

CTDOFUM T6861H2WB

CTDOFUM T6861H2WB Digital Fan-Coil Thermostat User Manual

Model: T6861H2WB Series: T6861

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the CTDOFUM T6861H2WB Digital Fan-Coil Thermostat. This device is designed for HVAC systems, specifically 2/4 pipe fan-coil applications, offering precise temperature control and a user-friendly interface.

Important Safety Information:

- Installation must be performed by a qualified professional.
- Read this manual thoroughly before installation and operation.
- Ensure the thermostat is compatible with your HVAC system.
- Retain this manual for future reference.
- Always disconnect power before installation or maintenance to prevent electric shock.

2. PRODUCT OVERVIEW

The CTDOFUM T6861 series digital thermostat features a slim-line design with a large blue backlit screen for clear visibility. It is equipped with an easy-to-read digital display and a settable key lock function, making it suitable for various environments including offices, hotels, and residential apartments.



Figure 2.1: Front view of two T6861H2WB thermostats alongside their instruction manuals, illustrating the product's design and packaging.



Figure 2.2: Close-up front view of the T6861H2WB thermostat, highlighting the large digital display and control buttons.

3. SPECIFICATIONS

Feature	Description
Model Number	T6861H2WB (Horizontal Mount)
System Compatibility	220 Vac 2/4 Pipe Fan Coil
Power	AC Electric
Display	Large Blue Backlit Screen
Material	Plastic
Item Weight	50 Grams (1.76 ounces)
Package Dimensions	11.81 x 7.87 x 3.94 inches

Note: Another variant, T6861V2WB, is available for vertical mounting. This manual focuses on the T6861H2WB (horizontal mount) model.

4. SETUP AND INSTALLATION

Warning: Installation should only be performed by a qualified electrician or HVAC technician. Ensure power is disconnected at the main circuit breaker before proceeding.

4.1 Mounting the Thermostat

The T6861H2WB is designed for horizontal mounting. Refer to the wiring diagram for proper connection.



Figure 4.1: Rear view of the T6861H2WB thermostat, displaying the connection terminals and mounting points. This view is crucial for understanding wiring and installation.

4.2 Wiring Instructions

The thermostat supports 2/4 pipe fan-coil systems. A detailed wiring diagram is typically provided with the product packaging. For a 4-pipe fan coil system (1 Heat/1 Cool), ensure connections are made according to the specific diagram for your system type.



Figure 4.2: Side view of the T6861H2WB thermostat, showing the internal wiring harness. This illustrates the connection points for the HVAC system.

General Wiring Steps:

1. Disconnect power to the HVAC system at the circuit breaker.
2. Remove the old thermostat (if applicable) and label existing wires.
3. Mount the new T6861H2WB thermostat base to the wall using appropriate screws.
4. Connect the wires from your HVAC system to the corresponding terminals on the thermostat. Refer to the specific wiring diagram for your system (e.g., 2-pipe or 4-pipe).
5. Secure the thermostat faceplate onto the base.
6. Restore power to the HVAC system.

5. OPERATING INSTRUCTIONS

The T6861H2WB thermostat is designed for intuitive operation with its large backlit display and clear controls.

5.1 Powering On/Off

Press the **Power** button to turn the thermostat on or off. When off, the screen will typically display the current time or remain blank, depending on settings.

5.2 Setting Temperature

Use the **Up** and **Down** arrow buttons to adjust the desired temperature setpoint. The new setpoint will be displayed prominently on the screen.

5.3 Mode Selection

Press the **Mode** button to cycle through available operating modes, which may include:

- **Heat:** Activates heating function.
- **Cool:** Activates cooling function.
- **Auto:** Automatically switches between heating and cooling based on setpoint and ambient temperature.
- **Fan:** Controls fan operation (e.g., Auto, On).

5.4 Fan Speed Control

If available, use the **Fan Speed** button to select desired fan speed (e.g., Low, Medium, High, Auto).

5.5 Key Lock Function

The thermostat may feature a settable key lock to prevent unauthorized changes. Refer to the specific instructions in your product's included manual for how to activate and deactivate this feature.

6. MAINTENANCE

The CTDOFUM T6861H2WB thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Gently wipe the screen and exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Dust Removal:** Periodically ensure that the thermostat's vents (if any) are free from dust accumulation to allow for accurate temperature sensing.
- **Battery Replacement:** This thermostat is typically hardwired and does not use batteries for primary operation. If your model has a backup battery for settings, refer to the specific instructions for replacement.
- **Professional Inspection:** It is recommended to have your HVAC system, including the thermostat, inspected by a qualified technician annually.

7. TROUBLESHOOTING

If you encounter issues with your CTDOFUM T6861H2WB thermostat, try the following troubleshooting steps:

Problem	Possible Cause	Solution
Thermostat not powering on.	No power supply; loose wiring.	Check circuit breaker. Verify wiring connections (consult a professional).
HVAC system not responding to thermostat.	Incorrect mode selected; wiring issue; system fault.	Ensure correct mode (Heat/Cool/Auto) is selected. Check wiring. Consult HVAC technician if system fault is suspected.
Temperature readings seem inaccurate.	Thermostat located near heat source/draft; blocked vents.	Relocate thermostat if possible. Clear any obstructions around the thermostat.

Problem	Possible Cause	Solution
Keypad is locked.	Key lock feature activated.	Refer to the operating instructions for your specific model to unlock the keypad.

If problems persist after attempting these solutions, contact a qualified HVAC technician or CTDOFUM customer support for assistance.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official CTDOFUM website. Keep your purchase receipt as proof of purchase for warranty claims.

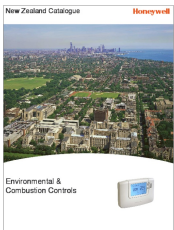
Manufacturer: CTDOFUM

Model Name: CTDOFUM *(Note: This appears to be a generic model name from product data. Refer to T6861H2WB for specific product model.)*

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Related Documents - T6861H2WB

	<p>Honeywell Environmental & Combustion Controls Catalogue - New Zealand</p> <p>Comprehensive catalogue and selection guide for Honeywell Environmental & Combustion Controls (ECC) in New Zealand, featuring thermostats, valves, actuators, sensors, and burner controls for residential, commercial, and industrial applications.</p>
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