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> Lennox S40 (22V24) Smart Thermostat, Touchscreen, WiFi, Communicating System Control, Programmable, High Efficiency, Geo-Fencing, Remote Access, Wi-Fi and Alexa Enabled, Easy Installation

## Lennox S40 (22V24)

# Lennox S40 Smart Thermostat User Manual

Model: 22V24

## PRODUCT OVERVIEW

The Lennox S40 Smart Thermostat is a sophisticated control unit designed to integrate seamlessly with Lennox communicating HVAC systems. It automatically configures and controls your heating and cooling system for optimal comfort, performance, and energy efficiency. Featuring a 7-inch high-definition color touchscreen, the S40 provides an intuitive interface for complete system configuration and monitoring.

Key functionalities include:

- **Communicating System Control:** Recognizes and connects to Lennox communicating products for simplified setup and enhanced performance.
- **Programmable Schedules:** Offers up to four separate schedules, including Schedule IQ, to optimize energy usage based on your lifestyle.
- **Smart Away Mode:** Utilizes geo-fencing technology to automatically adjust temperature settings when you leave or approach your home, maximizing energy savings.
- **Weather-On-Demand:** Provides live, up-to-date weather data and seven-day forecasts directly on the display.
- **Integrated Alerts:** Displays scheduled maintenance alerts, system warnings, and troubleshooting information.
- **Remote Access:** Wi-Fi enabled for remote control via the Lennox Home app and compatibility with voice assistants like Amazon Alexa.

