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> MDWXDOFP MT812L Astronomical Timer User Manual

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Model: MT812L

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the MDWXDOFP MT812L Astronomical Timer. This device is a 1-channel, 7-day programmable digital time switch designed for DIN rail mounting, featuring an LCD display and astronomical timing functions. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Warning: Electrical installation should only be performed by qualified personnel. Incorrect installation can lead to electric shock, fire, or damage to the device.

- Always disconnect power before installing or servicing the timer.
- Ensure the voltage and current ratings of the timer match your application (AC220-240V, 16A).
- Do not expose the device to moisture or extreme temperatures.
- Keep out of reach of children.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.

3. PRODUCT OVERVIEW

The MT812L is a versatile digital timer designed for precise control of electrical loads. Its key features include a clear LCD display, intuitive button controls, and DIN rail compatibility for easy integration into electrical panels.





Figure 3.1: Front view of the MT812L timer. This image displays the LCD screen with "Auto", "OFF", and time "9:25" visible, along with the "Menu", "Res", "+", and "ok" buttons below. The terminals are visible at the top and bottom.

3.1. Components

- **LCD Display:** Shows current time, day, operating mode, and programming settings.
- **Menu Button:** Accesses programming modes and navigates through options.
- **Res (Reset) Button:** Resets the device or clears current settings.
- **'+' Button:** Increases values or moves forward in settings.
- **'ok' Button:** Confirms selections or exits programming modes.
- **Terminals (1, 2, 3, 4, 5):** For power input and load connection.

4. SETUP

4.1. DIN Rail Mounting

The MT812L timer is designed for standard 35mm DIN rail mounting. Ensure the DIN rail is securely installed within an electrical enclosure.

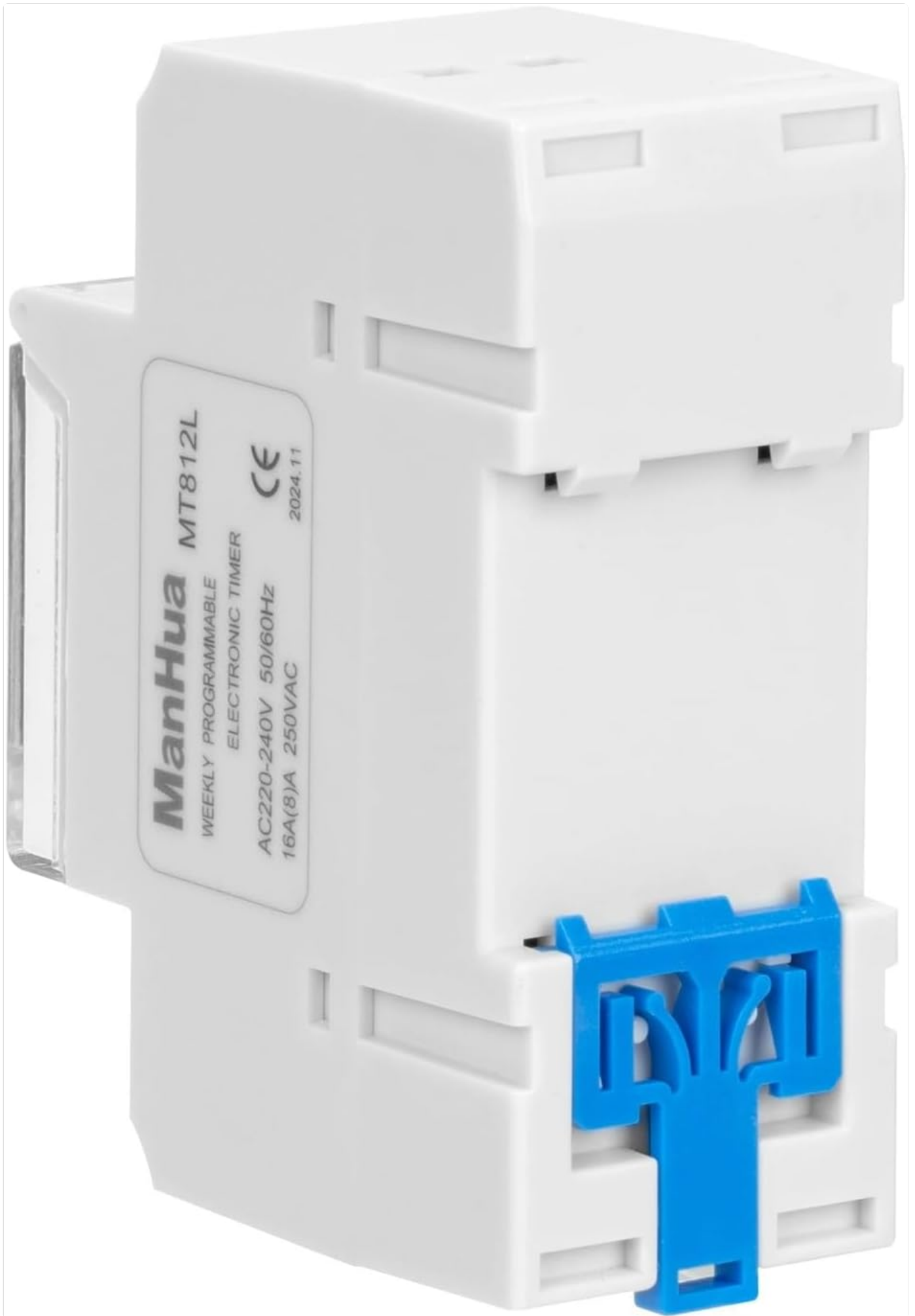


Figure 4.1: Side view of the MT812L timer, highlighting the blue DIN rail mounting clip at the bottom. This clip allows the timer to be securely attached to a standard

DIN rail.

