsPSD010BF Spec Sheetbostonheatingsupply Luxpro Sheet |||

21150_psd010b_f.qxp 11/19/08 1:31 PM Page 1 **PSD010B PSD010BF** DIGITAL THE RMOSTATS FOR HEAT-ONLY SYSTE MS Introducing the **PSD010B** and **PSD010BF**, two new thermostats from LuxPro that are the perfect controls for heating-only systems such as fireplaces, pellet burning stoves, wood burning stoves, CO...

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[LuxPro Thermostats: Programmable, Digital, and Mechanical HVAC Control Solutions](#)

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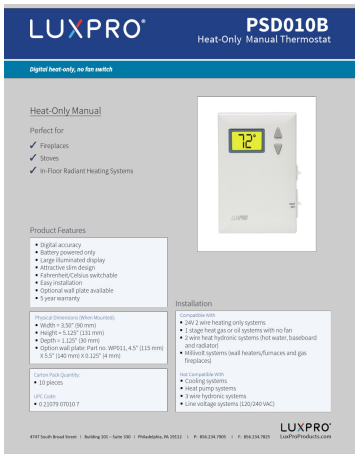
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manuals 1273847550533 1273849482402 1273867071557 product files

LUX PRODUCTS CORPORATION: Thermostat 3-Year Limited Warranty Limited

Warranty: If this unit fails because of defects in materials or workmanship within three years of the date of original purchase, LUX will, at its option, repair or replace it. This warranty does not cover damage by accident, misuse...

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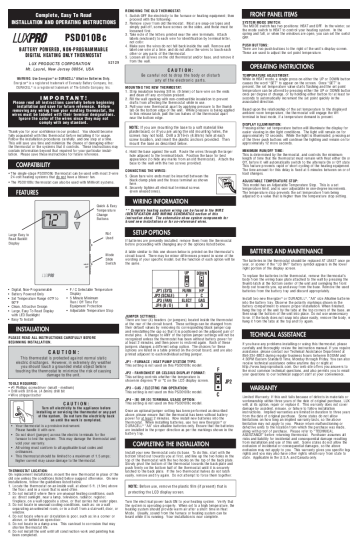
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Digital heat-only, no fan switch Heat-Only Manual Perfect for Fireplaces Stoves In-Floor Radiant Heating Systems **PSD010B** Heat-Only Manual Thermostat Product Features Digital accuracy Battery powered only Large illuminated display Attractive slim design Fahrenheit/Celsius switchable Easy i...

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Complete, Easy To Read INSTALLATION AND OPERATING INSTRUCTIONS
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.....38
PSD010B.....
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[LUX Thermostats: Smart, Programmable, and Mechanical Control Solutions](#)

Explore the comprehensive range of LUX thermostats, including smart, programmable, and mechanical models. Find the perfect HVAC control solution for residential and commercial applications, featuring advanced features and reliable performance.

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Pro Services Pro Products Pro Solutions TABLE OF CONTENTS Smart
Thermostats..... ..

.....40

PSD010B..... ..

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[LuxPro Thermostats: Programmable, Digital, Mechanical & Contractor Solutions](#)

Lux Products Corporation presents a comprehensive catalog of LuxPro thermostats, featuring programmable, digital, and mechanical models for residential and commercial HVAC systems. Discover solutions for enhanced comfort, energy savings, and reliable temperature control, including the specialized LuxPro Imprint Program for contractors.

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[pdf] Specifications

SPECIFICATION Lux Products 240V 1 Stage Line Voltage Cooling Non Programmable Thermostat

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Pro Services Pro Products Pro Solutions TABLE OF CONTENTS Smart
Thermostats..... ..

.....38

PSD010B..... ..

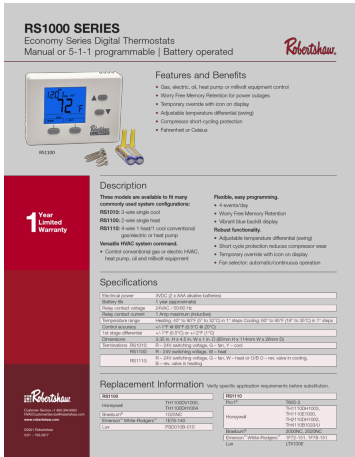
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[LUX Thermostats and Accessories: Smart, Programmable, and Non-Programmable Solutions](#)

Discover the full spectrum of LUX thermostats, from advanced smart home integration with KONO, GEO, and GEOx models to reliable programmable and non-programmable options like the LUXPro series. This catalog also features essential accessories for enhanced comfort and energy efficiency.

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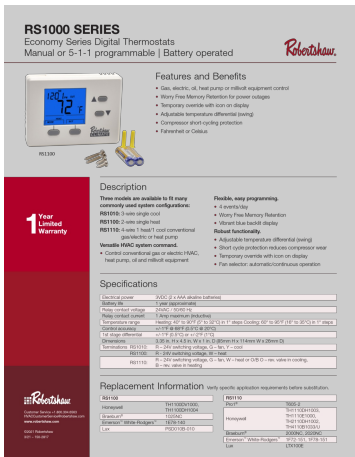


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Specification Sheet Robertshaw RS1110 Economy Series of 5 1 Day Digital Programmable Thermostat skipthefarehouse index route extension module mmos attachmanager getfile product attach file id 18326 |||

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