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YoLink YS4004

YoLink Thermostat 2: Smart Dual-Stage Thermostat Instruction Manual

Model: YS4004 | Brand: YoLink

1. PRODUCT OVERVIEW

The YoLink Thermostat 2 is an advanced smart thermostat designed for precise temperature control in both residential and commercial environments. Featuring dual-stage heating and cooling, heat pump support, and integration with external sensors, it ensures optimal comfort and energy efficiency. Powered by YoLink's LoRa technology, it offers an industry-leading wireless range for reliable connectivity across large spaces. Remote management is available via the YoLink app, with voice control options through Alexa and Google Home.

2. KEY FEATURES

- Precise Dual-Stage Comfort:** Offers finer temperature control with dual-stage heating and cooling for ideal comfort.
- Heat Pump & Sensor Integration:** Seamlessly works with heat pumps and supports up to two YS8007-UC sensors for real-time climate monitoring.
- Industry-Leading LoRa Range:** Utilizes YoLink's LoRa technology for the longest wireless range (up to 1/4 mile) suitable for large properties.
- Smart Remote Access:** Control temperature, modes, and schedules from anywhere using the intuitive YoLink app.
- Energy-Saving ECO Mode:** Automatically optimizes settings to reduce power consumption while maintaining comfort.
- Robust YoLink Ecosystem:** Integrates with 80+ YoLink devices (Hub required, sold separately).
- Voice Control & Easy Setup:** Compatible with Alexa, Google Home, IFTTT, and Home Assistant; simple DIY installation for 24VAC systems with C-wire.

3. PACKAGE CONTENTS

- YoLink Thermostat 2 (Model YS4004)
- Mounting Hardware
- Temperature Sensor (internal)
- Humidity Sensor (internal)

Note: A YoLink Hub is required for operation and is sold separately.

4. SETUP AND INSTALLATION

4.1 Pre-installation Requirements

- A 24VAC HVAC system with a C-wire is required.
- A YoLink Hub (sold separately) is necessary for the thermostat to function and connect to the YoLink app.
- Download the YoLink app from your device's app store.

4.2 Physical Installation

The YoLink Thermostat 2 is designed for simple DIY installation. Follow the wiring diagrams provided in the quick start guide for your specific HVAC system type (e.g., conventional, heat pump). Ensure power is off before beginning installation.



Superior Durability and Performance

YoLink Thermostat 2 is engineered with enhanced molding, ensuring exceptional durability and reliability for daily use. This robust design reduces the risk of detachment, providing long-lasting performance that stands up to any environment, whether in a residential home or a commercial setting.

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Image: Rear view of the YoLink Thermostat 2 showing the wiring terminals and mounting plate. This illustrates the simple installation process for 24VAC systems.

4.3 App Setup and Device Pairing

Once physically installed, open the YoLink app. Use the app's pairing function (often a QR code scan) to add your Thermostat 2 to your YoLink system. You can assign it to a specific room and configure initial settings.



Who We Are

YoLink, a brand of [YoSmart](#), was founded in 2014 in Irvine, California, by a team of local engineers. We were the first to apply [LoRa](#) technology to smart homes, bringing ultra-long-range and low-power performance into everyday living.

With over [300,000 gateways](#) and [2M+ devices](#) online, YoLink delivers exceptional battery life through our patented [Radio Wake-Up](#) technology, while [D2D \(Device-to-Device\) Control](#) ensures essential leak-to-shutoff actions work instantly—even without internet or power.



