

Baomain THC15A_12V

Baomain THC15A Digital LCD Power Programmable Timer Switch Relay

Model: THC15A_12V

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Baomain THC15A Digital LCD Power Programmable Timer Switch Relay. This device is designed for precise control of electrical circuits based on programmed time schedules.

The THC15A is a weekly programmable electronic timer with a rated control voltage input of 12V DC/AC and a contact capacity of 16A (8A) at 240V AC. It offers a full time range from 1 minute to 168 hours and supports up to 16 ON/OFF programs per week or day. It operates efficiently within a temperature range of -10 to +40 degrees Celsius and has a net weight of 150g.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and servicing should only be performed by qualified personnel. Disconnect power before installation or servicing.

- Always verify the input voltage of the device matches your power supply before connecting. This model operates on 12V DC/AC.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not exceed the maximum contact capacity of 16A (8A) at 240V AC.
- Install the timer in a dry environment, away from moisture and extreme temperatures.
- For optimal safety, consider installing a fuse rated to protect your end device, rather than relying solely on a 16A breaker.

Safety Instruction insert each Package Box
Sicherheitshinweise in jeder Packung
Inserto di sicurezza per ogni confezione



Figure 2.1: Safety instructions are included in each product package. Please review them carefully before use.

3. PRODUCT OVERVIEW

The Baomain THC15A is a compact digital timer designed for DIN rail mounting. It features an LCD display for time and program settings, along with several buttons for configuration.





Figure 3.1: Front view of the THC15A timer, showing the LCD display and terminal connections.

