

## Tiiyee THC15A

# Tiiyee THC15A Digital Programmable Timer Switch

## USER MANUAL

### Introduction

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This manual provides detailed instructions for the installation, programming, and operation of your Tiiyee THC15A Digital Programmable Timer Switch. This device is designed for precise, automatic control of various electrical equipment, offering daily and weekly programming capabilities with up to 16 ON and 8 OFF settings. Please read this manual thoroughly before use to ensure proper function and safety.

### Safety Information

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- Always disconnect power before installation or maintenance to prevent electric shock.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Do not exceed the specified load capacity of the timer switch.
- Ensure proper grounding where required.
- Keep the device away from water and extreme temperatures.

### Product Overview

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The Tiiyee THC15A is a compact, DIN rail-mountable digital timer switch featuring an LCD display and intuitive control buttons for easy programming.



Front view of the Tiiyee THC15A Digital Timer Switch with the protective cover open, displaying the LCD screen and control buttons for programming.



Close-up detail of the Tiiyee THC15A Digital Timer Switch's LCD screen and control buttons, including P, D+, H+, M+, Reset, and Manual C/R.

## Components:

- **LCD Display:** Shows current time, day, and programming status (ON/AUTO/OFF).
- **Control Buttons:**
  - **P (Program):** Enters/exits programming mode.
  - **D+ (Day+):** Adjusts day in time/program setting.
  - **H+ (Hour+):** Adjusts hour in time/program setting.
  - **M+ (Minute+):** Adjusts minute in time/program setting.
  - **(Clock Icon):** Used to set current time (often pressed with other buttons).
  - **RESET:** Clears all settings and resets the timer.
  - **MANUAL C/R:** Manual override for ON/OFF status.
- **Wiring Terminals:** Connections for power input and load output.
- **DIN Rail Clips:** For mounting on a standard DIN rail.

## Specifications

Feature	Specification
Input Voltage	AC/DC12V, AC/DC24V, AC110V (This model is 110V)
Contact Voltage Rating	AC 180V to 264V (50/60Hz)
Load Capacity	16A 250VAC (resistive load)
On/Off Operation	16 ON and 8 OFF settings
Display	LCD
Power Consumption	4.5VA (max)
Time Error	≤2s/day (at 25°C)
Mounting Method	DIN rail (not included)
Timing Range	1 minute to 168 hours
Operating Temperature	-10°C to 55°C
Dimensions	86 x 36 x 65mm / 3.38 x 1.41 x 2.56 inches

## Setup

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### 1. Initial Power-up and Reset

1. Upon first use, connect the timer to an AC power source to charge the internal battery. Allow a few minutes for charging.
2. Press the **RESET** button (usually a small recessed button requiring a pointed object like a pen tip) to clear all factory settings and initialize the timer. The LCD will display '00:00' and 'AUTO'.

### 2. Setting Current Time

After resetting, set the current day and time:

1. Press and hold the (Clock Icon) button.
2. While holding the button, press **D+** to set the current day of the week (MO, TU, WE, TH, FR, SA, SU).
3. While holding the button, press **H+** to set the current hour.
4. While holding the button, press **M+** to set the current minute.
5. Release the button. The time is now set.

### 3. Wiring Instructions

Refer to the wiring diagrams on the device and below. Ensure power is disconnected before wiring.



*Rear view of the Tiiyee THC15A Digital Timer Switch, illustrating the wiring terminals (L, N, 1, 2, 3, 4, 5) and electrical specifications.*



Bottom view of the Tiiyee THC15A Digital Timer Switch, clearly showing the screw terminals for electrical connections.

- **Terminals 1 & 2:** Power input for the timer (e.g., 110V AC Live and Neutral).
- **Terminals 3, 4, 5:** Output contacts for controlling your load.
  - **Terminal 3:** Normally Closed (NC) contact.
  - **Terminal 4:** Common (COM) contact.
  - **Terminal 5:** Normally Open (NO) contact.
- Connect the Live wire from your power source to Terminal 1.

- Connect the Neutral wire from your power source to Terminal 2.
- For your load (e.g., a lamp), connect one side of the load to the Neutral wire.
- Connect the other side of the load to Terminal 5 (NO) for typical ON/OFF control.
- Connect a jumper wire from Terminal 1 (Live) to Terminal 4 (COM).

## Operating

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### 1. Programming ON/OFF Cycles

The timer supports up to 16 ON and 8 OFF programs.

1. Press the **P** button once. The display will show '1 ON'. This is your first ON program.
2. Press **D+** to select the day(s) for this program. You can choose individual days, weekdays, weekends, or various combinations.
3. Press **H+** to set the hour for the first ON time.
4. Press **M+** to set the minute for the first ON time.
5. Press **P** again. The display will show '1 OFF'. This is your first OFF program.
6. Repeat steps 2-4 to set the day(s), hour, and minute for the first OFF time.
7. Continue pressing **P** to cycle through '2 ON', '2 OFF', up to '16 ON' and '8 OFF' programs, setting each as desired.
8. After setting all desired programs, press the (Clock Icon) button to exit programming mode and return to the current time display.

### 2. Manual Override (MANUAL C/R)

The **MANUAL C/R** button allows you to temporarily override the programmed settings:

- Pressing **MANUAL C/R** will cycle the output status through ON, AUTO ON, OFF, AUTO OFF.
- **ON**: Output is continuously ON, ignoring programs.
- **AUTO ON**: Output is currently ON, following programs.
- **OFF**: Output is continuously OFF, ignoring programs.
- **AUTO OFF**: Output is currently OFF, following programs.
- For normal operation, ensure the display shows 'AUTO'.

### 3. 12/24 Hour Mode Selection

To switch between 12-hour (AM/PM) and 24-hour modes:

- From the current time display, press and hold the (Clock Icon) button for approximately 5 seconds.
- The display will show 'AM' or 'PM' for 12-hour mode, or switch to 24-hour format.
- Repeat the process to toggle back to the other mode.

## Maintenance

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- Clean the timer's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- The internal battery is designed for long-term use and is not user-replaceable. If the timer loses time or settings frequently, ensure it is consistently connected to power to allow the battery to charge.
- Regularly check wiring connections for tightness and signs of wear.

## Troubleshooting

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Problem	Possible Cause	Solution
Display is blank or dim.	No power supply; internal battery discharged.	Check power connections. Connect to AC power for several minutes to charge the internal battery.
Timer does not switch ON/OFF as programmed.	Incorrect programming; timer is in manual override mode; wiring issue.	Verify program settings. Ensure the display shows 'AUTO'. Check wiring connections.
Time is inaccurate.	Internal battery low; environmental factors.	Ensure continuous power supply to charge the battery. Reset and re-set the time.
Cannot enter programming mode.	Buttons not responding; device malfunction.	Press the RESET button. If the issue persists, contact customer support.

## Warranty and Support

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This Tiiyee product is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the product packaging or contact your retailer. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Tiiyee customer service through the retailer's platform or the official brand website.