Emerson ST76

Sensi Touch 2 Smart Thermostat User Manual

Model: ST76 | Brand: Emerson

1. Introduction

This user manual provides comprehensive instructions for the Sensi Touch 2 Smart Thermostat (Model ST76). Designed by Emerson, this smart thermostat offers advanced control over your home's heating and cooling, combining touchscreen functionality with Wi-Fi connectivity for remote management. It is built with a focus on data privacy and energy efficiency, helping you save on HVAC energy usage.

The Sensi Touch 2 is an ENERGY STAR certified device, designed for easy do-it-yourself installation with the assistance of the Sensi mobile application. It integrates seamlessly with popular smart home systems, providing convenience and comfort.



Image: The Sensi Touch 2 Smart Thermostat with its sleek black beveled edge and color touchscreen display.

2. Key Features

- **Remote Control:** Manage your home comfort from anywhere using the intuitive Sensi mobile application.
- **Room Sensor Compatibility:** Works with Sensi Room Sensors (sold separately) to balance temperatures across your home, ensuring consistent comfort.
- **Energy Savings:** ENERGY STAR certified, offering features like flexible 7-day scheduling and geofencing to help save approximately 23% on HVAC energy usage.
- **Data Privacy:** Sensi is committed to protecting your personal information and will not sell it to third parties.
- **Easy DIY Installation:** The top-rated Sensi app provides step-by-step, custom-configured instructions for a straightforward setup. A common wire (C-wire) is required for installation.
- **Smart Maintenance:** Monitors HVAC system performance, provides usage reports, equipment alerts, and maintenance reminders (e.g., filter replacement).
- **Smart Home Integration:** Seamlessly integrates with Amazon Alexa, Google Assistant, and Samsung SmartThings for voice control and unified smart home management.

