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Honeywell T822K1000 Mechanical Thermostat User Manual

Model: T822K1000 (CECOMINOD002849)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Honeywell T822K1000 Mechanical Thermostat. Designed for simplicity and reliability, this mercury-free thermostat offers precise temperature control for heating systems. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

2. SAFETY INFORMATION

WARNING: Electrical Hazard. Installation should only be performed by a qualified individual with electrical knowledge. Disconnect power to the heating system at the main fuse or circuit breaker before installing or servicing this thermostat. Failure to do so may result in electrical shock or equipment damage.

- Ensure all wiring complies with local electrical codes and ordinances.
- Do not use this thermostat for applications other than those specified in this manual.
- This thermostat operates on 24 VAC. Do not connect to higher voltage systems.

3. PRODUCT OVERVIEW AND FEATURES

The Honeywell T822K1000 is a mechanical thermostat designed for heat-only systems. Its simple design ensures ease of use and dependable performance.



Figure 1: Front view of the Honeywell T822K1000 Mechanical Thermostat. It features a white casing with the Honeywell logo, a temperature adjustment slider, and a HEAT/OFF switch. Temperature markings from 50 to 90 degrees are visible.

Key Features:

- **Mercury-Free Design:** Environmentally conscious and compliant with modern standards.
- **Vented Cover:** Enhances temperature sensing accuracy.
- **Integrated Thermometer:** Displays current room temperature.
- **Simple Controls:** Features an adjustment lever for temperature setting and a HEAT-OFF switch.
- **Direct Wall Mount:** Designed for easy installation on a wall or vertical outlet box.
- **Single Stage Heat:** Compatible with 24 VAC heat-only systems.

4. INSTALLATION

This section outlines the general steps for installing the Honeywell T822K1000 thermostat. If you are replacing an existing thermostat, ensure you label the wires before disconnecting them.

Installation Steps:

1. **Disconnect Power:** Turn off the power to your heating system at the circuit breaker or fuse box. Verify power is off before proceeding.
2. **Remove Old Thermostat (if applicable):** Carefully remove the cover of your old thermostat. Disconnect the wires one by one, labeling each wire with the terminal designation (e.g., R, W) it was connected to.

3. **Mount the New Thermostat Base:** The T822K1000 mounts directly to a wall or a vertical outlet box. Secure the thermostat base to the wall using the provided screws. Ensure it is level for accurate temperature readings.
4. **Connect Wiring:** Connect the wires from your heating system to the corresponding terminals on the T822K1000 thermostat. The terminal designations are R and W.
 - **R Terminal:** Connect the 24 VAC power wire.
 - **W Terminal:** Connect the heating call wire.

Ensure connections are secure.

5. **Attach Thermostat Cover:** Carefully align the thermostat cover with the base and snap it into place.
6. **Restore Power:** Turn the power back on to your heating system at the circuit breaker or fuse box.
7. **Test Operation:** Set the system switch to HEAT and adjust the temperature setting above the current room temperature to initiate heating. Verify the heating system responds correctly.

5. OPERATION

Operating your Honeywell T822K1000 thermostat is straightforward.

System Switch:

The system switch on the right side of the thermostat has two positions:

- **HEAT:** Select this position for normal heating operation.
- **OFF:** Select this position to turn off the heating system.

Temperature Setting:

To adjust the desired room temperature, slide the adjustment lever located on the front of the thermostat. The temperature scale ranges from 45°F to 95°F (7°C to 35°C). Set the lever to your preferred temperature. The thermostat will automatically turn your heating system on and off to maintain this setting.

Note for specific heating systems: For some heating systems, such as pellet stoves, if the system shuts down (e.g., runs out of fuel), you may need to briefly move the temperature adjustment lever below the current room temperature and then back to your desired setting to re-engage the heating cycle after the system is ready.

6. MAINTENANCE

The Honeywell T822K1000 thermostat requires minimal maintenance.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **No Batteries Required:** This mechanical thermostat does not require batteries for operation.
- **Avoid Obstructions:** Ensure that the thermostat's vents are not blocked by furniture, curtains, or other objects, as this can affect temperature sensing accuracy.

7. TROUBLESHOOTING

If you experience issues with your thermostat, refer to the following troubleshooting guide before contacting support.

Problem	Possible Cause	Solution
No Heat	Power to heating system is off. Thermostat system switch is set to OFF. Temperature setting is below room temperature. Loose wiring connection. Heating system malfunction.	Check circuit breaker/fuse. Set system switch to HEAT. Adjust temperature setting above current room temperature. Verify wiring connections (ensure power is off first). Contact a qualified HVAC technician.
Inaccurate Temperature Reading	Thermostat located near heat source/draft. Vents are obstructed.	Relocate thermostat if possible, or ensure no direct heat/cold sources. Clear any obstructions around the thermostat.
Heating System Cycles Too Frequently/Infrequently	Thermostat calibration (not user adjustable). System sizing issue.	Ensure thermostat is not in direct sunlight or draft. Consult an HVAC professional.

If problems persist after attempting these solutions, please contact a qualified HVAC technician for assistance.

8. SPECIFICATIONS

Brand	Honeywell
Model Number	T822K1000 (CECOMINOD002849)
Application	Heat only
Voltage	20 to 30 Vac (24 Volts nominal)
Stages	1 Heat
Temperature Range	45°F to 95°F (7°C to 35°C)
Accuracy	±2°F (±1°C)
Switch Type	Precision Snap Action (SPST)
Terminal Designations	R, W
Dimensions (H x W x D)	4.764 in. H x 2.874 in. W x 1.378 in. D (approx. 121mm x 73mm x 35mm)
Mounting Type	Vertical Wall Mount
Color	Premier White
Special Features	Integrated Thermometer, Mercury-Free

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official Honeywell website. Keep your purchase receipt as proof of purchase for any warranty claims.

Honeywell Customer Support: For further assistance, please visit [Honeywell Home Support](#).