

# Product Data Sheet

## Pearl Thermostat

3000-G

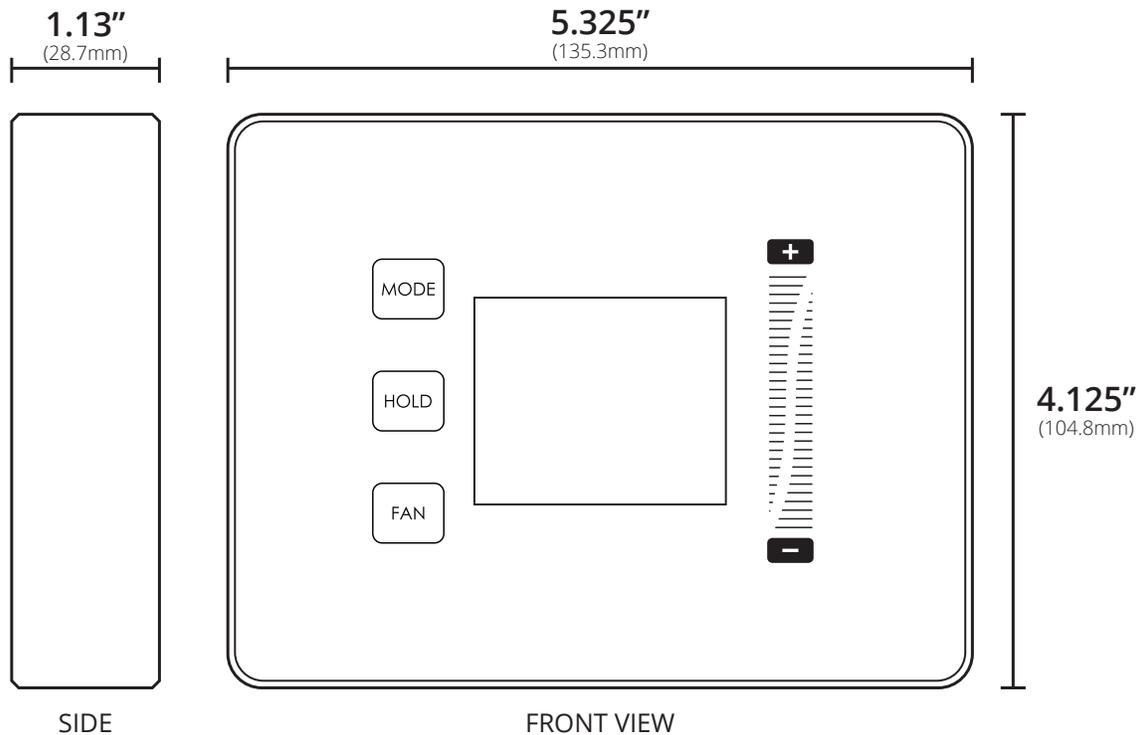


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### Product Overview

Centralite's Pearl Thermostat is a revolutionary thermostat that combines contemporary aesthetics with easy-to-use controls. Utilizing a capacitive touch display, the thermostat delivers precise control and an unparalleled user experience. Features include a built-in power amplifier, up to a two-year battery life, and compatibility with most residential HVAC systems. With quick-connect terminals for tool-free wiring, installation is a breeze.

### Dimensions



### In the Box:

- 1x - Pearl Thermostat
- 4x - Mounting Screws
- 4x - AA Batteries
- 1x - Quick Start Guide
- 1x - Wiring Labels

### Key Features:

- Capacitive touch controls.
- Control up to 2 stage heat / 2 stage cool.
- Built-in temperature sensor
- Built-in power amplifier for exceptional range.
- Easy compatibility with other manufacturers' ZigBee HA 1.2 devices.
- Over-the-air firmware updates.

## Use Cases

- The right temperature *where* you want it.
- Measure comfort, not just temperature.

