Centralite 3000-wC

Centralite Pearl Thermostat (Model 3000-wC) User Manual

Model: 3000-wC

1. INTRODUCTION

The Centralite Pearl Thermostat is designed to provide precise temperature control with an intuitive touch interface. It integrates seamlessly with various smart home platforms using ZigBee connectivity, offering efficient management of residential HVAC systems. This manual provides essential information for installation, operation, and maintenance of your Pearl Thermostat.

2. KEY FEATURES

- Compatible with SmartThings, Spectrum, Cox, Time Warner Cable, Vera, and ZigBee platforms.
- Supports up to 2-stage heat and 2-stage cool HVAC systems.
- Designed for quick installation, typically within 15 minutes.
- Features a built-in power amplifier for extended wireless range.
- Equipped with responsive touch controls for user interaction.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Pearl Thermostat
- Mounting Screws (4)
- AA Batteries (4)
- Quick Start Guide
- Wiring Labels

4. INSTALLATION

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

4.1 Mounting the Backplate

1. Carefully remove your old thermostat from the wall. Note the wiring connections before disconnecting.
2. Mount the Pearl Thermostat backplate to the wall using the provided mounting screws. Ensure it is level.

4.2 Wiring

The Pearl Thermostat features quick-connect terminals for tool-free wiring. Match the wires from your HVAC system to the corresponding terminals on the thermostat backplate. Use the included wiring labels for identification.

Figure 1: Rear view of the Pearl Thermostat backplate, illustrating battery compartments and quick-connect wiring terminals for HVAC system connection.

Common wiring configurations include:

- **R/Rc/Rh:** 24V AC power (usually red wire)
- **C:** Common wire (for continuous 24V power, often blue or black)
- **W/W1:** Heat (usually white wire)
- **Y/Y1:** Cool (usually yellow wire)
- **G:** Fan (usually green wire)
- **O/B:** Reversing valve for heat pumps

Insert each stripped wire end into its corresponding terminal until it is securely held.

4.3 Battery Installation

Insert the four AA batteries into the designated compartments on the back of the thermostat unit. Ensure correct polarity.

4.4 Attaching the Thermostat

Align the thermostat unit with the mounted backplate and gently push until it clicks into place. Restore power to your HVAC system at the circuit breaker.

5. OPERATING INSTRUCTIONS

The Pearl Thermostat features a clear LCD display and intuitive touch controls for easy operation.

Figure 2: Front view of the Pearl Thermostat, highlighting the digital display and touch-sensitive buttons for Mode, Hold, and Fan functions.

5.1 Adjusting Temperature

Use the **+** and **-** touch areas on the right side of the thermostat to increase or decrease the desired temperature set point.

Figure 3: User interaction with the Pearl Thermostat's touch screen to modify temperature settings.

5.2 Mode Selection

Press the **MODE** button to cycle through available operating modes: Heat, Cool, Auto, Off.

5.3 Hold Function

Press the **HOLD** button to maintain the current temperature setting indefinitely, overriding any programmed schedules. Press again to release the hold and resume the schedule.

5.4 Fan Control

Press the **FAN** button to cycle through fan settings: Auto (fan runs only when heating or cooling) or On (fan runs continuously).

6. MAINTENANCE

6.1 Battery Replacement

The Pearl Thermostat is powered by four AA batteries. When the battery level is low, a low battery indicator will appear on the display. To replace batteries:

1. Gently pull the thermostat unit off its backplate.

2. Remove the old AA batteries and dispose of them properly.

3. Insert four new AA alkaline batteries, ensuring correct polarity.

4. Reattach the thermostat unit to the backplate.

Regular battery replacement ensures uninterrupted operation and maintains ZigBee connectivity.

6.2 Cleaning

Wipe the thermostat's surface with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the display and finish.

7. TROUBLESHOOTING

If you encounter issues with your Pearl Thermostat, refer to the following common troubleshooting steps:

- **No Display/Power:** Check if the AA batteries are correctly installed and fully charged. Ensure power to the HVAC system is on at the circuit breaker.

- **HVAC System Not Responding:** Verify that the wiring connections to the backplate are secure. Confirm the thermostat is in the correct operating mode (Heat/Cool/Auto).

- **Connectivity Issues (ZigBee):** Ensure your smart home hub is powered on and within range. Refer to your smart home hub's instructions for device pairing. You may need to initiate a re-pairing process.

- **Incorrect Temperature Readings:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its internal sensor.