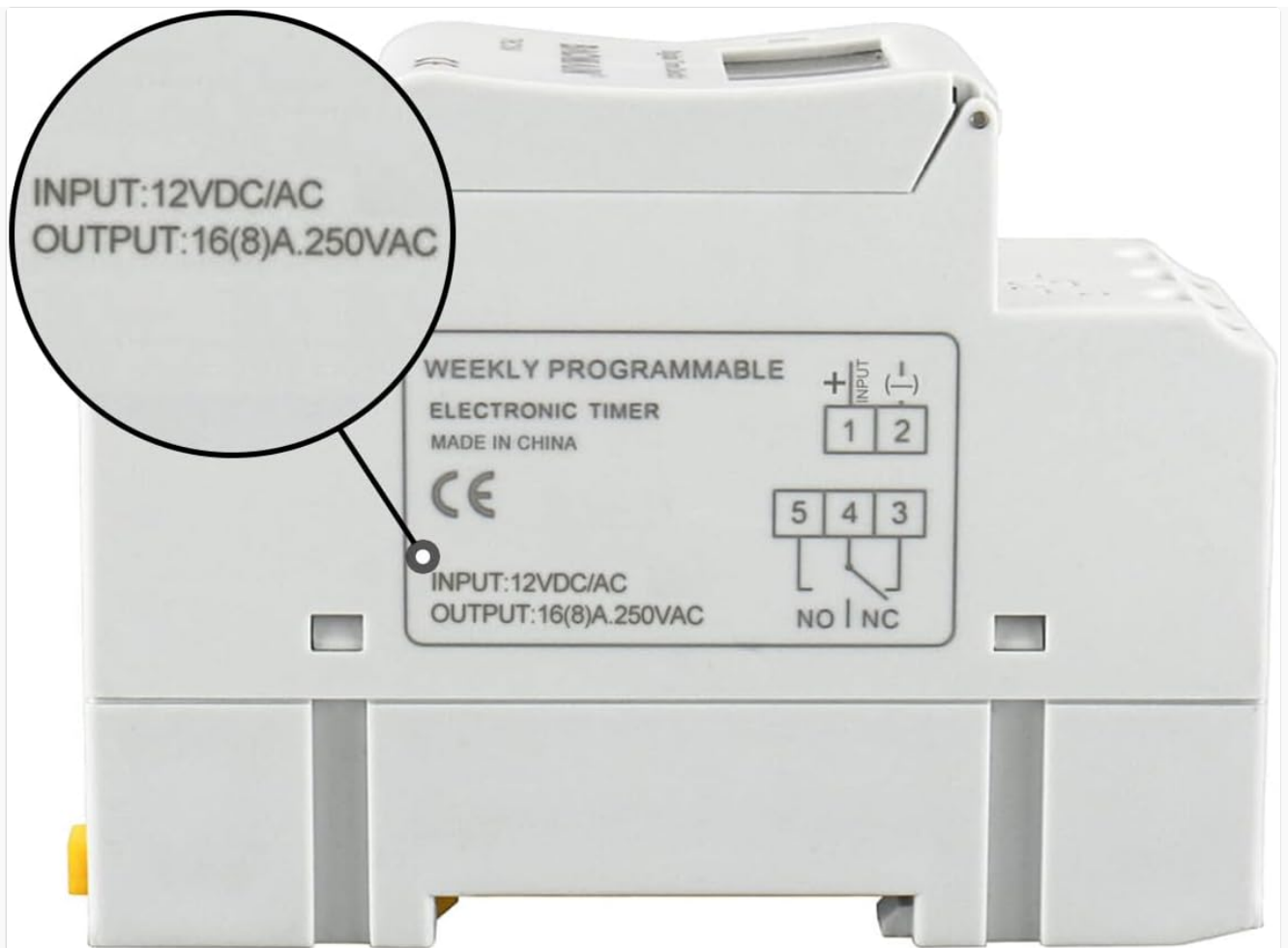


Figure 3.2: Back view of the timer, highlighting the input voltage (12VDC/AC) and output contact capacity (16A(8)A.250VAC).



Figure 3.3: Top view with the protective cover open, showing the programming buttons and LCD display.



Figure 3.4: Bottom view, illustrating the integrated clips for DIN rail mounting.