[300,000+](#)

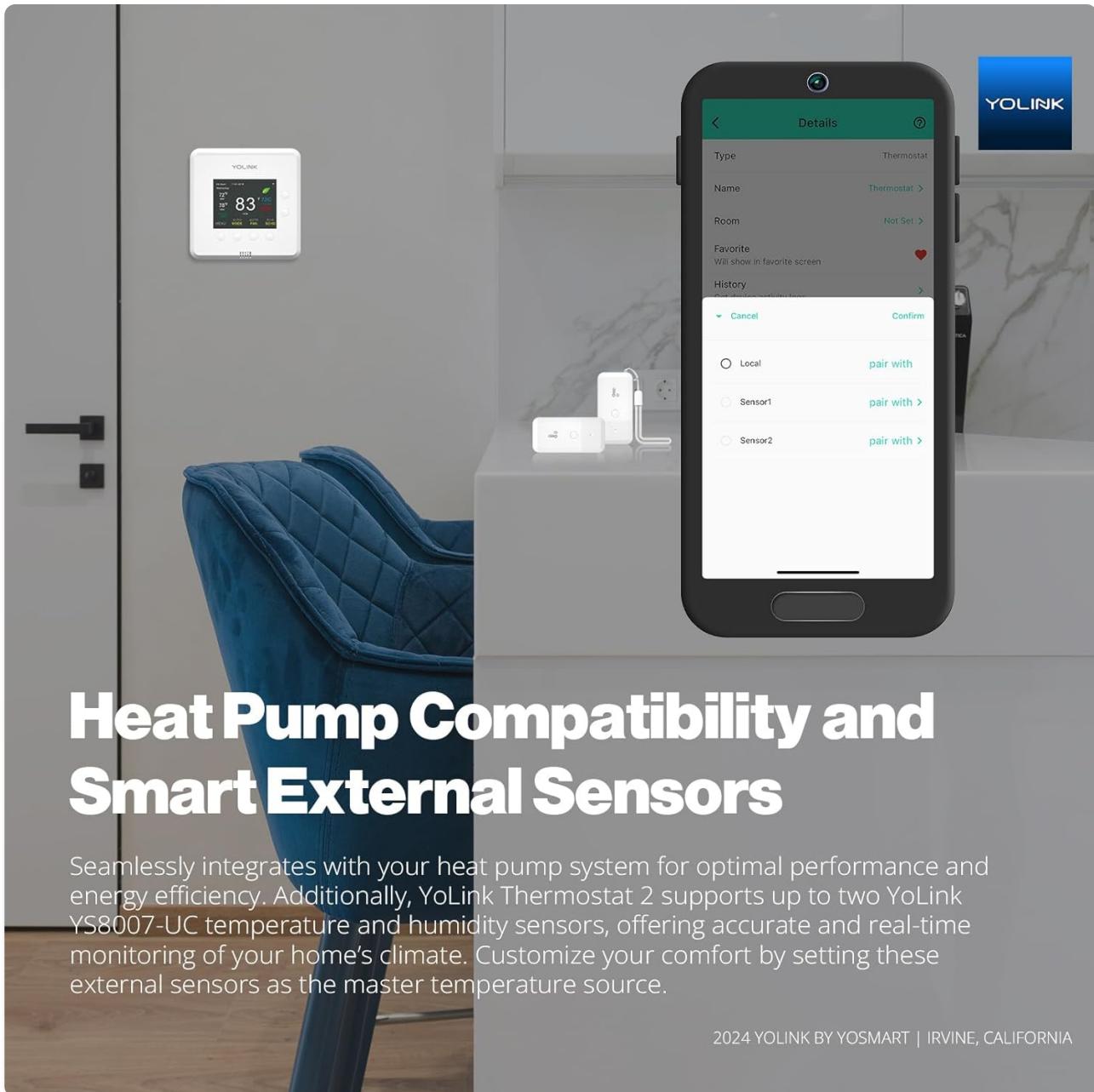


[2,000,000+](#)

Image: A smartphone screen displaying the YoLink app's device pairing interface, showing options to pair with local or external sensors.

4.4 Integrating External Sensors

The Thermostat 2 supports up to two external YS8007-UC sensors. These can be paired via the app to provide temperature and humidity readings from different areas, allowing for more accurate climate control by setting an external sensor as the master temperature source.



