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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, programming, and maintenance of your Honeywell TH4110U2005/U T4 Pro Thermostat. This thermostat is designed to control 1 Heat/1 Cool conventional and heat pump systems, offering both programmable and non-programmable options for efficient temperature management.

Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent potential damage to the unit or your HVAC system.

2. SAFETY INFORMATION

WARNING: Electrical Hazard

- Always turn off power at the circuit breaker or fuse box before beginning installation to prevent electrical shock or equipment damage.
- This thermostat operates on 24 Volts AC. Do not connect to line voltage (120V/240V).
- Installation should be performed by a qualified HVAC professional. Improper installation can void the product warranty and cause system malfunction.
- Ensure all wiring connections are secure and comply with local electrical codes.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Honeywell TH4110U2005/U T4 Pro Thermostat
- UWP Mounting System
- Mounting Hardware (screws and wall anchors)
- User Guide (this document)
- 2 AA Batteries

4. SETUP AND INSTALLATION

4.1 Mounting the Thermostat

The T4 Pro Thermostat uses a UWP (Universal Wiring Plate) mounting system for easy installation. Follow these steps:

1. Turn off power to your heating/cooling system at the circuit breaker.
2. Remove your old thermostat from the wall.
3. Mount the UWP to the wall using the provided screws and wall anchors. Ensure it is level.
4. Connect the wiring as described in the next section.
5. Snap the T4 Pro Thermostat onto the UWP.

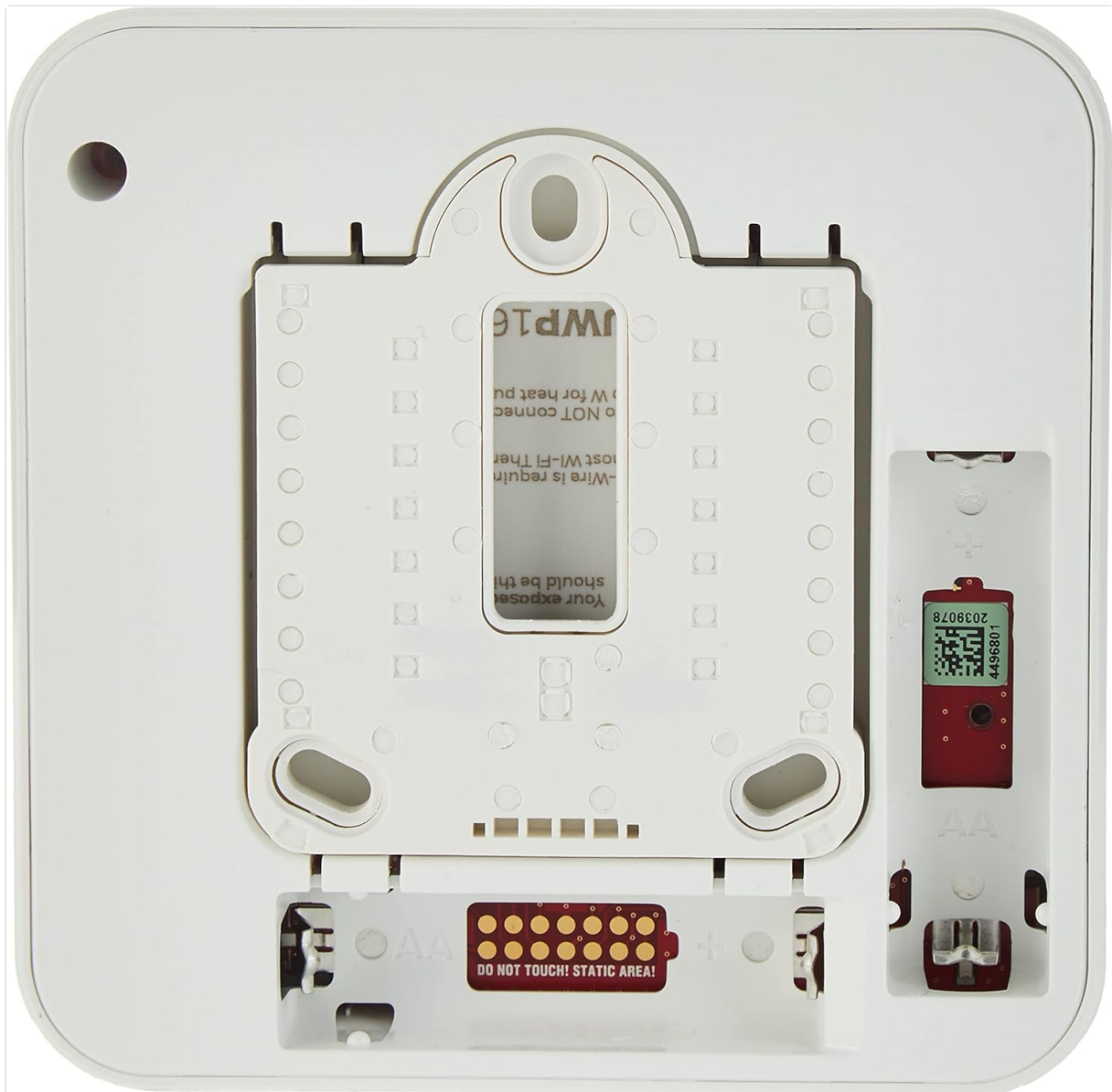


Image: Back view of the Honeywell T4 Pro Thermostat, illustrating the UWP mounting plate and the terminal block for wiring connections. The battery compartment is also visible.