3.1. Dimensions

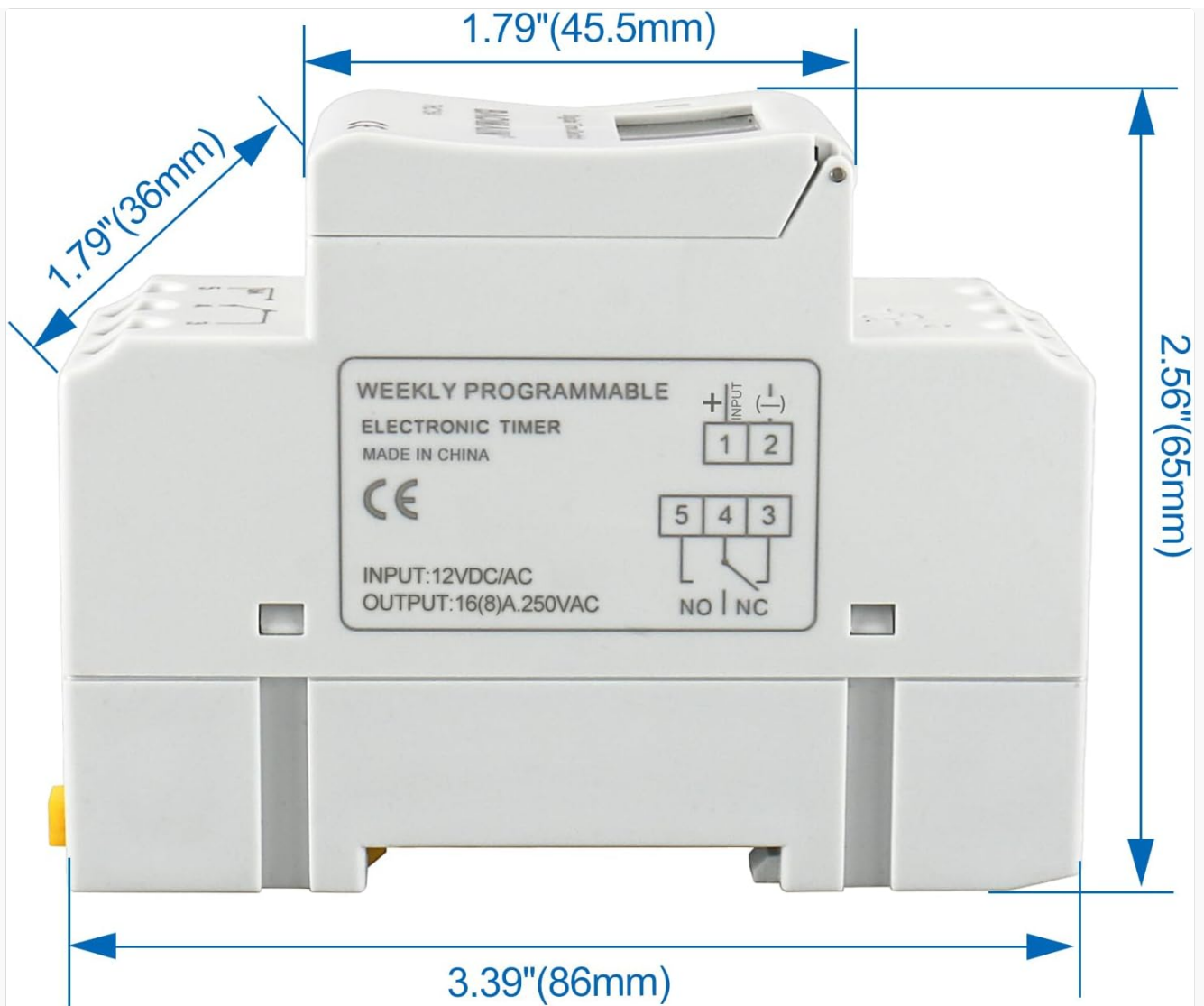


Figure 3.5: Product dimensions: 1.42"D x 3.39"W x 2.56"H (36mm D x 86mm W x 65mm H).

4. SPECIFICATIONS

Feature	Description
Rated Control Voltage Input	12V DC/AC
Contact Capacity	16A(8)A, 240V AC
Full Time Range	1 Minute - 168 Hours
Programmable Settings	Up to 16 ON/OFF times per week or day
Operating Temperature	-10 to +40 °C
Net Weight	150g (4.6 ounces)
Dimensions (D x W x H)	1.42"D x 3.39"W x 2.56"H
Screen Size	3.5 Inches
Color	White

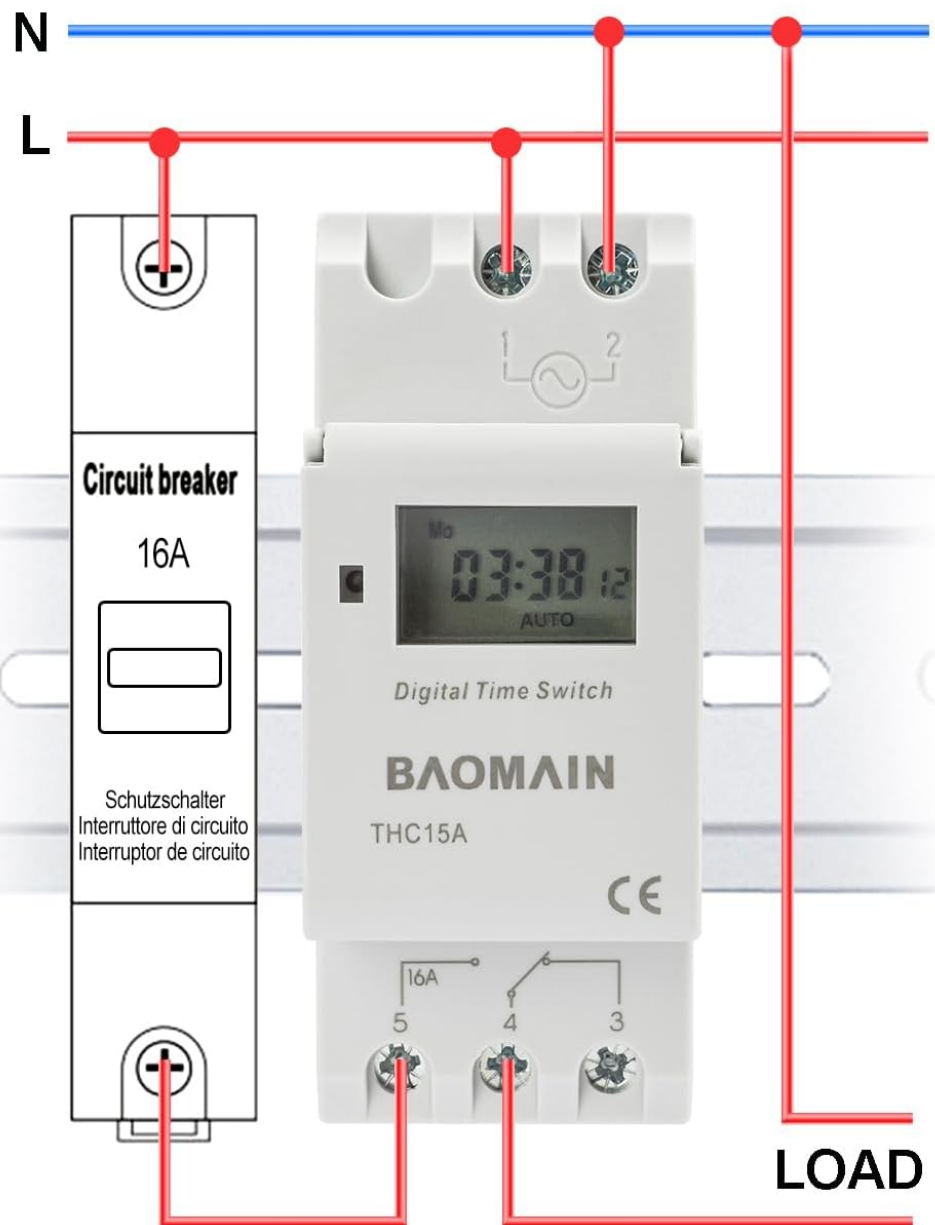
Feature	Description
Battery	1 C battery required (for memory backup)
Manufacturer	Oktimer
UPC	748690710969

