Trane TCONT850_v4

Trane ComfortLink II XL850 Communicating System Thermostat

INSTRUCTION MANUAL

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Trane ComfortLink II XL850 Communicating System Thermostat. The XL850 is designed for use with American Standard and Trane AccuLink communicating HVAC systems only. It features a touchscreen interface and includes an embedded Z-Wave Static Controller for remote control capabilities within a Z-Wave network.

Please read these instructions thoroughly before proceeding with installation or operation to ensure proper function and to avoid potential damage or injury. This thermostat is a sophisticated component designed for professional installation.

Important Safety Information

- **Electrical Hazard:** Disconnect power to the HVAC system at the main service panel before installing or servicing this thermostat. Failure to do so may result in electrical shock or equipment damage.
- **Professional Installation Recommended:** Installation and wiring should be performed by a qualified HVAC technician. Incorrect wiring can damage the thermostat and HVAC system.
- **System Compatibility:** This thermostat is designed exclusively for communicating HVAC systems. It is not compatible with non-communicating systems. Verify your system type before installation.
- **Disposal:** Dispose of the product and any batteries according to local regulations.

Package Contents

Verify that all components are present before beginning installation:

- Trane ComfortLink II XL850 Thermostat
- Mounting Plate
- Mounting Hardware (screws, anchors)
- USB Cable (for potential future updates or accessories)
- Installation Guide (this document)

Image: The Trane ComfortLink II XL850 thermostat unit, its mounting plate, and included accessories such as a USB cable, as typically found in the product packaging.

Installation

Pre-Installation Steps

1. **Power Off:** Turn off power to your heating and cooling system at the circuit breaker or fuse box.
2. **Remove Old Thermostat:** Carefully remove your existing thermostat from the wall. Note the wiring connections if applicable, though communicating systems use specific wiring.
3. **Location:** Choose a central location on an interior wall, away from direct sunlight, drafts, and heat sources.

Mounting the Thermostat

1. Separate the mounting plate from the thermostat unit.
2. Position the mounting plate on the wall and mark the screw holes.
3. Drill pilot holes if necessary and secure the mounting plate to the wall using the provided screws. Ensure it is level.

Wiring (Communicating Systems Only)

The XL850 is designed for Trane/American Standard communicating systems. These systems typically use fewer wires than conventional systems, often requiring only four wires for communication and power. Refer to your HVAC system's specific wiring diagram for precise connections.

- Connect the low-voltage wires from your HVAC system to the corresponding terminals on the thermostat's mounting plate. Ensure secure connections.
- Double-check all wiring connections for accuracy before proceeding.

Image: The rear of the Trane ComfortLink II XL850 thermostat, displaying the terminal block for wiring connections and internal circuitry. The mounting plate is shown detached.

Attaching the Thermostat Unit

Once wiring is complete and verified, carefully align the thermostat unit with the mounting plate and snap it into place. Ensure it is securely fastened.

Power On

Restore power to your HVAC system at the circuit breaker. The thermostat should power on and begin its initial setup sequence.

Setup and Configuration

Upon initial power-up, the XL850 will guide you through a setup wizard. Follow the on-screen prompts to configure basic settings.

Initial Setup Wizard

- **Language Selection:** Choose your preferred language.
- **Date and Time:** Set the current date and time.
- **System Type:** The thermostat will typically detect your communicating HVAC system automatically. Verify the detected system type (e.g., Heat Pump, Furnace with AC).
- **Location Information:** Enter your location for accurate weather data (if connected to Wi-Fi).

Z-Wave Network Integration

The XL850 includes a Z-Wave Static Controller, allowing it to be integrated into a Z-Wave smart home network for remote control via platforms like Nexia Home Intelligence.

1. Access the Z-Wave setup menu on the thermostat (refer to the on-screen menu for exact navigation).
2. Initiate the 'Add Device' or 'Include' process on your Z-Wave controller.
3. Follow the thermostat's prompts to join the Z-Wave network.
4. Once successfully paired, the thermostat can be controlled remotely through your Z-Wave hub's interface.

