Honeywell Home CT87N1001

Honeywell Home CT87N1001 The Round Non-Programmable Thermostat

INSTRUCTION MANUAL

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Honeywell Home CT87N1001 The Round Non-Programmable Thermostat. Designed for simplicity and reliability, this thermostat offers straightforward temperature control for your home's heating and cooling systems.

Key Features:

- Familiar circular design with simple twist action for easy temperature setting.
- Provides accurate performance for consistent comfort.
- Mercury-free design.
- Includes a decorative covering ring to conceal any previous wall marks.
- Offers precise temperature control within +/- 1°F.

Product Overview

Figure 1: Front view of the Honeywell Home CT87N1001 Thermostat, showing the classic round design with temperature dial.

CT87N Thermostat System Compatibility

Heating

Compatible:
- ☑ Heating Only
- ☑ Single Stage
- ☑ Furnace/Forced Air
- ☑ Hot Water and Steam Radiant Heat
- ☑ Gas Fireplaces (24 V)

Not Compatible:
- ☐ Multistage
- ☐ Heat Pump with Auxiliary Heat
- ☐ Heat Pump w/o Auxiliary Heat
- ☐ Gravity Radiant Heat
- ☐ 750 Millivolt

Cooling

Compatible:
- ☑ Cooling Only
- ☑ Single Stage

Not Compatible:
- ☐ Multistage
- ☐ Mini Split Systems

Electric Heat

Not Compatible:
- ☐ Electric Baseboard Heat (120-240 Volts)
- ☐ Convectors
- ☐ Radiant Ceiling Heat

Figure 2: Back view of the Honeywell Home CT87N1001 Thermostat, showing wiring terminals and system type switches.

Figure 3: Dimensions of the Honeywell Home CT87N1001 Thermostat, measuring approximately 3.25 inches in diameter and 1.5 inches deep.

Installation

Safety First: Before beginning any installation, ensure the power to your heating and cooling system is turned OFF at the main circuit breaker or fuse box. Failure to do so can result in electrical shock or equipment damage.

Professional Installation Recommended: If you are unfamiliar with electrical wiring or HVAC systems, it is highly recommended to consult a qualified HVAC technician for installation.

Compatibility

The CT87N1001 thermostat is designed for specific heating and cooling systems. Please refer to the compatibility chart below to ensure your system is supported.

Figure 4: Compatibility chart for the CT87N Thermostat. It is compatible with Heating Only (Single Stage, Furnace/Forced Air, Hot Water and Steam Radiant Heat, Gas Fireplaces (24V)) and Cooling Only (Single Stage). It is NOT compatible with Multistage, Heat Pump with Auxiliary Heat, Heat Pump w/o Auxiliary Heat, Gravity Radiant Heat, 750 Millivolt, Electric Baseboard Heat (120-240 Volts), Convectors, or Radiant Ceiling Heat systems.

Mounting and Wiring

1. **Remove Old Thermostat:** Carefully remove your old thermostat from the wall. Take a picture of the existing wiring connections before disconnecting any wires. Label each wire with the terminal it was connected to.
2. **Mounting Plate:** Secure the new thermostat's mounting plate to the wall using the provided screws and anchors. Ensure it is level.
3. **Connect Wires:** Connect the labeled wires to the corresponding terminals on the new thermostat. Refer to the wiring diagram in the product packaging for specific connections.
4. **Attach Thermostat:** Once wiring is complete, carefully attach the thermostat body to the mounting plate.
5. **Restore Power:** Turn the power back ON at the main circuit breaker or fuse box.

Operating Instructions

The Honeywell Home CT87N1001 thermostat is designed for simple, manual operation.

Setting the Temperature

- To adjust the desired temperature, gently rotate the outer ring of the thermostat.
- Align the red indicator on the dial with your preferred temperature setting. The thermostat will maintain this temperature.

System Mode Selection

Use the switch located on the top of the thermostat to select the desired system mode:

- **HEAT:** Activates the heating system to maintain the set temperature.
- **OFF:** Turns off both heating and cooling systems.
- **COOL:** Activates the cooling system to maintain the set temperature.

Fan Operation

Use the switch located on the side of the thermostat to control the fan:

- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.
- **AUTO:** The fan runs only when the heating or cooling system is actively operating.

Your browser does not support the video tag.

Video 1: A product demonstration video showing the basic operation and features of the Honeywell Home CT87N1001 thermostat, including how to adjust the temperature dial and switch between system modes.

Maintenance

- **Cleaning:** Wipe the thermostat with a soft, damp cloth to remove dust or smudges. Do not use abrasive cleaners or solvents.
- **Battery Check:** While the thermostat is primarily line-powered, some models may include a small button-cell battery (e.g., #2450) for the anticipator or to maintain settings during power outages. If the thermostat exhibits erratic behavior, checking or replacing this battery may resolve the issue. Consult a professional if unsure.