5. SETUP AND INSTALLATION

The THC15A timer is designed for easy installation on a standard DIN rail (not included). Follow the wiring diagram carefully to ensure correct and safe operation.

5.1. Wiring Diagram

Wiring Diagram



DIN Rail is not Included
DIN-Schiene ist nicht enthalten
Le rail DIN n'est pas inclus
Carril DIN no incluido

Figure 5.1: Wiring connections for the THC15A timer. Terminals 1 and 2 are for power input (12V DC/AC). Terminals 3, 4, and 5 are for the relay output: 4 is Common, 5 is Normally Open (NO), and 3 is Normally Closed (NC).

Wiring Instructions:

1. Connect your 12V DC/AC power supply to terminals 1 and 2. The timer is not polarity sensitive for 12V DC.
2. Connect the common wire of your load to terminal 4.
3. For Normally Open (NO) operation (load turns ON when timer activates), connect the other wire of your load to terminal 5.
4. For Normally Closed (NC) operation (load turns OFF when timer activates), connect the other wire of your load to terminal 3.
5. Ensure all connections are tight. The screw terminal torque value is approximately 0.8 N.m.

6. OPERATING INSTRUCTIONS AND PROGRAMMING

The THC15A timer allows for precise scheduling with up to 16 ON/OFF programs. Before programming, ensure the current time is set correctly.

6.1. Button Functions





Figure 6.1: Detailed view of the timer's LCD display and control buttons.

- **P (Program) Button:** Enters programming mode to set ON/OFF times.
- **D+ (Day) Button:** Adjusts the day of the week (MO, TU, WE, TH, FR, SA, SU) during time setting or selects day combinations for programs.
- **H+ (Hour) Button:** Adjusts the hour (1-24 hours) during time or program setting.
- **M+ (Minute) Button:** Adjusts the minute (1-60 minutes) during time or program setting.
- **Clock Button ():** Exits programming mode and saves settings. Also used to set the current time.
- **Reset Button:** Resets the timer to its original factory settings. Use a pointed object to press.
- **Manual Button:** Toggles between ON, AUTO, and OFF modes. Pressing it can also cancel previous settings and reset.

6.2. Setting Current Time

1. Press and hold the **Clock ()** button.
2. While holding **Clock ()**, press **D+** to adjust the day of the week.
3. While holding **Clock ()**, press **H+** to adjust the hour.
4. While holding **Clock ()**, press **M+** to adjust the minute.
5. Release the **Clock ()** button to save the current time. The display shows time in 24-hour format (0:00-23:59).

