

Ymiko THC 15A Digital Timer

Ymiko THC 15A Digital Timer (110V) User Manual

Model: THC 15A Digital Timer | Brand: Ymiko

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and programming of your Ymiko THC 15A Digital Timer (110V model). This device is designed to automatically control electrical equipment based on user-defined schedules, enhancing convenience and energy efficiency for various applications.

2. PRODUCT OVERVIEW AND FEATURES

The Ymiko THC 15A Digital Timer is a versatile programmable time switch suitable for a wide range of applications, including street lamps, neon lamps, production equipment, radio, television, and other home appliances. Key features include:

- **7-Day Digital Programmable Timer:** Offers daily and weekly programming with up to 16 ON and 16 OFF settings.
- **High Precision:** Setting accuracy to the minute, with a full time range from 1 minute to 168 hours.
- **LCD Display:** Large screen displays real-time hour/minute and ON/AUTO/OFF status for clear readability.
- **Built-in Rechargeable Battery:** A 1.2V/40mA battery and industrial-grade chip ensure program retention during power outages.
- **User-Friendly Interface:** Large screen and clear buttons (D+, H+, M+) facilitate easy and accurate operation.
- **Strong Anti-Interference Ability:** Designed for reliable performance in various environments.

3. SPECIFICATIONS

Voltage Rating	AC 110V 50/60Hz
Number of Circuits	1 changeover switch (SPDT)
Error	≤2S/day (at 25°C)
ON/OFF Programs	16 times ON and 16 times OFF (manual / auto)
Power Consumption	4.5VA (max)
Time Range	1 minute - 168 hours
Battery Backup	≥15 days (1.2V/40mA rechargeable battery)

Minimum Interval	1 minute
Load Capacity	16A 250VAC (Resistive Load)
Mechanical Life	10 ⁷ operations
Electrical Life	10 ⁵ operations
Humidity	35-85%RH
Operating Temperature	-10 to 55 °C
Mounting Method	36mm DIN rail
Item Size	87 x 64 x 35 mm (3.43 x 2.52 x 1.38 inches)

4. PRODUCT DIAGRAM AND COMPONENTS



Figure 1: Ymiko THC 15A Digital Timer (110V) Front and Side View.

This image displays the Ymiko THC 15A Digital Timer. The front panel features an LCD screen at the top, showing current time, day, and operational status (ON/AUTO). Below the screen are the control buttons: 'P' (Program), 'D+' (Day), 'H+' (Hour), 'M+' (Minute), 'RESET', and 'MANUAL C/R' (Manual Control/Cancel/Restore). A transparent protective cover shields the screen and buttons. On the right side, the device includes wiring terminals labeled 'L' and 'N' for power input, and '3', '4', '5' for the relay output (Normally Closed, Common, Normally Open respectively). The device also shows 'AC110V 25(16)A 240VAC' indicating its electrical specifications and a 'CE' marking.

Button Functions:

- **P (Program):** Enters/exits programming mode.
- **D+ (Day):** Adjusts the day of the week or selects days for program settings.
- **H+ (Hour):** Adjusts the hour.
- **M+ (Minute):** Adjusts the minute.
- **RESET:** Clears all settings and resets the timer to factory defaults.
- **MANUAL C/R (Manual Control/Cancel/Restore):** Manually overrides the current ON/OFF state or cancels/restores programs.

5. INSTALLATION AND WIRING

Safety Precaution: Ensure power is disconnected before performing any wiring. Installation should be performed by a qualified electrician if you are unsure.