Heat Pump Compatibility and Smart External Sensors

Seamlessly integrates with your heat pump system for optimal performance and energy efficiency. Additionally, YoLink Thermostat 2 supports up to two YoLink YS8007-UC temperature and humidity sensors, offering accurate and real-time monitoring of your home's climate. Customize your comfort by setting these external sensors as the master temperature source.

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Image: The YoLink Thermostat 2 mounted on a wall, with two external temperature and humidity sensors shown nearby, illustrating their integration for enhanced climate monitoring.

5. OPERATION

5.1 Basic Controls and Modes

Adjust temperature, select operating modes (heating, cooling, auto, off), and control the fan directly from the thermostat's LCD display or remotely via the YoLink app.

Customizable Heating and Commercial Ready



Customize auxiliary heating to match your personal comfort needs. Perfect for both residential and commercial applications, YoLink Thermostat 2 is equipped with Demand Response (DR) functionality, helping businesses manage energy usage efficiently during peak periods. Whether at home or in the office, enjoy tailored heating solutions that ensure warmth when you need it most.



Image: The YoLink Thermostat 2 on a wall, with a smartphone displaying the app interface for adjusting temperature and modes, including a 'DR Event' notification.

5.2 Smart Remote Access

The YoLink app allows you to monitor and control your thermostat from any location. Adjust settings, check current temperatures, and manage schedules to ensure your home or business climate is always comfortable.

Remote Access and Control



Monitor and control your thermostat from anywhere using the intuitive YoLink app. Check and adjust your home's temperature, mode, and schedule at any time, ensuring your home is always comfortable upon your arrival. This feature provides the ultimate convenience and peace of mind, knowing you can manage your home's climate from anywhere in the world.