Troubleshooting

If you experience issues with your thermostat, consider the following common troubleshooting steps:

- **No Power/System Not Responding:**
  - Check if the main power to your HVAC system is turned on at the circuit breaker.
  - Ensure all wiring connections are secure and correctly matched.

- **Incorrect Temperature Readings:**
  - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources (e.g., lamps, appliances) that could affect its temperature sensor.
  - Verify the thermostat is securely mounted to the wall.

- **System Cycles On/Off Frequently (Short Cycling):**
  - This could indicate an issue with the thermostat's anticipator or a system imbalance. If applicable, check the internal battery as mentioned in the Maintenance section.
  - Consult an HVAC professional if the issue persists.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified HVAC service technician.

Specifications

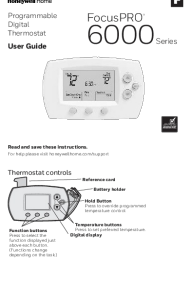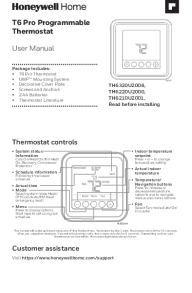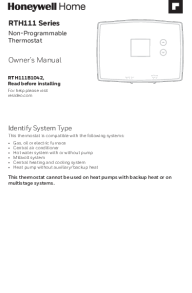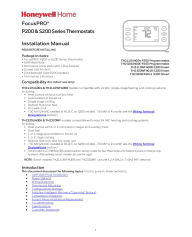| Feature	Detail
Brand	Honeywell Home
Model Name	The Round
Product Dimensions	1.5"D x 3.25"W x 3.25"H
Controller Type	Mechanical knob
Special Feature	Temperature Display
Color	White
Specific Uses For Product	Furnace
Temperature Control Type	Heating and Cooling
Included Components	CT87 thermostat, wall cover, large print subbase switch labels, wall anchors & screws (2 each), wire labels and installation guide
Power Source	Battery Powered (Note: May refer to internal mechanism or backup, not primary power for all functions)
Item Weight	2.4 ounces
Voltage	120 Volts (Note: Check system compatibility for specific voltage requirements)
Material	Plastic
Shape	Round
Display Type	Manual
Control Type	Dial Control
Mounting Type	Wall Mount
Backlight	Yes
UPC	085267263696
Item model number	CT87N1001/N

Warranty and Support

Warranty information for the Honeywell Home CT87N1001 Thermostat is typically included with the product packaging. Please refer to the documentation provided at the time of purchase for specific warranty terms and conditions.

For technical support, product inquiries, or to locate authorized service providers, please visit the official

Honeywell Home website or contact their customer service department.

Related Documents - CT87N1001

[Honeywell Home T6 Pro Programmable Thermostat: User Guide and Operation](#)
Detailed product information and user guide for the Honeywell Home T6 Pro Programmable Thermostat (models TH6320U2008, TH6220U2000, TH6210U2001), covering installation, programming, system and fan settings, time/date configuration, and troubleshooting.

[Honeywell Home FocusPRO 6000 Series Programmable Digital Thermostat User Guide](#)
This user guide provides comprehensive instructions for the Honeywell Home FocusPRO 6000 Series Programmable Digital Thermostat, covering its features, programming, operation, troubleshooting, and warranty information.

[Honeywell Home T6 Pro Programmable Thermostat User Manual - Setup and Operation Guide](#)
This user manual provides comprehensive instructions for the Honeywell Home T6 Pro Programmable Thermostat, covering installation, setup, operation, scheduling, troubleshooting, and maintenance. Learn how to program your thermostat for optimal comfort and energy savings.

[Honeywell Home RTH111 Series Non-Programmable Thermostat Owner's Manual](#)
Owner's manual for the Honeywell Home RTH111 Series non-programmable thermostat, providing installation, operation, troubleshooting, and warranty information.

[Honeywell Home FocusPRO P200 & S200 Series Thermostats Installation Manual](#)
Comprehensive installation manual for Honeywell Home FocusPRO P200 and S200 series thermostats, detailing setup, wiring diagrams, configuration options, and troubleshooting for efficient home climate control. Includes compatibility information and model specifics.

[Honeywell Home T8775A,C Digital Round Non-Programmable Thermostat Installation and Operation Guide](#)

This guide provides comprehensive installation, customization, and operation instructions for the Honeywell Home T8775A,C Digital Round non-programmable thermostat. Learn about wiring diagrams, setup procedures, and system checks.