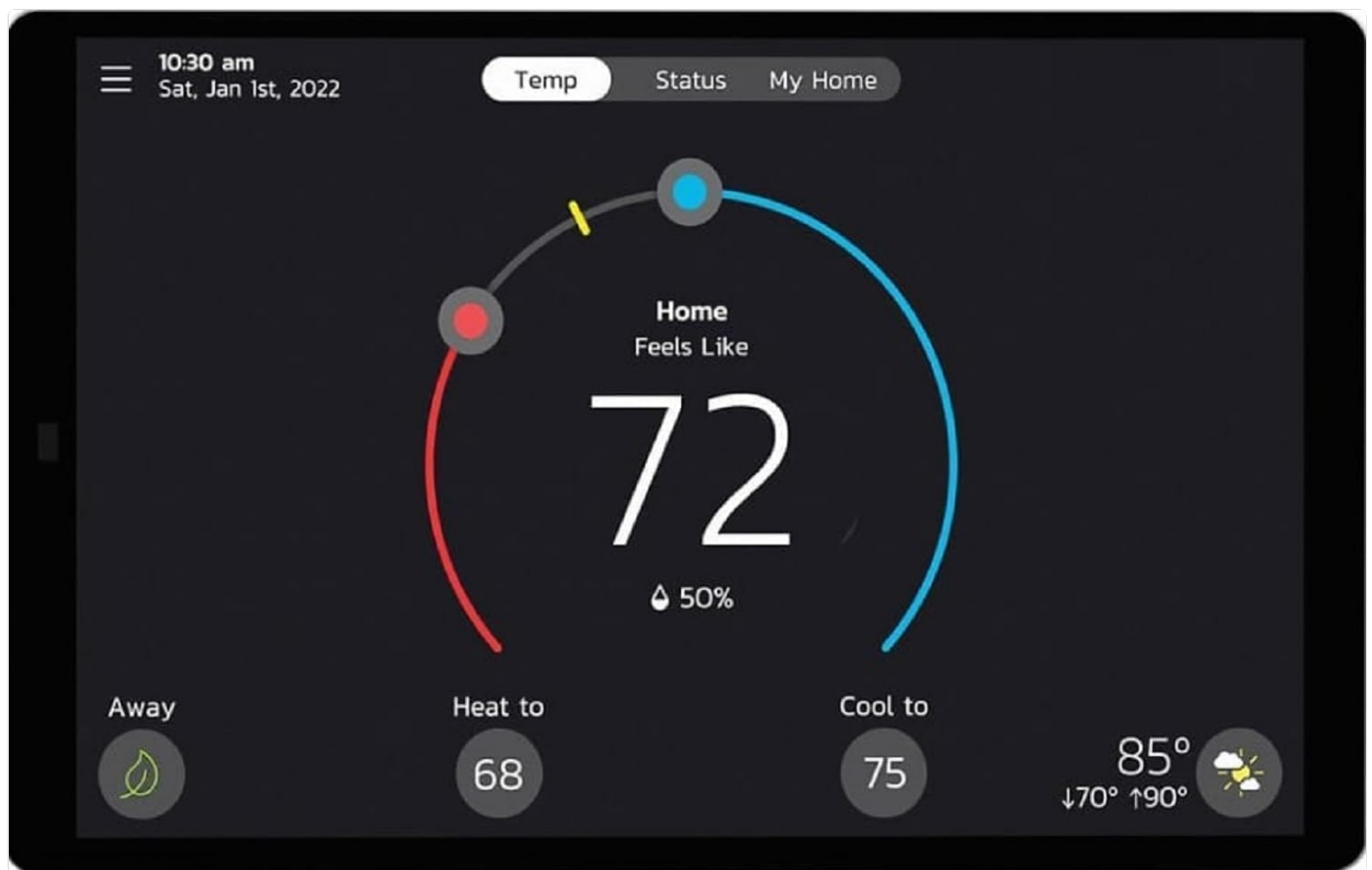


Figure 1: Lennox S40 Smart Thermostat Main Display. The intuitive touchscreen shows current temperature, set points, and system status.

## SETUP

The Lennox S40 Smart Thermostat is designed for straightforward installation, often facilitated by a Lennox Smart Technician app for quick setup. While professional installation is recommended for optimal system integration, basic setup can be performed via the thermostat's on-screen prompts or a mobile application.

### Installation Considerations:

- **Wiring:** The thermostat uses 4-wire standard thermostat wiring. For communication terminals (I+ and I-), 18-22AWG shielded thermostat cable is highly recommended to minimize noise interference.
- **Compatibility:** The S40 Smart Thermostat (with optional Equipment Interface Module 22X18) is compatible with most 24VAC furnaces, air conditioners, air handlers, and heat pumps (up to 3 stages of heat and 2 stages of cooling). **Important: It is not compatible with communicating HVAC equipment from brands other than Lennox.**

### Initial Setup Process:

1. **Power On:** Once correctly wired and mounted, the thermostat will power on and display initial setup screens.
2. **Choose Setup Route:** You will typically be prompted to choose between setting up through the thermostat itself or via a mobile app (e.g., Lennox Smart Technician app).
3. **System Configuration:** Follow the on-screen instructions to configure your HVAC system. This may involve selecting system type (heating/cooling stages), fan settings, and other operational parameters. The thermostat can often auto-configure when connected to Lennox communicating products.
4. **Network Connection:** Connect the thermostat to your home's Wi-Fi network to enable remote access, weather updates, and smart features.

5. **Account Setup:** Create or log in to your Lennox Home account to manage your thermostat remotely and access advanced features.



Figure 2: Detailed view of the Lennox S40 Smart Thermostat's main screen with labeled elements for user understanding. This screen is central to operating and monitoring your system.

## OPERATING THE THERMOSTAT

The Lennox S40 Smart Thermostat offers various modes and scheduling options to maintain optimal indoor climate. Its large touchscreen display provides easy access to all functions.

### Main Screen Functions:

- **Temperature Display:** Shows the current indoor temperature and the "Feels Like" temperature, which accounts for humidity.
- **Set Points:** Easily adjust heating and cooling set points by tapping the desired temperature range on the circular display.
- **Away Mode:** Activate "One-Touch Away Mode" to quickly set energy-saving temperatures when leaving the home. The "Smart Away" feature uses geo-fencing to automate this based on your location.
- **System Status:** View the operational status of your HVAC system, including active heating/cooling, fan operation, and any connected accessories like Smart Room Sensors or Air Quality Monitors.

- **Weather Information:** Access live weather data and a seven-day forecast directly from the thermostat screen.