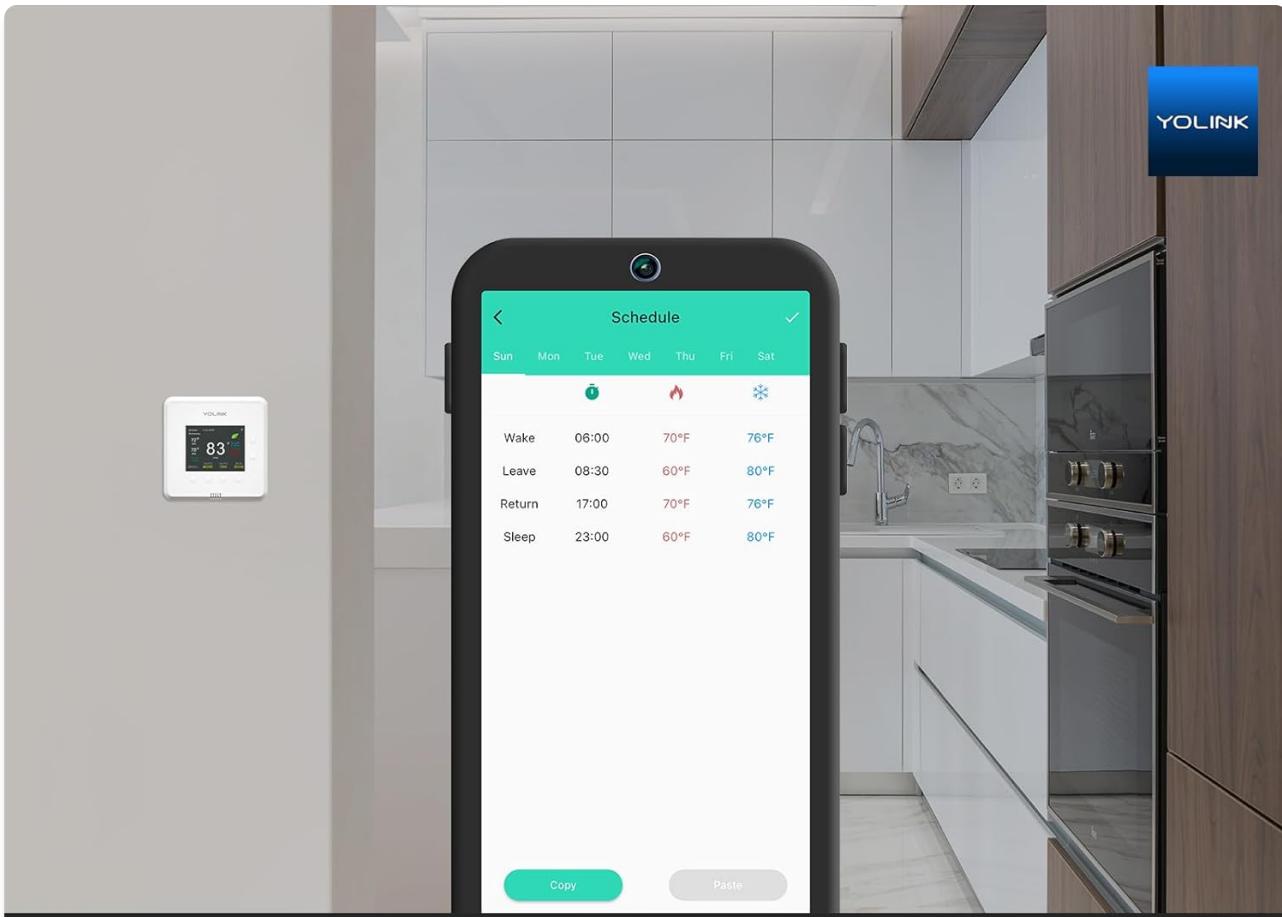


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Image: A hand interacting with the YoLink app on a smartphone, showing the interface for remote temperature and mode control of the thermostat.

5.3 Smart Scheduling and Automation

Set daily schedules or create custom automations to automatically adjust heating and cooling based on time of day or your weekly routine. This feature optimizes energy usage and fits your lifestyle.