6.3. Programming ON/OFF Times

PROGRAMMING THE TIMER

Start to programming the TIMER

1. Press **TIMER** key. LCD screen shall show **1^{ON}--:--..**
2. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.
3. Press **HOUR**, **MIN** respectively to set desired Hour and Minute for **1^{ON}**
4. After finished setting of **1^{ON}**, press **TIMER** key again, **1^{ON}--:--..** shall appear on LCD screen.
5. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.

Day-combination chosen in each of ON/OFF program-period must be consistent.

6. Repeat Programming procedure "3" to set desired Hour & Minute for **1^{OFF}**
 7. When finished setting **1^{ON}** & **1^{OFF}**, press **TIMER**. **2^{ON}--:--..** shall appear on LCD screen.
 8. Repeat programming procedure above to complete rest of ON/OFF program-period(event).
- 1^{ON}--:--..** ⇒ **1^{OFF}--:--..** ⇒ **2^{ON}--:--..** ••••• **28^{OFF}--:--..**
9. When finished program-setting (event), press **CLOCK**, Timer shall start to execute programs.

Caution

When there are program setting errors, the display will show the following code:

- E1: doesn't set the start time.
- E2: doesn't set the end time.



Figure 6.2: Visual guide for programming the timer's ON/OFF events.

1. Press the **P (Program)** button. The LCD will show "1 ON--:--". This is your first ON program.
2. Press **D+** to select the desired day combination for this program (e.g., Mon-Fri, Sat-Sun, daily, specific days). Continue pressing **D+** to cycle through 15 combinations.
3. Press **H+** and **M+** to set the desired hour and minute for the first ON time.
4. After setting the first ON time, press the **P (Program)** button again. The LCD will show "1 OFF--:--". This is your first OFF program.
5. Repeat steps 2 and 3 to set the desired day combination, hour, and minute for the first OFF time.
6. To set additional ON/OFF programs (up to 16 pairs), repeat steps 1-5. The display will increment to "2 ON", "2 OFF", and so on.
7. Once all desired programs are set, press the **Clock ()** button to exit programming mode and save the settings. The timer will now execute the programs.

Important Note: Day combinations chosen for ON/OFF programs must be consistent. If you do not require all 16 programs, simply press the **Clock ()** button after setting your last program to exit and save.

6.4. Visual Programming Guide

For a visual demonstration of the programming process, please refer to the official product video below:

7. MAINTENANCE

The Baomain THC15A timer requires minimal maintenance. Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents. Ensure the timer is installed in an environment that adheres to the specified operating temperature and humidity ranges to prolong its lifespan.

The internal battery provides memory backup for settings during power outages. If the display is blank or settings are lost frequently after power interruptions, the internal battery may need replacement. Consult a qualified technician for battery replacement.

8. TROUBLESHOOTING

8.1. Error Codes

If there are setting errors during programming, the LCD may display the following codes:

- **E1:** Doesn't set the START time. Ensure you have set an ON time for the program.
- **E2:** Doesn't set the END time. Ensure you have set an OFF time for the program.

8.2. Common Issues

- **Timer not activating/deactivating at programmed times:**
 - Check if the current time is set correctly.
 - Verify that the timer is in AUTO mode (indicated on the LCD). Use the Manual button to cycle modes if necessary.
 - Review your programmed ON/OFF times for accuracy and ensure no conflicting schedules exist.
 - Ensure the day combinations for your programs are correctly set.
- **Display is blank or flickering:**
 - Check the power supply to terminals 1 and 2.
 - If power is present, the internal battery might be low or depleted.
- **Settings are lost after power outage:**
 - The internal battery responsible for memory backup may need replacement.
- **Timer does not respond to button presses:**
 - Try pressing the Reset button using a pointed object to restore factory settings. You will need to reprogram the timer afterward.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact Baomain customer service directly. Typically, warranty details are provided by the seller at the time of purchase.

For technical support or further assistance, please visit the official Baomain website or contact their customer support channels. Keep your product model number (THC15A_12V) and purchase details ready when seeking support.

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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