4.2 Wiring Connections

The T4 Pro Thermostat supports 1 Heat/1 Cool conventional systems and 1 Heat/1 Cool heat pump systems. Refer to your system's wiring diagram. If a common wire (C-wire) is available, connect it to the 'C'

terminal on the UWP for continuous power, reducing reliance on batteries. If no C-wire is present, the thermostat will operate on battery power.

Typical Wiring Terminals:

- **R/Rc:** 24V AC power (heating/cooling)
- **C:** Common wire (optional, but recommended for continuous power)
- **W/Aux:** Heat (conventional) / Auxiliary Heat (heat pump)
- **Y:** Compressor (cooling)
- **G:** Fan
- **O/B:** Reversing valve (heat pump)

4.3 Initial Configuration

After installation and power restoration, the thermostat will guide you through initial setup. This includes selecting your system type (e.g., conventional furnace, heat pump) and other basic settings. Accurate configuration is crucial for optimal performance.

5. OPERATING THE THERMOSTAT



Image: Front view of the Honeywell T4 Pro Thermostat, displaying its LCD screen and the '+' and '-' buttons for temperature adjustment.

5.1 Display Overview

The LCD screen displays the current temperature, setpoint, system mode, fan status, and programming information. The backlight illuminates the display for better visibility, though some users may find its brightness to be moderate.

5.2 Basic Controls

- **Temperature Adjustment:** Use the + and - buttons on the front of the thermostat to raise or lower the desired temperature setpoint.
- **System Mode:** Press the 'Mode' button (typically on the side or bottom) to cycle through available system modes: Heat, Cool, Off.
- **Fan Control:** Press the 'Fan' button to select fan operation: 'Auto' (fan runs only when heating/cooling) or 'On' (fan runs continuously).

6. PROGRAMMING YOUR THERMOSTAT

The T4 Pro Thermostat offers flexible programming options to suit your schedule and energy saving preferences. You can choose between 7-day, 5-2 day, or 5-1-1 day programming, or operate it as a non-programmable thermostat.

6.1 Setting a Schedule

Access the programming menu (refer to the on-screen prompts or specific button combinations in the full manual) to set up your desired temperature schedule for different times of the day and days of the week. Each programming period (e.g., Wake, Away, Home, Sleep) can have a unique temperature setpoint.

6.2 Temperature Holds

- **Temporary Hold:** Adjusting the temperature using the **+** or **-** buttons will temporarily override the schedule until the next programmed period begins.
- **Permanent Hold:** To maintain a specific temperature indefinitely, enter the 'Hold' function (usually by pressing a dedicated 'Hold' button or navigating through the menu). The thermostat will maintain this temperature until the hold is manually canceled.

7. MAINTENANCE

7.1 Battery Replacement

The thermostat requires two AA batteries for operation if a C-wire is not connected, or for backup power to maintain the clock and settings during a power outage. A low battery indicator will appear on the display when batteries need replacement. To replace:

1. Gently pull the thermostat body away from the UWP mounting plate.
2. Remove the old AA batteries.
3. Insert two new AA alkaline batteries, observing polarity (+/-).
4. Snap the thermostat back onto the UWP.

7.2 Filter Change Reminder

The thermostat can be configured to remind you when it's time to change your HVAC system's air filter. When the reminder appears, change the filter and reset the reminder through the thermostat's menu settings.

8. TROUBLESHOOTING

If you experience issues with your Honeywell T4 Pro Thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display or blank screen	No power, dead batteries, or loose wiring.	Check circuit breaker. Replace AA batteries. Verify secure wiring connections at the UWP.
System not responding (no heating/cooling)	Incorrect system mode, wiring issue, or HVAC system fault.	Ensure thermostat is in 'Heat' or 'Cool' mode. Check wiring. Consult an HVAC professional if the system itself is not functioning.
Display temperature seems inaccurate	Thermostat location, system cycling settings.	Ensure thermostat is not exposed to direct sunlight or drafts. Review advanced installer settings for cycles per hour (CPH) to optimize system performance.
Backlight is dim	Normal operation for this model.	The backlight on this model is designed to be moderate. Ensure fresh batteries if operating without a C-wire.

For more complex issues or if troubleshooting steps do not resolve the problem, contact Honeywell customer support or a qualified HVAC technician.

9. SPECIFICATIONS

- **Brand:** Honeywell
- **Model:** TH4110U2005/U
- **Controller Type:** Push Button
- **Special Feature:** Programmable (7-day, 5-2 day, 5-1-1 day options)
- **Color:** White
- **Specific Uses:** Heat Pump, Conventional HVAC Systems
- **Temperature Control Type:** Heating, Cooling
- **Connectivity Technology:** Wired
- **Power Source:** Battery Powered (2 AA batteries required) or 24V AC (with C-wire)
- **Voltage:** 24 Volts AC
- **Display Type:** LCD
- **Control Method:** Button Control
- **Mounting Type:** UWP mounting
- **Backlight:** Yes
- **Product Dimensions:** 10.3 x 2.8 x 10.3 inches
- **Item Weight:** 9.9 ounces

10. WARRANTY AND SUPPORT

10.1 Warranty Information

Honeywell products typically come with a limited warranty. Please note that the warranty for this thermostat may be contingent on professional installation. Installation by a homeowner might void the manufacturer's warranty. For complete details regarding your product's warranty period and terms, please refer to the documentation included with your purchase or visit the official Honeywell website.

10.2 Customer Support

If you require further assistance with installation, operation, or troubleshooting, please contact Honeywell customer support. You can typically find contact information on the Honeywell website or in the packaging materials.