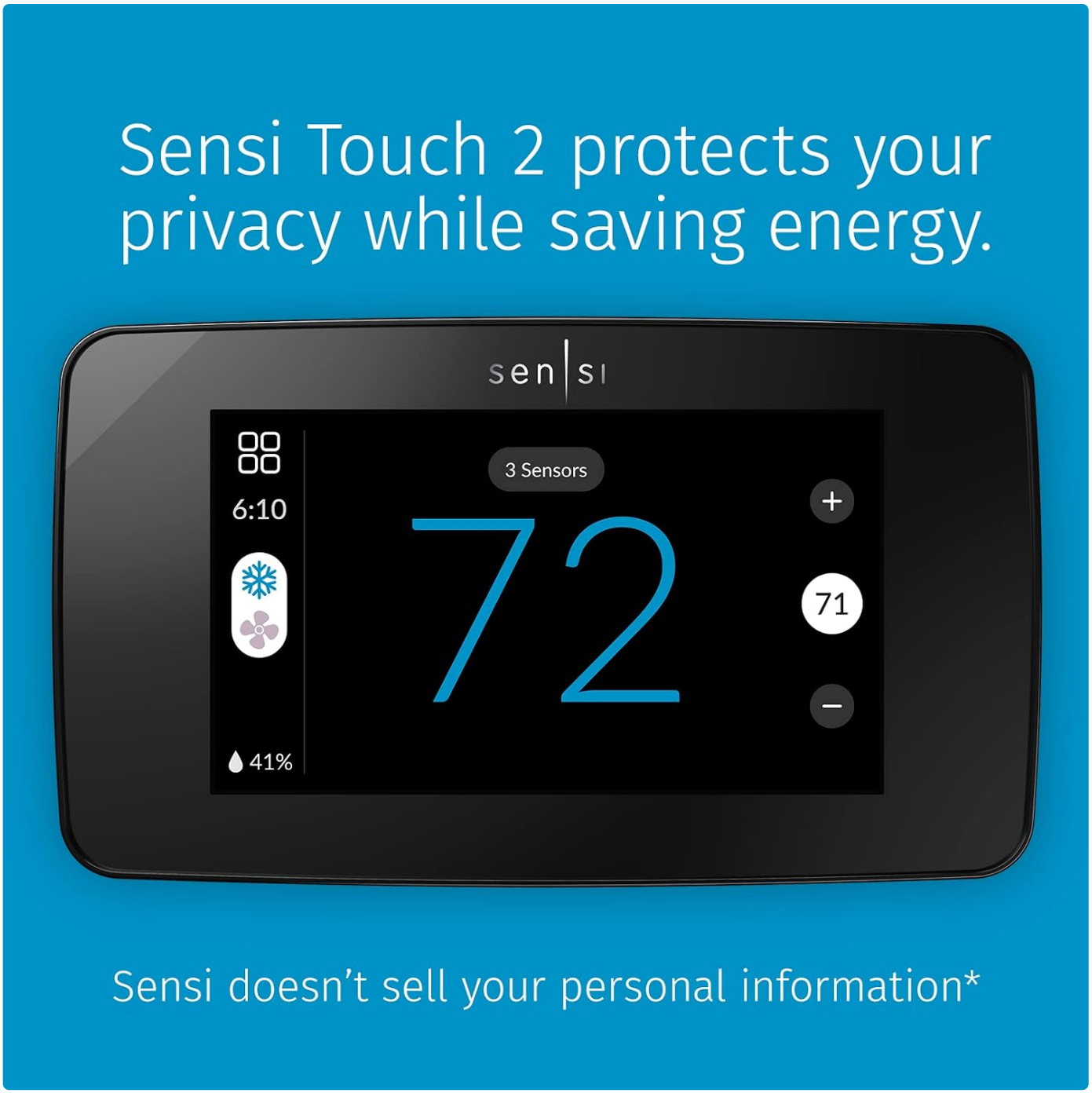


Image: The Sensi Touch 2 thermostat display with text highlighting privacy protection and energy saving features.