Operating Instructions

The XL850 features an intuitive touchscreen interface for easy control of your home's climate.
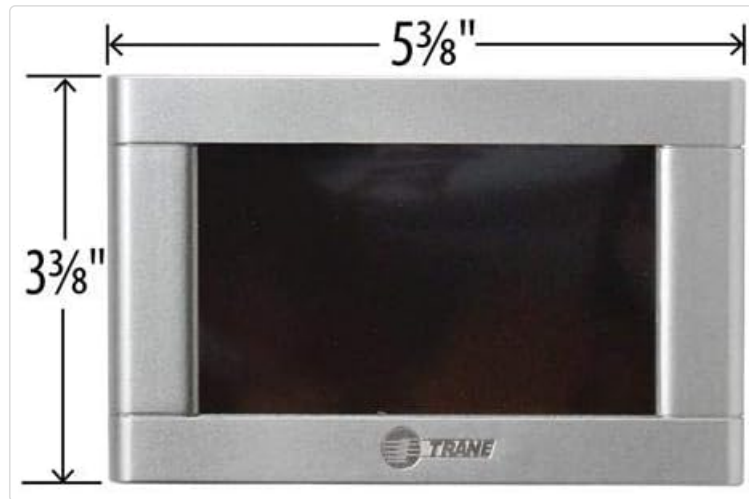

Image: The front view of the Trane ComfortLink II XL850 thermostat, illustrating its physical dimensions: approximately 5 3/8 inches wide and 3 3/8 inches high.

Main Screen Overview

The main screen typically displays the current temperature, setpoint, system mode, and fan status. Touch icons to access different functions.

Setting Temperature

Touch the temperature display or the up/down arrows on the screen to adjust the desired temperature setpoint.

System Mode Selection

Tap the 'Mode' icon to cycle through available operating modes:

- **Heat:** The system will only heat to maintain the setpoint.
- **Cool:** The system will only cool to maintain the setpoint.
- **Auto:** The system automatically switches between heating and cooling to maintain the setpoint.
- **Off:** The heating and cooling system is turned off.

Fan Control

Tap the 'Fan' icon to select fan operation:

- **Auto:** The fan runs only when the heating or cooling system is active.
- **On:** The fan runs continuously, regardless of heating or cooling calls.

Scheduling

Access the 'Schedule' menu to program custom temperature settings for different times of the day and days of the week. This allows for energy savings and comfort optimization.

Advanced Settings

The 'Menu' or 'Settings' icon provides access to advanced configurations, including Wi-Fi setup, display preferences, service reminders, and system diagnostics.

Maintenance

The Trane ComfortLink II XL850 thermostat requires minimal maintenance.

- **Cleaning the Screen:** Use a soft, damp cloth to clean the touchscreen. Avoid abrasive cleaners or sprays directly on the screen.
- **Air Filter Reminders:** The thermostat can be configured to remind you when it's time to change your HVAC system's air filter. Follow your system manufacturer's recommendations for filter replacement.
- **Software Updates:** If connected to Wi-Fi, the thermostat may receive automatic software updates to improve performance and add features.

Troubleshooting

If you encounter issues with your XL850 thermostat, try the following steps:

Problem	Possible Cause	Solution
Thermostat has no power/blank screen.	No power to HVAC system; incorrect wiring.	Check circuit breaker for HVAC system. Verify wiring connections are secure and correct for a communicating system.
HVAC system not responding to thermostat.	Incorrect system configuration; communication error.	Ensure system type is correctly configured in settings. Check for any error messages on the screen. Power cycle the HVAC system and thermostat.
Temperature reading appears inaccurate.	Thermostat location issues; sensor calibration.	Ensure thermostat is not in direct sunlight or near heat/cold sources. Consult a professional for sensor calibration if needed.
Cannot connect to Z-Wave network.	Z-Wave controller not in inclusion mode; interference.	Ensure your Z-Wave controller is actively searching for new devices. Move the thermostat closer to the controller if possible. Refer to your Z-Wave controller's manual.

If problems persist, contact a qualified HVAC service technician.

Specifications

- **Model Number:** TCONT850_v4 (also known as CNT04838 / CNT-4838 / ACONT900)
- **Brand:** Trane
- **Control Type:** Touchscreen
- **Backlight:** Yes
- **Connectivity:** Communicating System, Z-Wave
- **Weight:** Approximately 1 Pound
- **Dimensions:** Approximately 5 3/8 inches (W) x 3 3/8 inches (H)

Warranty and Support

This Trane ComfortLink II XL850 Thermostat is an American Standard / Trane OEM component and typically comes with a factory warranty. Specific warranty terms and duration are provided by the manufacturer. Please retain your proof of purchase for warranty claims.

Due to the specialized nature of this communicating thermostat, it is generally considered a non-returnable item once installed. For technical support, warranty inquiries, or professional service, please contact your authorized Trane or American Standard dealer or a qualified HVAC professional.

Image: An 'OEM Component' stamp, signifying that the product is an Original Equipment Manufacturer part, ensuring compatibility and quality.