## Modes and Schedules:

- **Select Mode:** Choose between "Cool Only," "Heat Only," "Heat/Cool," or "Off."
- **Schedules:** Utilize predefined schedules (e.g., Summer, Winter, Spring/Fall) or create custom schedules to automate temperature changes throughout the day and week. "Schedule IQ" intelligently adapts to your routine.
- **Energy Saving:** Access specific energy-saving modes to reduce consumption.

## Remote Control and Voice Integration:

The S40 Smart Thermostat can be controlled remotely via the Lennox Home app on your smartphone or tablet. It is also compatible with Amazon Alexa, allowing for voice commands to adjust settings.

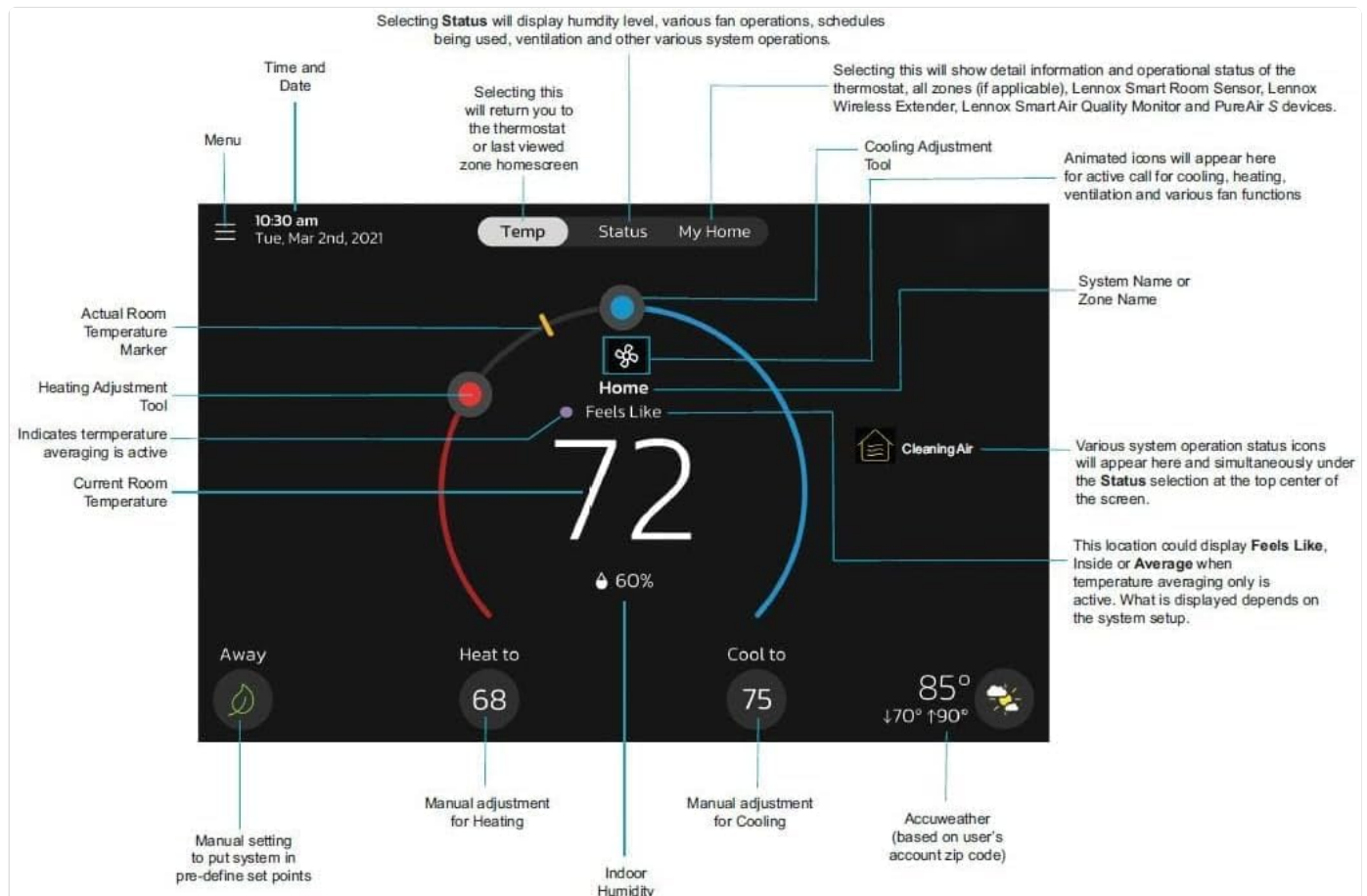


Figure 3: The Lennox S40 Smart Thermostat's sleek design integrates well into any home environment.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Lennox S40 Smart Thermostat and connected HVAC system. The thermostat provides built-in features to assist with maintenance.