1. Hook the top edge of the timer onto the DIN rail.
2. Press the bottom of the timer firmly until the blue clip engages with the DIN rail.
3. Ensure the timer is securely fastened and does not wobble.

4.2. Wiring Connections

Refer to the wiring diagram printed on the side of the timer and the following instructions. Always ensure power is disconnected before making any connections.



Figure 4.2: Angled view of the MT812L timer, showing the input terminals (1, 2) at the top and output terminals (3, 4, 5) at the bottom. The wiring diagram is also visible on the side label.

- **Terminals 1 & 2:** Power Supply Input (AC220-240V). Connect Live (L) to terminal 1 and Neutral (N) to terminal 2.
- **Terminals 3, 4, 5:** Load Output. These are potential-free contacts.
 - Terminal 3: Common (COM)
 - Terminal 4: Normally Closed (NC)
 - Terminal 5: Normally Open (NO)

Connect your load to COM (3) and either NO (5) for switching ON when the timer is active, or NC (4) for switching OFF when the timer is active.

4.3. Initial Power-Up and Time Setting

After wiring, restore power. The LCD display should illuminate. If the display is blank, check power connections. The timer may require an initial charge if it has been stored for a long time.

1. Press the **Res** button to clear any previous settings and initialize the timer.
2. The display will show the current time and day. If incorrect, press the **Menu** button repeatedly until the time setting mode is displayed (e.g., flashing hour).
3. Use the '+' button to adjust the hour, minute, and day.
4. Press **ok** to confirm each setting and move to the next.
5. Once all settings are correct, press **Menu** to exit the setting mode.

5. OPERATING INSTRUCTIONS

5.1. Programming ON/OFF Times

The MT812L allows for multiple ON/OFF programs over a 7-day cycle. The exact number of programs is typically indicated in the timer's specifications or on the device itself.

1. Press the **Menu** button once to enter program setting mode. The display will show "1 ON" (Program 1 ON time).
2. Use the '+' button to set the desired hour and minute for the first ON event. Press **ok** to confirm.
3. Next, set the day(s) for this program. You can select individual days, weekdays, weekends, or all 7 days. Press **ok** to confirm.
4. The display will then show "1 OFF" (Program 1 OFF time). Repeat steps 2 and 3 to set the OFF time and day(s).
5. Continue pressing **Menu** to cycle through "2 ON", "2 OFF", and so on, setting all desired programs.
6. After setting all programs, press **Menu** until the display returns to the current time. The timer is now programmed.

5.2. Astronomical Function

The astronomical function automatically adjusts ON/OFF times based on sunrise and sunset, calculated from your geographical location. This feature is ideal for lighting control.

- To activate or adjust astronomical settings, navigate through the **Menu** options until you find "ASTRO" or similar.
- You may need to input your geographical coordinates (latitude/longitude) or select a region. Refer to the on-screen prompts.
- Confirm settings with the **ok** button.

Note: Specific steps for astronomical settings may vary slightly. Consult the on-screen menu for precise navigation.

5.3. Manual Override

To temporarily override the programmed schedule, press the **ok** button while in normal operating mode. This will cycle through different modes:

- **AUTO ON:** The timer will remain ON until the next programmed OFF time.
- **AUTO OFF:** The timer will remain OFF until the next programmed ON time.
- **ON:** The timer output is continuously ON.
- **OFF:** The timer output is continuously OFF.

Press **ok** again to return to the desired mode or to "AUTO" for normal operation.

6. MAINTENANCE

The MT812L timer requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Wipe the exterior of the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.
- **Battery:** The timer contains an internal battery to retain settings during power outages. This battery is typically non-replaceable by the user and has a long lifespan. If the display is consistently blank after power loss, the internal battery may need professional servicing.
- **Environmental Conditions:** Ensure the timer is operated within its specified temperature and humidity ranges to prevent damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank.	No power supply; Internal battery discharged.	Check wiring connections (Terminals 1 & 2). Ensure power is supplied. Allow timer to charge for several hours if recently installed.
Timer not switching load.	Incorrect wiring; Program error; Manual override active.	Verify load wiring (Terminals 3, 4, 5). Check programmed ON/OFF times. Ensure timer is in "AUTO" mode (not manual ON/OFF).
Time/Date is incorrect.	Not set correctly; Internal battery low.	Re-set the current time and day as per Section 4.3. If issue persists after power cycling, internal battery may be failing.
Astronomical function not working.	Location not set; Function not activated.	Ensure geographical coordinates or region are correctly set in the astronomical settings menu. Verify the function is enabled.

8. SPECIFICATIONS

Parameter	Value
Model	MT812L
Brand	MDWXDOFP
Power Supply	AC220-240V, 50/60Hz
Contact Capacity	16A (8A) 250VAC
Channels	1-Channel
Programming Cycle	7 Days (Weekly)
Mounting	DIN Rail
Display	LCD Digital
Product Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	1.76 ounces (50 Grams)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. For technical support or further assistance, please reach out to the manufacturer, MDWXDOFP, through their official channels or the seller from whom you purchased the product.

Please retain this manual for future reference.