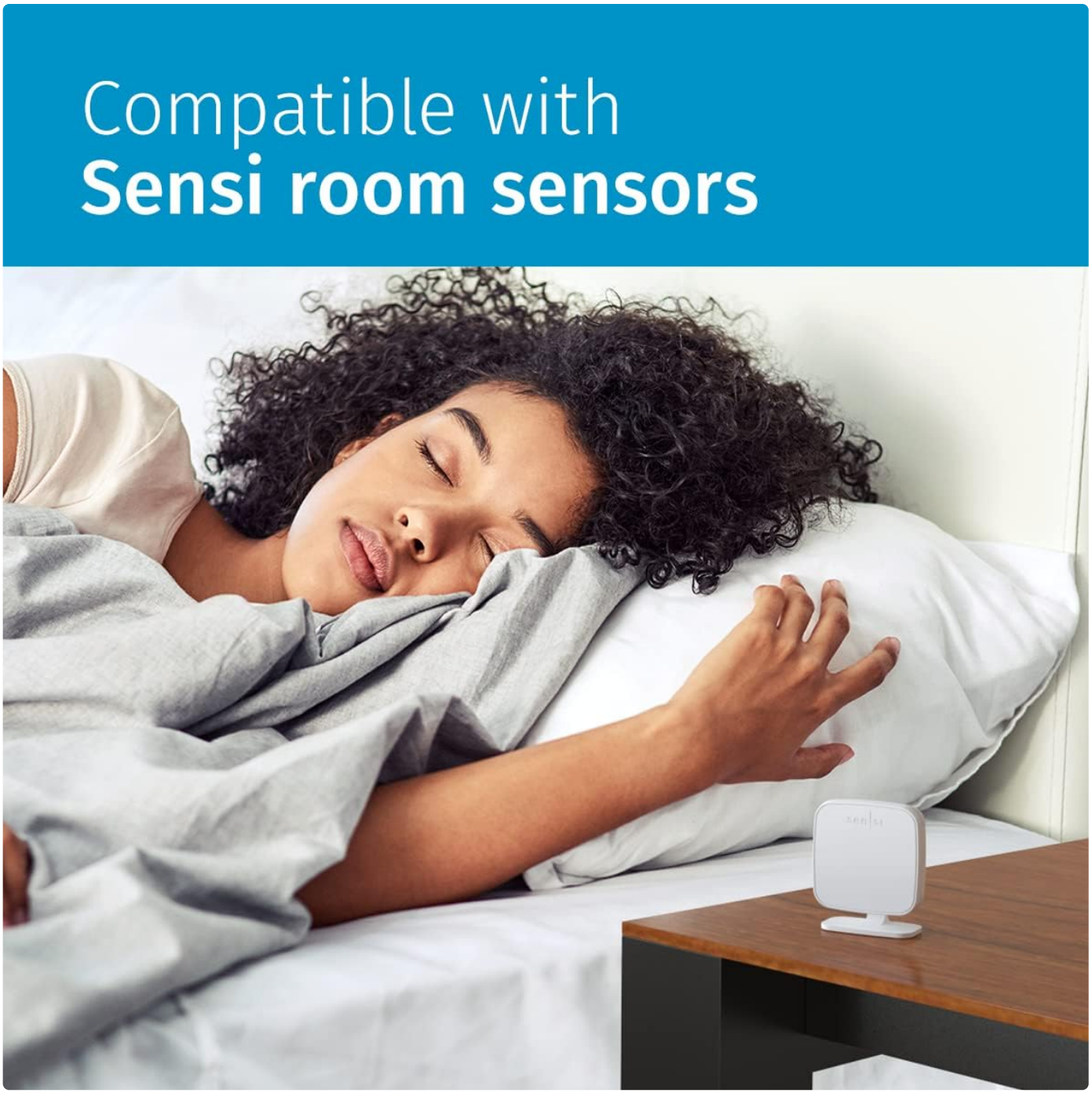


Image: A Sensi room sensor placed on a nightstand next to a bed, illustrating its compatibility with the Sensi Touch 2 thermostat.

3. Setup and Installation

Installing your Sensi Touch 2 Smart Thermostat is designed to be a simple DIY process. The Sensi mobile app provides personalized, step-by-step instructions to guide you through wiring and setup.

3.1 Pre-Installation Checklist

- Ensure your HVAC system is compatible. The Sensi Touch 2 requires a common wire (C-wire) for power.
- Download the Sensi app from the App Store or Google Play.
- Gather necessary tools: screwdriver, wire strippers (if needed).

3.2 Installation Steps

1. **Turn off Power:** Before beginning, turn off power to your HVAC system at the circuit breaker.
2. **Remove Old Thermostat:** Carefully remove your old thermostat from the wall. Take a picture of the existing wiring

for reference.

3. **Wire the Sensi Touch 2:** Follow the detailed, custom instructions provided by the Sensi app to connect the wires to the new thermostat's terminals. The app will walk you through identifying your existing wires and connecting them correctly.
4. **Mount the Thermostat:** Secure the Sensi Touch 2 to the wall using the provided mounting hardware.
5. **Restore Power:** Turn the power back on at the circuit breaker.
6. **Connect to Wi-Fi:** Use the Sensi app to connect your thermostat to your home Wi-Fi network and complete the setup process.



Image: Hands installing the Sensi Touch 2 thermostat on a wall, demonstrating the easy DIY installation process.

Verify Compatibility

Conventional systems include boiler, gas furnace, radiant heat, electric heat and air conditioning. Heat pump systems include heat pump, dual fuel, geothermal

Sensi thermostat is not compatible with line voltage systems. A line voltage thermostat will typically have wires larger than 18 gauge and may not have terminal labels. If you're unsure of your system voltage, you or a contractor should measure voltage using a multimeter. Sensi thermostat is rated for 20-30 VAC.

Sensi thermostats are not compatible with millivolt system. A millivolt (mV) system operates on very low power, less than one volt. Sensi is designed for 20-30 VAC systems.

	Sensi Lite smart thermostat	Sensi smart thermostat	Sensi Touch 2 smart thermostat	Sensi Touch smart thermostat
System Type / Stages	Single (1H/1C), Multi-Stage (1H/2C, 2H/1C), Heat Pump (2H/1C)	Single 1H/1C, Multi-Stage 2H/2C, Heat Pump 4H/2C	Single 1H/1C, Multi-Stage 2H/2C, Heat Pump 4H/2C	Single 1H/1C, Multi-Stage 2H/2C, Heat Pump 4H/2C
Terminals*	R, O/B, Y, G, W/E, C	RC, RH, C, W/E, W2/*, Y, Y2/*, O/B/2, G, L	RC, RH, C, Y, Y2/*, W/E, W2/*, G, O/B, ACC+, ACCP	RC, RH, C, W/E, W2/*, Y, Y2/*, O/B/6, G, L
C-Wire	Not required for most systems	Not required for most systems	Required for all systems	Required for all systems

Image: A table detailing compatibility of Sensi thermostats (Lite, Smart, Touch, Touch 2) with various system types, stages, terminals, and C-wire requirements.