- **Scheduled Maintenance Alerts:** The thermostat displays alerts for routine maintenance tasks, such as filter changes or system checks. Adhering to these alerts helps maintain system efficiency and air quality.
- **System Monitoring:** The Service Dashboard feature allows for online real-time monitoring of installed smart digitally enabled systems, providing insights into performance and potential issues.
- **Installer Tests:** For advanced diagnostics or component checks, an installer can run tests on the complete system

or individual components directly from the thermostat's interface.

- **Cleaning:** Periodically wipe the touchscreen with a soft, damp cloth to keep it clean and responsive. Avoid abrasive cleaners.

## TROUBLESHOOTING

The Lennox S40 Smart Thermostat is designed to provide system warnings and troubleshooting information directly on its screen. Here are some common issues and considerations:

- **System Warnings:** Pay attention to any alerts or warning messages displayed on the thermostat. These often indicate specific issues that require attention.
- **Connectivity Issues:** If the thermostat loses Wi-Fi connection, verify your home network is operational. Re-establish the connection through the thermostat's settings menu.
- **Temperature Inaccuracies:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its temperature readings.
- **System Not Responding:** Check the wiring connections at the thermostat and your HVAC unit. Ensure power is supplied to both. If using an Equipment Interface Module (EIM), verify its connections.
- **Compatibility Note:** The Lennox S40 Smart Thermostat is specifically designed for Lennox communicating HVAC equipment. **It will NOT work with any brand of communicating HVAC equipment other than LENNOX.** If you have a non-communicating conventional HVAC system, an optional Equipment Interface Module (EIM) is required for compatibility.
- **Professional Assistance:** For complex issues or if you are unsure about troubleshooting steps, it is recommended to contact a certified Lennox technician. They can utilize the Lennox Smart Technician app and installer setup screens for advanced diagnostics.

## SPECIFICATIONS

| Feature           | Detail       |
|-------------------|--------------|
| Brand             | Lennox       |
| Model Name        | S40          |
| Item Model Number | 22V24        |
| Controller Type   | Amazon Alexa |
| Special Feature   | Programmable |
| Color             | Black        |

| Feature                  | Detail                                                                                                                                              |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Control Type | Automatic                                                                                                                                           |
| Connectivity Technology  | Wi-Fi                                                                                                                                               |
| Included Components      | Smart Room Sensor, Smart Air Quality Monitor, Wireless Extender, Lennox Smart Technician app, Equipment Interface Module (EIM), In-Zone Thermostats |
| Power Source             | Electric Power Source                                                                                                                               |
| Voltage                  | 22 Volts                                                                                                                                            |
| Display Type             | Touchscreen                                                                                                                                         |
| Screen Size              | 7 Inches                                                                                                                                            |
| Control Method           | App, Voice                                                                                                                                          |
| Mounting Type            | Wall Mount                                                                                                                                          |
| Item Weight              | 1.68 pounds                                                                                                                                         |
| Package Dimensions       | 11.5 x 10.16 x 2.91 inches                                                                                                                          |

## WARRANTY AND SUPPORT

Lennox products are known for their quality and are typically backed by comprehensive warranties. Based on customer feedback, the Lennox S40 Smart Thermostat may come with a **10-year warranty** when installed by a factory-authorized representative. It is advisable to confirm specific warranty terms with your Lennox dealer or installer.

For support, you can utilize the **Lennox Smart Technician app** for installation and troubleshooting assistance. The thermostat's **Service Dashboard** also provides real-time monitoring for installed systems, which can aid in diagnostics and support.

For further assistance, please refer to the official Lennox website or contact their customer support channels.

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### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**