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Venstar T1050

Venstar T1050 Programmable Multi-Stage Thermostat User Manual

Model: T1050

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Venstar T1050 1 Day Programmable Multi-Stage Thermostat. Please read this manual thoroughly before installation and use to ensure proper functionality and to avoid damage to the unit or your HVAC system.



Figure 1: Front view of the Venstar T1050 Thermostat, showing the large digital display, 'Mode' and 'Fan' buttons on the left, and up/down arrow buttons on the right. The display shows current temperature, cool setpoint, and heat setpoint.

SAFETY INFORMATION

- Always turn off power to the heating and cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- Installation should be performed by a qualified technician if you are unsure about any steps.
- Do not expose the thermostat to water or excessive humidity.
- Ensure all wiring connections are secure and comply with local electrical codes.

Setup and Installation

Pre-Installation Checklist:

- Ensure compatibility with your HVAC system (2-stage cooling, 2-stage heating for gas/electric, heat pump, or hydronic systems).
- Gather necessary tools: screwdriver, wire strippers, drill (if needed).
- Turn off power to the HVAC system at the circuit breaker.

Wiring Instructions:

The T1050 thermostat works with 4 or 5 wires (no common necessary). Refer to your existing thermostat's wiring for guidance. Label wires before disconnecting your old thermostat.

Common Wiring Terminals

Terminal	Description
R	24VAC (Heating/Cooling Power)
C	24VAC Common (Optional, but recommended for stable power)
W1/W2	Heat Stage 1 / Heat Stage 2
Y1/Y2	Cool Stage 1 / Cool Stage 2
G	Fan Relay
O/B	Reversing Valve (Heat Pump)

After wiring, mount the thermostat to the wall using the provided screws. Restore power to the HVAC system.

Operating Instructions

Display Overview:

The large display shows the current room temperature, the setpoint for cooling, and the setpoint for heating. A continuous backlight ensures easy readability.

Button Functions:

- **Mode Button:** Press to cycle through operating modes: **HEAT**, **COOL**, **AUTO**, **OFF**.
 - **HEAT:** Thermostat controls heating only.
 - **COOL:** Thermostat controls cooling only.
 - **AUTO:** Automatically switches between heating and cooling as needed to maintain the set temperature range.
 - **OFF:** Heating and cooling systems are off.
- **Fan Button:** Press to cycle through fan modes: **AUTO**, **ON**.
 - **AUTO:** Fan runs only when heating or cooling is active.
 - **ON:** Fan runs continuously.

- **Up/Down Arrows (▲ / ▼):** Adjust the temperature setpoints. Pressing these buttons will display the current setpoint, which can then be adjusted.

Programming (1-Day Programmable):

The T1050 allows for 1-day programming with up to 4 time periods per day. Consult the full programming guide for detailed steps on setting schedules. All programming and set points are stored in non-volatile memory, meaning settings are retained even during power outages.

Thermostat Locking:

This feature allows set points to be adjusted only by authorized individuals. Refer to the advanced settings section in the complete manual for instructions on enabling and disabling this password lockout feature.

MAINTENANCE

- **Cleaning:** Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** (If applicable, check model for battery compartment) Replace batteries annually or when the low battery indicator appears.
- **Sensor Obstruction:** Ensure the thermostat's internal temperature sensor (small dot on the front) is not obstructed by dust or objects, which could affect temperature readings.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Thermostat display is blank.	No power, loose wiring, or dead batteries (if battery-powered).	Check circuit breaker. Ensure wiring is secure. Replace batteries.
System not heating/cooling.	Thermostat in OFF mode, incorrect mode selected, or HVAC system issue.	Set thermostat to HEAT or COOL mode. Check HVAC unit for power or error codes.
Temperature inaccurate.	Thermostat location, obstructed sensor, or calibration needed.	Ensure thermostat is not in direct sunlight or near heat sources. Clean sensor. Consult full manual for calibration.
Programming not working.	Incorrect programming steps, or thermostat locking enabled.	Review programming instructions. Disable thermostat locking if active.

For more complex issues, contact Venstar customer support or a qualified HVAC technician.

SPECIFICATIONS

- Model:** T1050
- Application:** Multi Stage (Heat/Cool)
- Stages:** 2 Heat / 2 Cool
- Programmability:** Programmable 24 Hour (1-Day Programmable, up to 4 time periods per day)
- User Interface:** Push Button
- Mount:** Horizontal Wall Mount
- Display Type:** LCD with continuous backlight
- Color:** White
- Dimensions (H x W x D):** 3.05" x 3.05" x 1.35"

Voltage: 24 Volts

Special Features: Auto Changeover, Password Lockout, Large Buttons, Large Display, Non-volatile memory

Connectivity: Wired

Compliance: UL Listed

WARRANTY AND SUPPORT


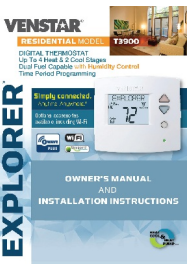

For warranty information and technical support, please refer to the official Venstar website or contact Venstar customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Venstar Contact Information:

Website: www.venstar.com

Customer Service: Refer to the website for phone numbers and email support.

Related Documents - T1050

	<p>Venstar T1075 Fan Coil Thermostat: Owner's Manual and Installation Instructions</p> <p>Comprehensive guide for the Venstar T1075 Fan Coil Thermostat, covering installation, operation, programming, advanced features, and troubleshooting. Learn to optimize your HVAC system.</p>
	<p>Venstar T3900 Explorer Digital Thermostat: Owner's Manual & Installation Guide</p> <p>Explore the features and installation of the Venstar T3900 Explorer digital thermostat, a residential climate control solution offering multi-stage heating/cooling, humidity control, and programmable scheduling.</p>
	<p>Venstar T2700 Commercial Digital Thermostat Installation Instructions</p> <p>Comprehensive installation guide for the Venstar T2700 Non-Programmable Commercial Digital Thermostat, covering wiring, configuration, testing, and troubleshooting.</p>



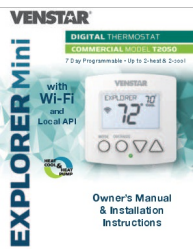
[Venstar T2900SCH Commercial School Programmable Thermostat Owner's Manual](#)

Comprehensive owner's manual for the Venstar T2900SCH Commercial School Programmable Thermostat, detailing features, operation, programming, and advanced setup for efficient HVAC management in educational environments.



[Venstar T2800 Commercial Digital Thermostat Installation Guide](#)

Detailed installation instructions for the Venstar T2800 Commercial 7-Day Programmable Digital Thermostat. Covers wiring, setup, configuration, and troubleshooting for HVAC systems.



[Venstar T2050 Explorer Mini Digital Thermostat: Installation and User Manual](#)

This manual provides detailed instructions for installing, configuring, and operating the Venstar T2050 Explorer Mini digital thermostat, featuring Wi-Fi connectivity and 7-day programmability for efficient home and commercial HVAC management.