System Type	Sensi Lite smart thermostat	Sensi smart thermostat	Sensi Touch smart thermostat	Sensi Touch 2 smart thermostat
				
Conventional Heating and Cooling - Gas/Oil/Propane Furnace - Air Conditioner - Electric Furnace - Boiler/Radiant	Yes[1]	Yes[2]	Yes[3]	Yes[3]
Heat Only - Gas/Oil/Propane Furnace - Electric Furnace - Boiler/Radiant	Yes[3]	Yes[3]	Yes[3]	Yes[3]
Cool Only - Air Conditioner	Yes[3]	Yes[3]	Yes[3]	Yes[3]
Heat Pump/Geothermal	Yes[1,3]	Yes[3]	Yes[3]	Yes[3]
Whole Home Humidifiers / Dehumidifiers	No	Yes	Yes	Yes
Communicating/Proprietary System	No	No	No	No
Line Voltage	No	No	No	No
Millivolt	No	No	No	No
RV/Camper 12VDC Applications	No	No	No	No

[1] *Compatible with multi-stage systems up to 1H/2C or 2H/1C*
[2] *Common wire required for HomeKit compatibility*
[3] *Common wire required*

Image: A detailed compatibility chart for Sensi thermostats across different HVAC system types, including conventional, heat only, cool only, and heat pump/geothermal systems.

3.3 Installation Video

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Video: An official installation guide for Sensi Room Sensors, demonstrating the setup process for integrating sensors with your Sensi thermostat.

For more detailed installation instructions, please refer to the officialInstallation Manual (PDF).

4. Operating Instructions

The Sensi Touch 2 Smart Thermostat offers multiple ways to control your home's comfort, including the intuitive touchscreen display, the Sensi mobile app, and voice commands.

4.1 Touchscreen Control

- **Adjust Temperature:** Tap the '+' or '-' icons on the display to raise or lower the set temperature.
- **Change Mode:** Tap the mode icon (e.g., snowflake for cool, flame for heat) to cycle through available modes (Heat, Cool, Auto, Off).
- **Fan Control:** Tap the fan icon to select fan modes (Auto, On).
- **Access Menu:** Tap the menu icon to access advanced settings, schedules, and system information.

4.2 Mobile App Control

The Sensi app provides full control over your thermostat from anywhere with an internet connection.

- **Remote Adjustments:** Change temperature, mode, and fan settings remotely.
- **Scheduling:** Create and manage flexible 7-day schedules to automate your home's comfort based on your routine.
- **Geofencing:** Utilize location-based temperature control to automatically adjust settings when you leave or return home.
- **Usage Reports:** View detailed reports on your HVAC system's energy usage.