- **Thermostat Not Responding to Touch:** Gently clean the screen surface. If the issue persists, try removing the thermostat from its backplate, waiting 30 seconds, and reattaching it to perform a soft reset.
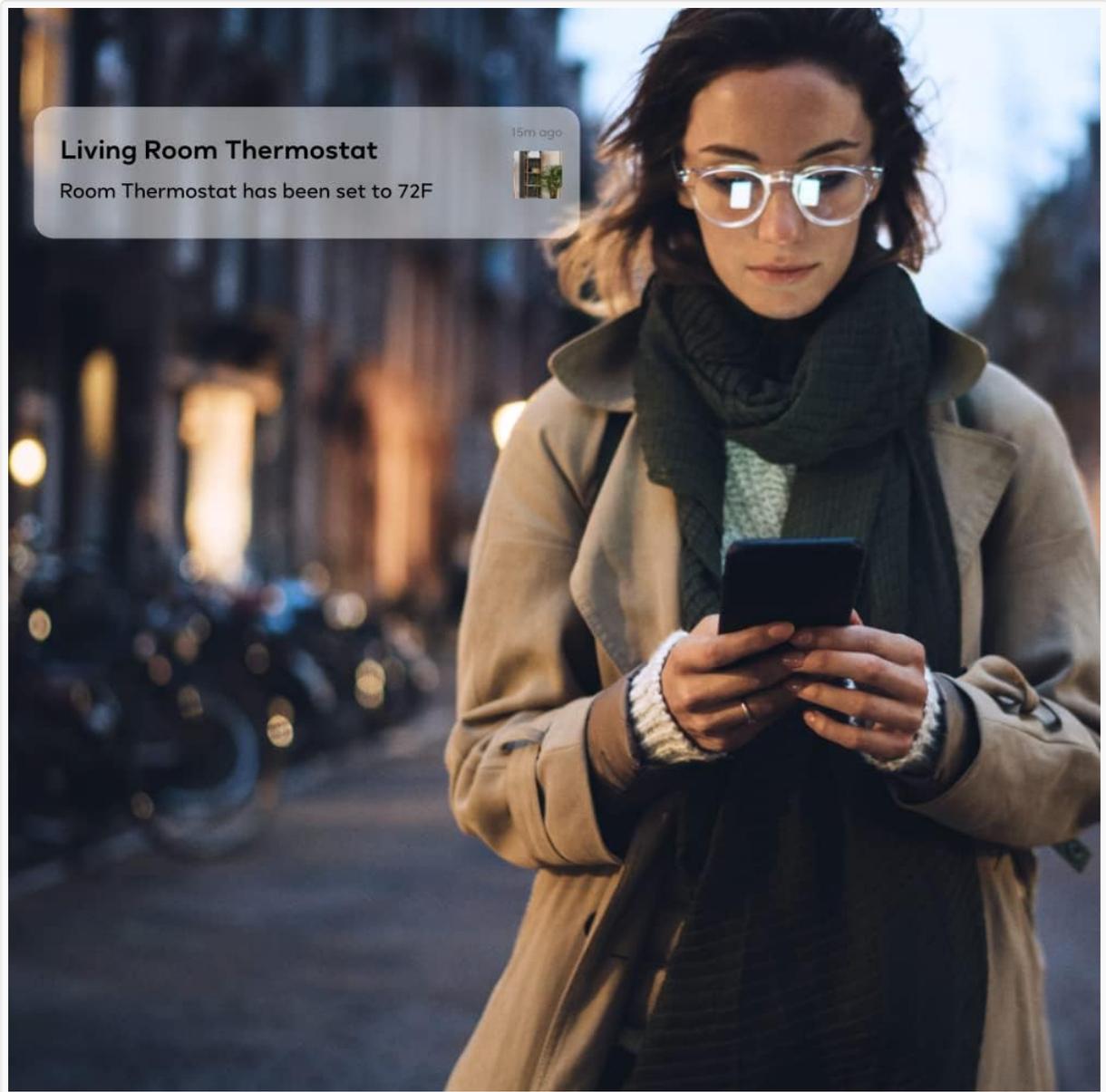
8. SPECIFICATIONS

Figure 4: Dimensions of the Centralite Pearl Thermostat.

Specification	Detail
Brand	Centralite
Model Name	Centralite Pearl Thermostat
Model Number	3000-wC
Controller Type	SmartThings, Vera
Color	White
Temperature Control Type	Programmable, Digital
Connectivity Technology	ZigBee
Power Source	Battery Powered (4 AA batteries, included)
Item Weight	0.97 Pounds (approx. 15.5 ounces)
Voltage	230 Volts (HVAC system)

Material	Pearl
Display Type	LCD
Finish Type	Satin
Control Type	Touchpad Control
Control Method	App
Mounting Type	Wall Mount
Backlight	Yes
Product Dimensions (L x W x H)	5.33 x 1.13 x 4.13 inches
UPC	812489022264

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Centralite website. Keep your purchase receipt as proof of purchase.