Smart Scheduling and Automation

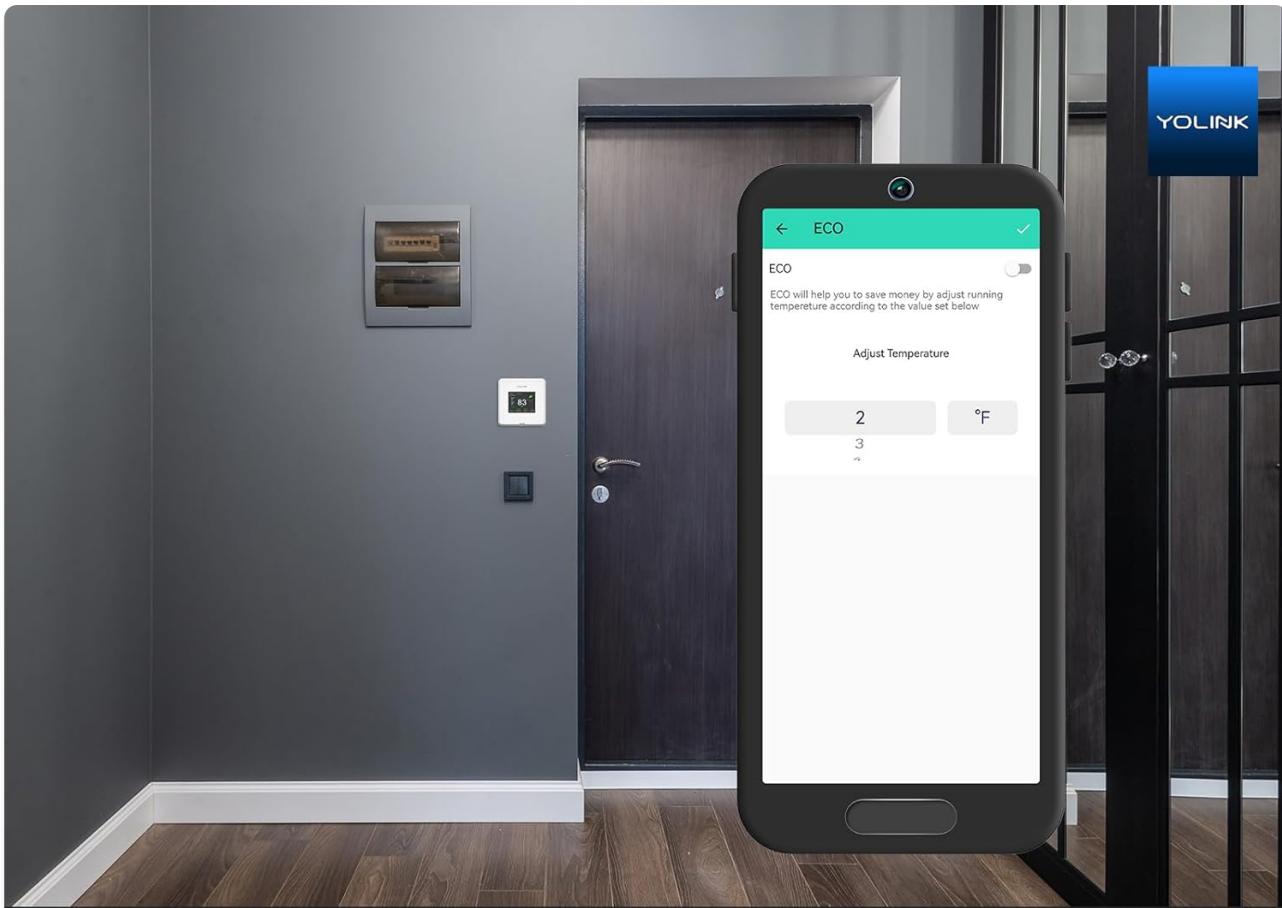
Set up daily schedules or create custom automations. Automatically adjust heating and cooling based on the time of day or your weekly routine, ensuring optimal energy use and convenience. This smart scheduling feature allows you to tailor your thermostat's operation to fit your lifestyle perfectly.

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Image: A smartphone screen displaying the YoLink app's scheduling interface, allowing users to set daily heating and cooling routines.

5.4 Energy-Saving ECO Mode

Activate ECO Mode to automatically optimize settings for energy conservation, helping to reduce power bills without compromising comfort. This mode intelligently modifies temperature settings to save energy.



Energy-Saving ECO Mode

Automatically adjusts to save energy while maintaining your ideal home temperature. ECO mode intelligently modifies settings to conserve energy, reducing your power bills without compromising comfort. This energy-saving feature ensures you can enjoy a comfortable home while being mindful of your energy consumption.

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Image: A smartphone screen displaying the YoLink app's ECO Mode settings, allowing users to adjust temperature differentials for energy saving.

5.5 Voice Control and Third-Party Integration

The YoLink Thermostat 2 integrates with popular voice assistants like Amazon Alexa and Google Home for hands-free operation. It also supports IFTTT and Home Assistant for advanced custom automations and enhanced control within your smart home ecosystem.

6. MAINTENANCE

6.1 General Care

Clean the thermostat's display and exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Ensure the device is free from dust and debris to maintain optimal performance.

6.2 Durability

The YoLink Thermostat 2 is engineered with enhanced molding for exceptional durability and long-lasting

performance in various environments, from residential homes to commercial settings.



Superior Durability and Performance

YoLink Thermostat 2 is engineered with enhanced molding, ensuring exceptional durability and reliability for daily use. This robust design reduces the risk of detachment, providing long-lasting performance that stands up to any environment, whether in a residential home or a commercial setting.

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Image: Rear view of the YoLink Thermostat 2 showing the wiring terminals and mounting plate. This illustrates the simple installation process for 24VAC systems.

7. TROUBLESHOOTING

7.1 Connectivity Issues

If the thermostat experiences connectivity problems (e.g.,