

Trane TCONT824

Trane XL824 Nexia Control Smart Thermostat User Manual

Model: TCONT824

Brand: Trane

1. INTRODUCTION AND OVERVIEW

The Trane XL824 Thermostat is a smart climate control device designed to integrate with your home's heating, ventilation, and air conditioning (HVAC) system. Equipped with a built-in Nexia Home Intelligence Bridge, it allows for remote control and scheduling of your thermostat and compatible Z-Wave products. This manual provides essential information for the setup, operation, and maintenance of your Trane XL824 thermostat.

Important Note: This control is specifically designed for Trane & American Standard 3-Wire Communicating Systems. It is not compatible with traditional wired heating and cooling systems using R, W, Y, G, C, etc., type of wiring.



Figure 1: Trane XL824 Nexia Control Product Box. The box displays the Trane logo, model number TCONT824AS52DA, serial number, and indicates it is a 4.3" Color Wi-Fi Control with Z-Wave Bridge, quantity 1, assembled in China, with software version 1.0.0.



Video 1: Trane Thermostat Interface Overview. This video provides a general overview of a Trane thermostat, demonstrating its touchscreen interface and basic functionalities, which can be helpful for understanding the XL824's operation.

2. KEY FEATURES

- **4.3" Diagonal Color Touchscreen:** High-definition display for intuitive control.
- **Built-in Nexia Home Intelligence Bridge:** Enables remote control and integration with over 200 additional Z-Wave

products.

- **Wi-Fi or Ethernet Connectivity:** Flexible options for network connection.
- **Advanced Scheduling:** Create up to six daily heating and cooling schedules to optimize comfort and energy usage.
- **System Compatibility:** Designed for Conventional 24v Heat/Cool and Dual Fuel systems (Trane & American Standard 3-Wire Communicating Systems only).
- **Multi-Stage Control:** Supports up to 5 Heat Stages and 2 Cool Stages for precise climate management.
- **Remote Access:** Control and monitor your thermostat from any internet-enabled smartphone, tablet, or computer.

3. SETUP AND INSTALLATION

Installation of the Trane XL824 thermostat requires specific wiring knowledge for Trane & American Standard 3-Wire Communicating Systems. It is crucial to ensure compatibility with your existing HVAC system before proceeding. If you are unsure about the wiring or compatibility, it is recommended to consult a qualified HVAC technician.

3.1 Wiring Requirements

- This thermostat requires a 3-wire communicating system.
- It is not compatible with traditional R, W, Y, G, C wiring configurations.
- Ensure power to your HVAC system is turned off at the circuit breaker before beginning installation.

3.2 Network Connection

The Trane XL824 supports both Wi-Fi and Ethernet connectivity for remote access. A high-speed router is required for internet connection. Follow the on-screen prompts after initial power-up to configure your network settings.

4. OPERATING INSTRUCTIONS

The Trane XL824 thermostat features a user-friendly 4.3" color touchscreen for easy operation. You can adjust settings directly on the device or remotely via the Nexia Home Intelligence app.


4.1 Basic Controls

- **Temperature Adjustment:** Use the up and down arrows on the touchscreen to set your desired temperature.
- **System Mode:** Select between Heat, Cool, Auto, or Off modes.
- **Fan Mode:** Choose between On, Auto, or Circulate fan settings.
- **Scheduling:** Access the 'Schedules & Presets' menu to create and manage personalized heating and cooling schedules for different times of the day and week.

4.2 Remote Control via Nexia App

Once connected to your home network, download the Nexia Home Intelligence app on your smartphone or tablet. This app allows you to:

- Adjust temperature settings from anywhere.
- View current indoor and outdoor temperatures and humidity levels.
- Modify or create new schedules.
- Control other connected Z-Wave devices.

 Video 2: Smart Thermostat Features Overview. This video highlights the smart features of a Trane thermostat, including remote control capabilities and integration with smart home systems, enhancing user convenience.

 Video 3: Remote AC Control Demonstration. This video demonstrates the convenience of controlling the AC system remotely using a

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Trane XL824 thermostat and your HVAC system. The thermostat may provide reminders for certain maintenance tasks.

5.1 Air Filter Service

The thermostat can alert you when it's time to check or replace your air filter. A clean air filter is essential for efficient system operation and good indoor air quality. Refer to your HVAC system's manual for specific air filter replacement instructions.

5.2 Cleaning the Touchscreen

To clean the touchscreen, access the 'Clean Screen' option in the menu. This will temporarily disable touch input, allowing you to wipe the screen with a soft, damp cloth without accidentally changing settings.

6. TROUBLESHOOTING

If you encounter issues with your Trane XL824 thermostat, try the following basic troubleshooting steps:

- **No Power/Blank Screen:** Check the circuit breaker for your HVAC system. Ensure the thermostat is properly seated on its base.
- **Connectivity Issues:** Verify your home Wi-Fi or Ethernet connection is active. Restart your router and the thermostat. Check the Nexia app for status updates.
- **Incorrect Temperature Readings:** Ensure the thermostat's sensors are not obstructed and that it is not exposed to direct sunlight or drafts.
- **System Not Responding:** Confirm the system mode (Heat/Cool/Auto) and fan mode are set correctly. If issues persist, a system reset may be required (refer to the full user manual for detailed reset procedures).

For complex issues, contact Trane customer support or a certified HVAC technician.

7. SPECIFICATIONS

Feature	Detail
Brand	Trane
Model Number	TCONT824
Controller Type	Nexia
Display Type	LCD, 4.3 Inches Color Touchscreen
Connectivity	Wi-Fi, Ethernet, Z-Wave
Temperature Control Type	Programmable
Heat/Cool Stages	Up to 5 Heat Stages / 2 Cool Stages
Voltage	24 Volts
Power Source	Battery Powered (Note: C-wire usually provides continuous power for smart features)
Product Dimensions	6 x 3.5 x 2 inches
Item Weight	1 Pound

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your Trane XL824 Nexia Control or visit the official Trane website. For technical support, product inquiries, or service, please contact Trane customer service.

Online Resources:

- [Trane Official Website](#)
- [Nexia Home Intelligence Website](#)