1. **Mounting:** The timer is designed for 36mm DIN rail mounting. Securely attach it to the DIN rail in your electrical panel.
2. **Power Supply Wiring (AC 110V):**
 - Connect the Live (L) wire of your 110V AC power supply to the terminal labeled '**L**' on the timer.
 - Connect the Neutral (N) wire of your 110V AC power supply to the terminal labeled '**N**' on the timer.
3. **Load Wiring (Output):** The timer features a Single Pole Double Throw (SPDT) relay with Common (C), Normally Open (NO), and Normally Closed (NC) contacts.
 - Identify the load you wish to control (e.g., a lamp, fan).
 - Connect the Live wire from your power source (or a switched Live from a circuit breaker) to the **Common (C) terminal, labeled '4'** on the timer.
 - If you want the load to turn ON when the timer activates, connect one side of your load to the **Normally Open (NO) terminal, labeled '5'**. The other side of your load should connect to Neutral.
 - If you want the load to turn OFF when the timer activates (i.e., it's normally ON), connect one side of your load to the **Normally Closed (NC) terminal, labeled '3'**. The other side of your load should connect to Neutral.
 - Ensure all connections are secure and insulated.
4. **Initial Power-Up:** After wiring, restore power. The LCD should illuminate. If the display is blank, press the 'RESET' button with a pointed object (e.g., a pen tip).

6. OPERATING INSTRUCTIONS

6.1. Setting Current Time and Day

1. Ensure the timer is powered on and the display is active.
2. Press and hold the **P** button for approximately 3 seconds until the display flashes. This enters time setting mode.
3. Press **D+** repeatedly to set the current day of the week (MON, TUE, WED, THU, FRI, SAT, SUN).

4. Press **H+** repeatedly to set the current hour (0-23 for 24-hour format).
5. Press **M+** repeatedly to set the current minute (0-59).
6. Press the **P** button again to confirm and exit time setting mode. The display will return to normal operation.

6.2. Programming ON/OFF Cycles

The timer supports up to 16 ON and 16 OFF programs. Each program can be set for a specific day or group of days.

1. Press the **P** button once to enter program setting mode. The display will show '1 ON' and the time will flash.
2. Press **D+** to select the day(s) for this '1 ON' program. Options include individual days, weekdays, weekends, or all days.
3. Press **H+** to set the desired hour for '1 ON'.
4. Press **M+** to set the desired minute for '1 ON'.
5. Press **P** again. The display will now show '1 OFF' and the time will flash.
6. Repeat steps 3 and 4 to set the day(s), hour, and minute for '1 OFF'.
7. Continue pressing **P** to cycle through '2 ON', '2 OFF', up to '16 ON', '16 OFF', setting each program as needed. If you do not need all 16 programs, simply press **P** to skip unused program slots.
8. After setting all desired programs, press the **P** button until the display returns to the current time. The timer is now programmed.

6.3. Manual Override (MANUAL C/R)

The **MANUAL C/R** button allows you to temporarily override the programmed state without deleting the programs.

- Press **MANUAL C/R** once to cycle through modes: AUTO ON, AUTO OFF, ON, OFF.
- **AUTO ON:** The timer will follow its programs, and the output is currently ON.
- **AUTO OFF:** The timer will follow its programs, and the output is currently OFF.
- **ON:** The output is forced ON, ignoring programs.
- **OFF:** The output is forced OFF, ignoring programs.
- To return to automatic operation, press **MANUAL C/R** until 'AUTO ON' or 'AUTO OFF' is displayed.

6.4. Resetting the Timer

To clear all settings and return the timer to its factory default state, use a pointed object (like a pen tip) to press the recessed **RESET** button. All programmed times and the current time will be erased.

7. MAINTENANCE

The Ymiko THC 15A Digital Timer is designed for low maintenance. The built-in rechargeable battery ensures that your programmed settings are retained for at least 15 days during a power outage. No user-serviceable parts are inside. Keep the device clean and free from dust. Do not expose it to excessive moisture or extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or unresponsive.	No power supply; internal battery discharged; system error.	Check power connections (L and N). If power is present, press the RESET button. Allow time for the internal battery to charge if recently powered on after a long period of no power.

Timer not switching ON/OFF as programmed.	Incorrect program settings; timer in manual override mode; incorrect wiring.	Verify program settings (ON/OFF times, days). Check if the timer is in 'AUTO ON' or 'AUTO OFF' mode using the MANUAL C/R button. Re-check load wiring to terminals '3', '4', '5'.
Time is inaccurate.	Initial time not set correctly; minor drift over time.	Re-set the current time and day as per Section 6.1. The timer has a typical error of $\leq 2\text{S/day}$.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the purchase documentation or contact your seller directly. Keep your proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question