Venstar T8900

Venstar ColorTouch T8900 Thermostat User Manual

Model: T8900

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Venstar ColorTouch T8900 Thermostat. The T8900 is a Wi-Fi enabled, touchscreen thermostat designed for precise temperature and humidity control in residential and commercial environments. It features advanced scheduling capabilities, customizable display options, and robust security features.
Key features include:

- Up to 4 Heat and 2 Cool Stages for gas, electric, or heat pump systems, with dual fuel capability.
- Adjustable timers and dead-bands, along with set-point limiting for energy management.
- Built-in Wi-Fi connectivity, supported by free mobile applications for remote control.
- Drop-down current weather and weather forecast display for convenience.



Image: The Venstar ColorTouch T8900 Thermostat shown alongside its product packaging. The thermostat is white with a large color touchscreen display. The packaging highlights "Commercial Model T8900" and "High Resolution Touch Screen Digital Thermostat with Humidity Control."

Setup and Installation

Before beginning installation, ensure the power to your HVAC system is turned off at the circuit breaker. This thermostat operates on 24 Volts AC. Professional installation is recommended.

Mounting the Thermostat

1. Carefully remove your old thermostat from the wall.
2. Identify and label all wires connected to your old thermostat's terminals.
3. Mount the new Venstar T8900 backplate to the wall using the provided screws. Ensure it is level.
4. Connect the labeled wires to the corresponding terminals on the T8900 backplate. Refer to the wiring diagram provided in the full installation guide for specific configurations (e.g., gas, electric, heat pump).

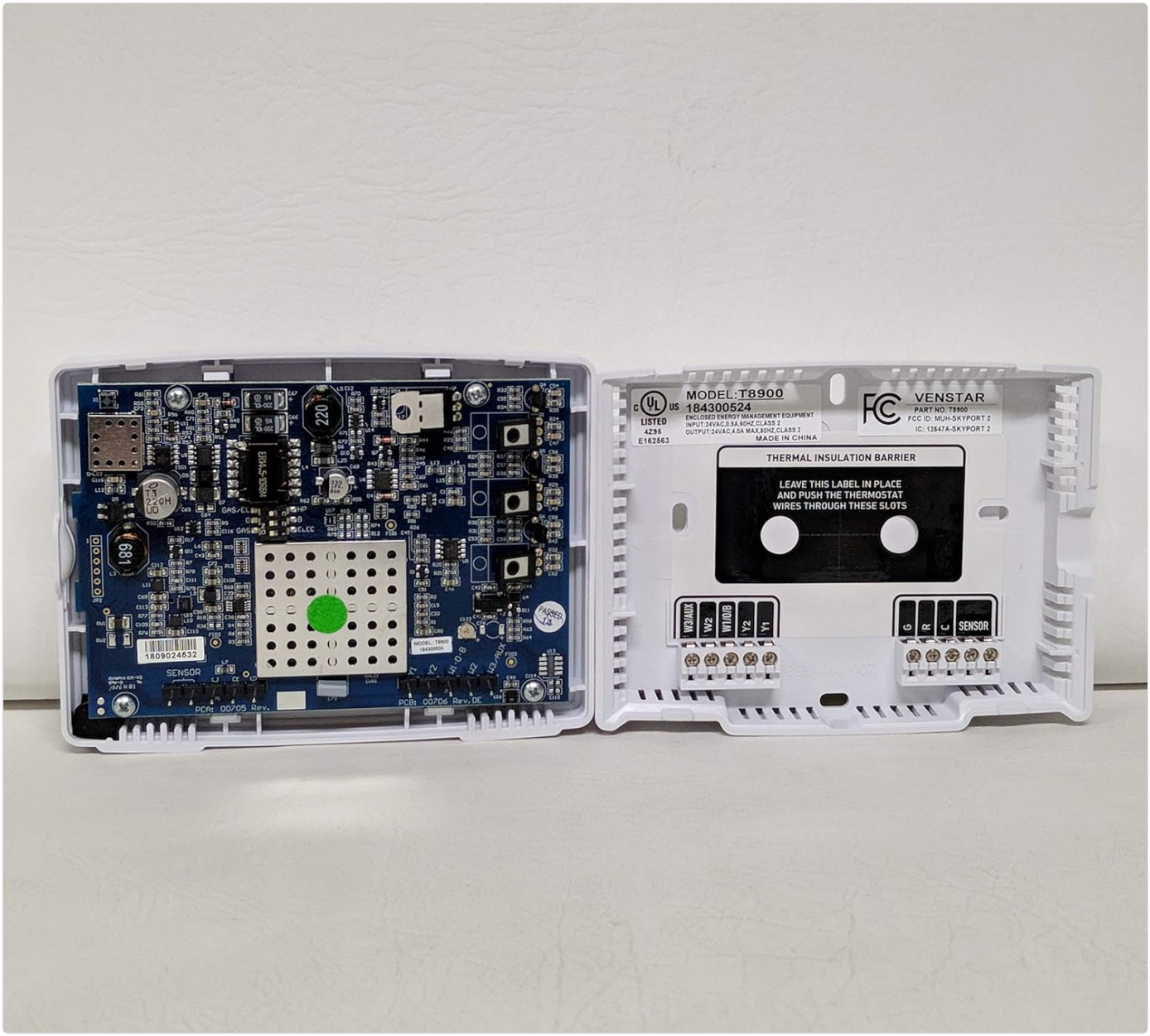


Image: The rear view of the Venstar T8900 Thermostat, displaying the internal circuit board on the left and the wiring terminal block on the right. The terminal block is clearly labeled for various HVAC connections, including R, C, G, Y1, Y2, W1, W2, and SENSOR ports, with a thermal insulation barrier visible.