### **The right temperature *where* you want it.**

Most homes have thermostats placed in hallways, dining rooms, and kitchens but we spend very little our time in these areas. Since most homes do not have a properly balanced HVAC system, this leads to cold and hot spots throughout the house. By adding a temperature sensor to different areas of your home, the Pearl can now keep that room at the right temperature.

### **Measure comfort, not just temperature.**

Fluctuations in humidity levels have drastic effects on the temperature that your body “feels.” When

- Save money with scheduling.
- Use schedules to provide more comfort.

paired with a 3-Series Temp & Humidity Sensor, your system can respond to your comfort level, not just temperature. The Temp & Humidity Sensor can also alleviate problems like damp basements or mold issues in the summer by triggering your air conditioner to run when high humidity is detected.

### **Save money with scheduling.**

Adding a programmed setback to your HVAC system while you’re away can save over 20% on your electricity bill. By setting schedules and having occupancy sensors know when you’re home and away, the Pearl can reduce the work your HVAC system has to do.

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## Special Features

### **Capacitive Touch Screen**

The Pearl Thermostat is controlled using intuitive capacitive touch controls. Without physical buttons, the Pearl can be controlled with features like slide-up/slide-down to adjust the temperature set point.

### **ZigBee Home Automation 1.2 Compatibility**

The Pearl Thermostat is fully ZigBee HA 1.2 certified and is guaranteed to function with all open, ZigBee HA 1.2-certified hubs and devices.

### **Superior Range and Updatability**

The Pearl Thermostat includes a built-in power amplifier, giving the module superior range and stability in large homes or areas with wireless interference.

The Pearl also supports over-the-air updates providing for seamless upgrades and feature additions without the need for any user interaction.

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## Getting Started

### **Step 1: Open ZigBee Network for Joining**

Using your controller or hub’s interface, enable the ZigBee network for joining.

### **Step 2: Pull Tab from Battery Terminals**

Pull the small plastic tab out of the battery terminals and the thermostat will immediately begin searching for a network to join.

### **Step 2: Finish Joining at Hub (optional)**

Some hubs and controllers require additional steps such as naming or categorizing the device.

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## Troubleshooting

### **Step 1: Remove and Replace Battery from Device**

Remove front from base. Remove batteries and replace with new AA batteries. Reassemble and test operation.

### **Step 2: Factory Reset and Rejoin**

Enter Programming Mode, navigate to Menu ID “17”, press HOLD, then navigate to option “11”, then press HOLD again. The device will then factory reset itself and begin looking for an open network to join.

## Compatibility

The Pearl Thermostat features out-of-the-box compatibility with any ZigBee HA 1.2-certified hub, controller, bridge, or platform.

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## Technical Specifications

### Power

Rated: 24V (common wire)  
3V (batteries)  
Battery: AA (4x)  
Battery Life: 2 to 3 years

### Environmental

Operating Temperature: 0° to 40°C

### Shipping / Storage

Temperature: -20° to 50°C  
Humidity Range: 0 to 90% RH.  
(non-condensing)

Approvals:    

### Wireless RF

Protocol: ZigBee HA 1.2  
TX Strength: +20 dBm  
RF Channels: 16  
Range: 300+ ft. (90+ m) L.O.S.  
Temp Accuracy: ±1.8 °C (max), -10 to 85 °C  
Precision: ± 0.1 °C

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## Support

Centralite offers both Tier-1 and Tier-2 support structures to meet the needs of different customers. For those customers that provide existing, in-house support for systems, Centralite can serve as Tier-2 support specialists. For Centralite retail-branded products, Centralite provides direct Tier-1 support for all products.

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## Standard Warranty

Centralite offers a standard 12-month limited warranty on the Pearl Thermostat.

Additional mandatory warranty period in compliance with local law product is being sold.

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## Contact Sales

For more information about sales or distribution, please contact:

877-466-5483  
+1 251-607-9119 (Int'l)  
sales@centralite.com

Centralite Systems, Inc.  
1701 Industrial Park Drive  
Mobile, AL 36693

<http://centralite.com>

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