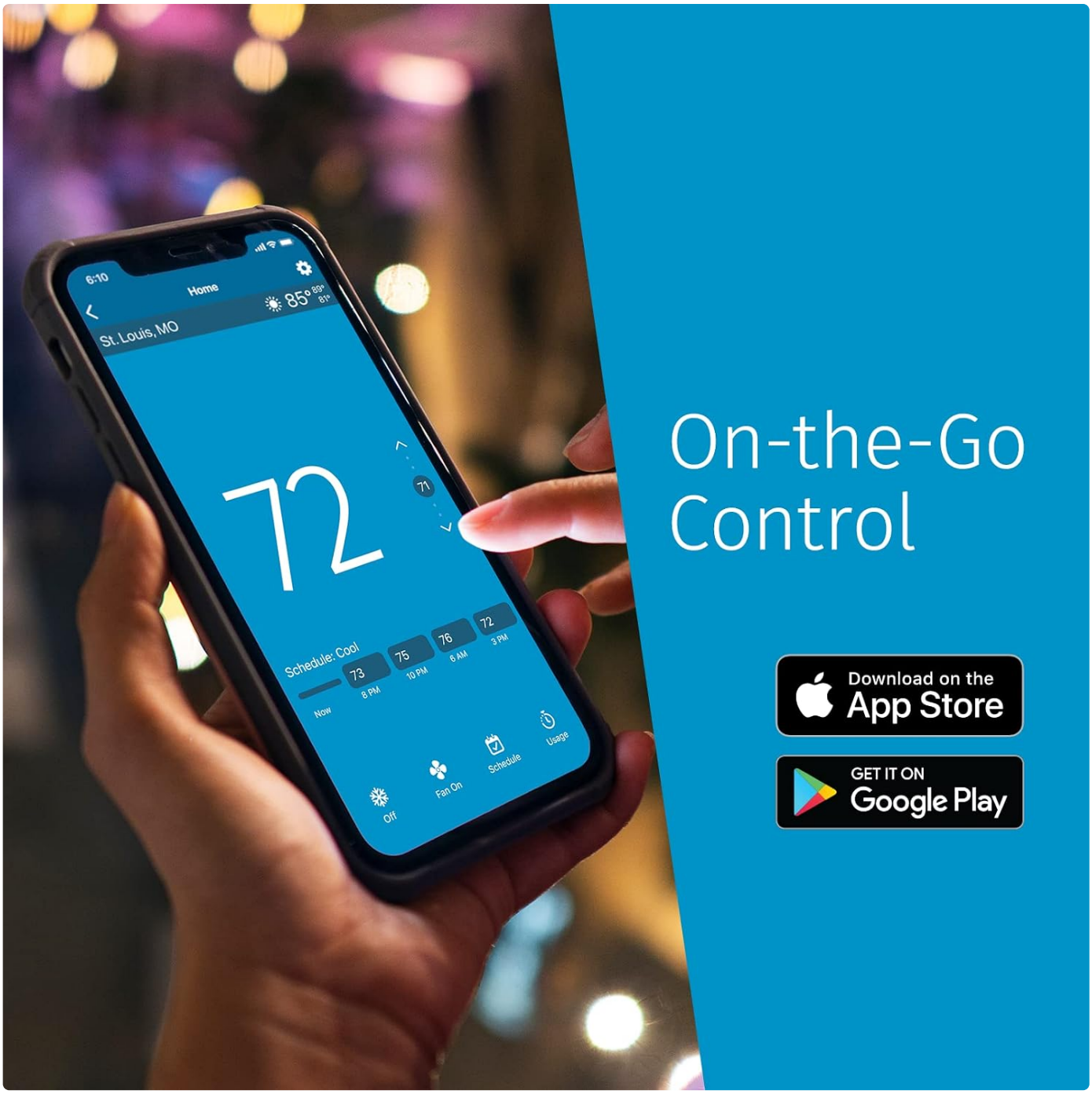


Image: A hand holding a smartphone displaying the Sensi app interface, demonstrating remote control capabilities.

4.3 Voice Control

Integrate your Sensi Touch 2 with Amazon Alexa or Google Assistant for convenient voice control.

- **Amazon Alexa:** Say, "Alexa, set the thermostat to 72 degrees." or "Alexa, what's the temperature in here?"
- **Google Assistant:** Say, "Hey Google, turn up the heat." or "Hey Google, set the thermostat to cool."

4.4 Product Overview Video

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Video: An official product overview video showcasing the features and benefits of the Sensi Touch 2 Smart Thermostat.

5. Maintenance

The Sensi Touch 2 Smart Thermostat is designed for minimal maintenance. Its smart features help you keep your HVAC

system running efficiently.

- **Smart Maintenance Alerts:** The thermostat can monitor your HVAC system's performance and send alerts regarding potential issues or maintenance needs.
- **Filter Reminders:** Set reminders for air filter replacement directly through the Sensi app to ensure optimal system performance and air quality.
- **Cleaning:** Gently wipe the touchscreen and exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents.

6. Troubleshooting

If you encounter issues with your Sensi Touch 2 Smart Thermostat, try the following troubleshooting steps:

- **No Power to Thermostat:** Ensure the C-wire is properly connected and that power to your HVAC system is on at the circuit breaker.
- **Wi-Fi Connectivity Issues:**
  - Verify your home Wi-Fi network is active and within range.
  - Restart your Wi-Fi router.
  - Attempt to reconnect the thermostat to Wi-Fi through the Sensi app's settings.
- **Inaccurate Temperature Readings:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its sensor.
- **System Not Responding:** Check all wiring connections at the thermostat and HVAC system. Ensure the correct system type is selected in the thermostat's advanced settings.
- **App Not Syncing:** Ensure your mobile device has an active internet connection and the Sensi app is updated to the latest version.

For more complex issues, refer to the comprehensive troubleshooting section in the Sensi app or the official User Guide.

7. Specifications

Feature	Specification
Brand	Emerson
Model Name	Sensi Touch 2
Model Number	ST76
Color	Black Beveled Edge
Display Type	LCD Touchscreen
Connectivity Technology	Wi-Fi
Power Source	Common wire (C-wire) required
Voltage	24.0 VAC
Item Weight	9.9 ounces
Product Dimensions	5.6 x 3.25 x 0.77 inches
Control Method	Touch, Voice (Alexa, Google Assistant), App

Feature	Specification
Certification	ENERGY STAR Certified

8. Warranty and Support

The Sensi Touch 2 Smart Thermostat comes with a**3-year limited warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For detailed information on product usage, advanced settings, and troubleshooting, please refer to the official User Guide (PDF) and Installation Manual (PDF).

If you require further assistance or have questions not covered in this manual, please contact Emerson customer support. Contact information can typically be found on the Emerson Sensi website or within the Sensi mobile application.

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