Initial Power-Up and Configuration

- Once wiring is complete, restore power to your HVAC system.
- The thermostat will power on and guide you through initial setup, including date, time, and system type configuration.
- Connect to your Wi-Fi network using the on-screen prompts to enable remote access and weather features.

Operating Instructions

The Venstar ColorTouch T8900 features an intuitive digital touchscreen interface for easy operation.

Basic Operation

- **Temperature Adjustment:** On the main screen, touch the "Warmer" or "Cooler" buttons to adjust the desired set-point temperature.
- **Mode Selection:** Press the "Mode" button to cycle through available operating modes: Heat, Cool, Auto, Off, and Em Heat (if applicable).

- **Fan Control:** Use the fan icon to select fan operation: Auto (fan runs only when heating/cooling) or On (fan runs continuously).

Advanced Features

- **Scheduling:** Access the "Schedule" option from the main menu to program 7-day schedules, including holiday and vacation settings.
- **Display Customization:** Personalize your thermostat's appearance by uploading custom wallpapers or choosing from pre-installed themes via the "Display" menu.
- **Wi-Fi Connectivity:** Utilize the built-in Wi-Fi to connect to the Venstar Skyport Cloud Services. Download the free mobile app to control your thermostat remotely from anywhere.
- **Security Settings:** Implement passcodes and restrict temperature ranges through the "Security" menu to prevent unauthorized adjustments.



Image: A close-up front view of the Venstar ColorTouch T8900 Thermostat, displaying its digital touchscreen. The screen shows a room temperature of 75 degrees Fahrenheit, set to cooling mode, with options for "Warmer," "Cooler," "Away," "Mode," and "Menu" at the bottom.

Maintenance

The Venstar ColorTouch T8900 Thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Gently wipe the touchscreen and exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents, as they may damage the display or finish.
- **Software Updates:** Ensure your thermostat's firmware is up-to-date. Updates are typically delivered automatically via Wi-Fi or can be manually initiated through the settings menu. Refer to the online support resources for the latest update procedures.

- **Air Filter Replacement:** While not directly part of the thermostat, regularly replacing your HVAC system's air filter is crucial for efficient operation and accurate temperature sensing by the thermostat.

Troubleshooting

This section addresses common issues you might encounter with your Venstar ColorTouch T8900 Thermostat.

Problem	Possible Cause	Solution
Thermostat display is blank.	No power to the thermostat.	Check the circuit breaker for your HVAC system. Ensure the thermostat is properly seated on its backplate.
Thermostat not connecting to Wi-Fi.	Incorrect Wi-Fi password, weak signal, or router issue.	Verify Wi-Fi password. Move router closer or use a Wi-Fi extender. Restart your router.
Temperature readings seem inaccurate.	Thermostat exposed to direct sunlight, drafts, or heat sources; internal sensor calibration needed.	Relocate thermostat if possible. Ensure no obstructions. Consult advanced settings for sensor calibration if available.
HVAC system not responding to thermostat commands.	Incorrect wiring, system mode setting, or HVAC system fault.	Double-check wiring connections. Ensure thermostat mode matches desired operation (Heat/Cool/Auto). Check HVAC system for error codes or power issues.

For more detailed troubleshooting or issues not listed here, please refer to the full Venstar T8900 technical documentation or contact Venstar customer support.

Specifications

Detailed technical specifications for the Venstar ColorTouch T8900 Thermostat:

- **Model:** T8900
- **Brand:** Venstar
- **Product Dimensions:** 6.3"D x 4.7"W x 6.3"H
- **Color:** White
- **Power Source:** Electric, 24 Volts AC
- **Controller Type:** Integrated
- **Temperature Control Type:** Digital
- **Connectivity Technology:** Wi-Fi, Wireless (Wi-Fi)
- **Control Method:** App, Button Control
- **Display Type:** Digital
- **Screen Size:** 6.3 Inches
- **Mounting Type:** Wall Mount
- **Special Features:** Temperature Sensor, Dehumidification Control, 7-Day Programmable, 365 Day Calendar, Weather Tracking, Preoccupancy Fan Purge
- **Included Components:** Free mobile apps

Warranty and Support

Warranty: The Venstar ColorTouch T8900 Thermostat comes with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims.

Customer Support: For technical assistance, product inquiries, or warranty service, please visit the official Venstar website or contact their customer support line. Online resources, including FAQs and detailed user guides, are also available.

Note: The warranty typically covers defects in materials and workmanship under normal use. It may not cover damage resulting from improper installation, misuse, or unauthorized modifications.

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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.

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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