

## RWRAPS TM618SH

# RWRAPS TM618SH Digital LCD Timer Switch User Manual

Model: TM618SH

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your RWRAPS TM618SH Digital LCD Timer Switch. This device is designed for precise control of electrical equipment, offering programmable on/off cycles over a 7-day period with 1-second interval accuracy and a countdown function. Please read this manual thoroughly before use to ensure proper functionality and safety.

## PRODUCT OVERVIEW

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### Key Features

- High accuracy with time error less than 1 second per day.
- Supports up to 16 ON/OFF program settings per day or week.
- Integrated clock correction and calibration function.
- Keyboard lock feature to prevent accidental operations.
- Equipped with long-life silicone buttons for durability.
- High-power relay output for reliable switching.
- Automatic switching of electrical equipment based on programmed times.
- Built-in battery for memory retention during power failures (up to 60 days).
- Countdown function available.

### Components and Display

The RWRAPS TM618SH features an LCD display and several control buttons for programming and manual operation.



**Figure 1:** Front view of the RWRAPS TM618SH Digital LCD Timer Switch, showing the display and control buttons (WEEK, HOUR, MIN, SEC, CLOCK, PROG, MANUAL, R).



**Figure 2:** Angled view of the timer switch, highlighting its compact design suitable for panel mounting.



**Figure 3:** Another angled perspective of the timer switch, showing the side profile and mounting tabs.



Figure 4: Top-down angled view, providing a clear look at the display and button layout.

## SPECIFICATIONS

Parameter	Value
Model	TM618SH
Temperature Range	-20°C to +50°C
Power Supply Options	5V, 12V, 24V, 110V, 220V AC/DC (depending on variant)
Power Consumption	4.5 VA (MAX)
Display	LCD
Switching Contact	1 change over switch (1NO)
Programs	8 ON/OFF settings per day or week (up to 16 total)
Hysteresis	2 sec/day (at 25°C)

Parameter	Value
Minimum Interval	1 Second
Capacity	16A 250V AC / 20A @30 VDC
Black-out Memory	60 days (via built-in 1.2V rechargeable battery)
Timer Range	1 minute to 168 hours
Average Error	±1 second / 24 hours (at 25°C)
Item Weight	0.08 kg (approx. 2.8 oz)
Material	Silicone (buttons)

## SETUP

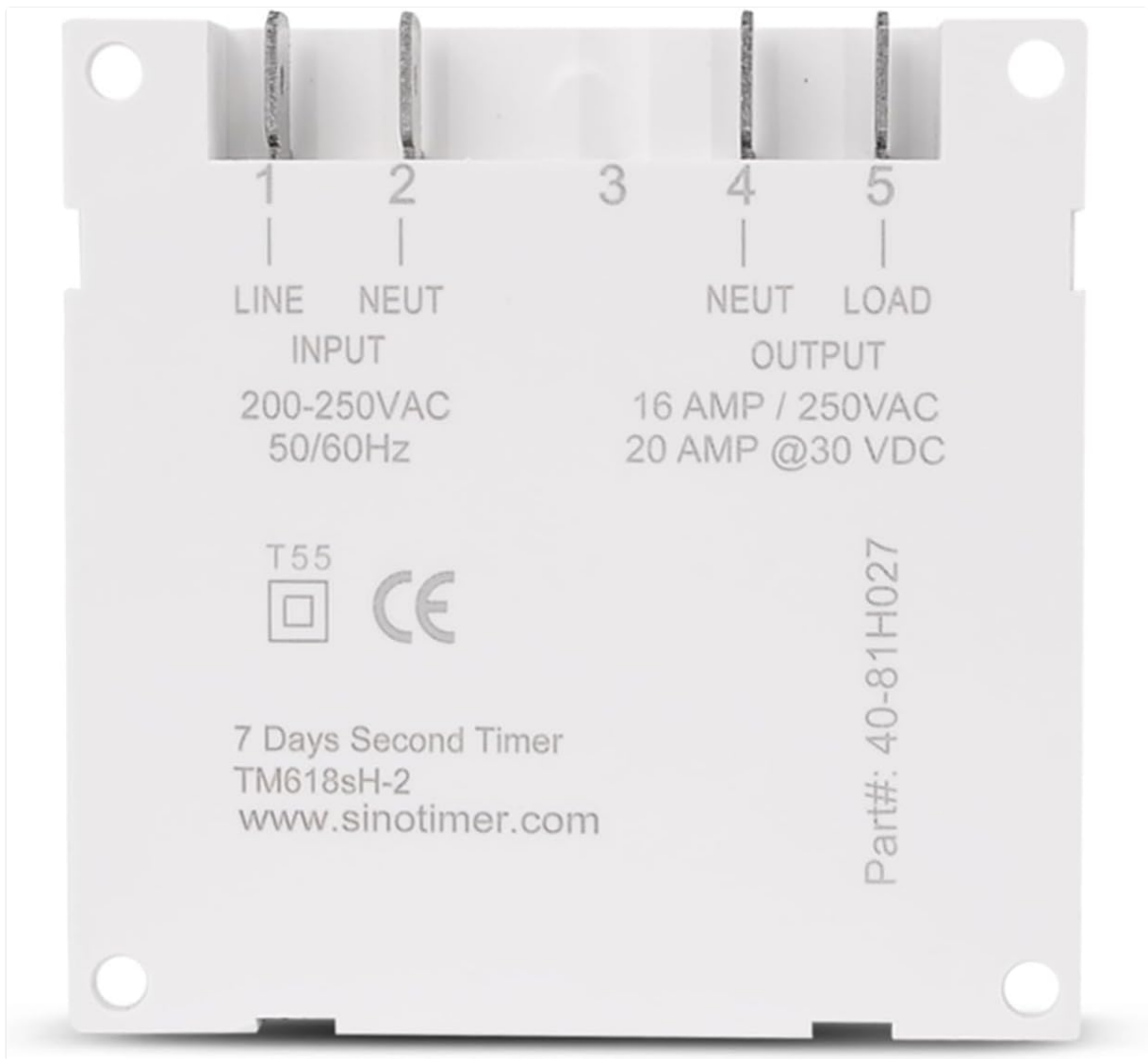
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### Installation

The TM618SH timer switch is designed for panel mounting. Ensure the installation location is dry, well-ventilated, and free from excessive vibrations or extreme temperatures. Secure the timer using the integrated mounting tabs.

### Wiring Diagram

**WARNING:** Electrical installation should only be performed by qualified personnel. Ensure power is disconnected before attempting any wiring to prevent electric shock.



**Figure 5:** Wiring diagram for the TM618SH timer switch. Terminals 1 and 2 are for input power (LINE and NEUT). Terminals 4 and 5 are for output to the load (NEUT and LOAD). Terminal 3 is not used for this model.

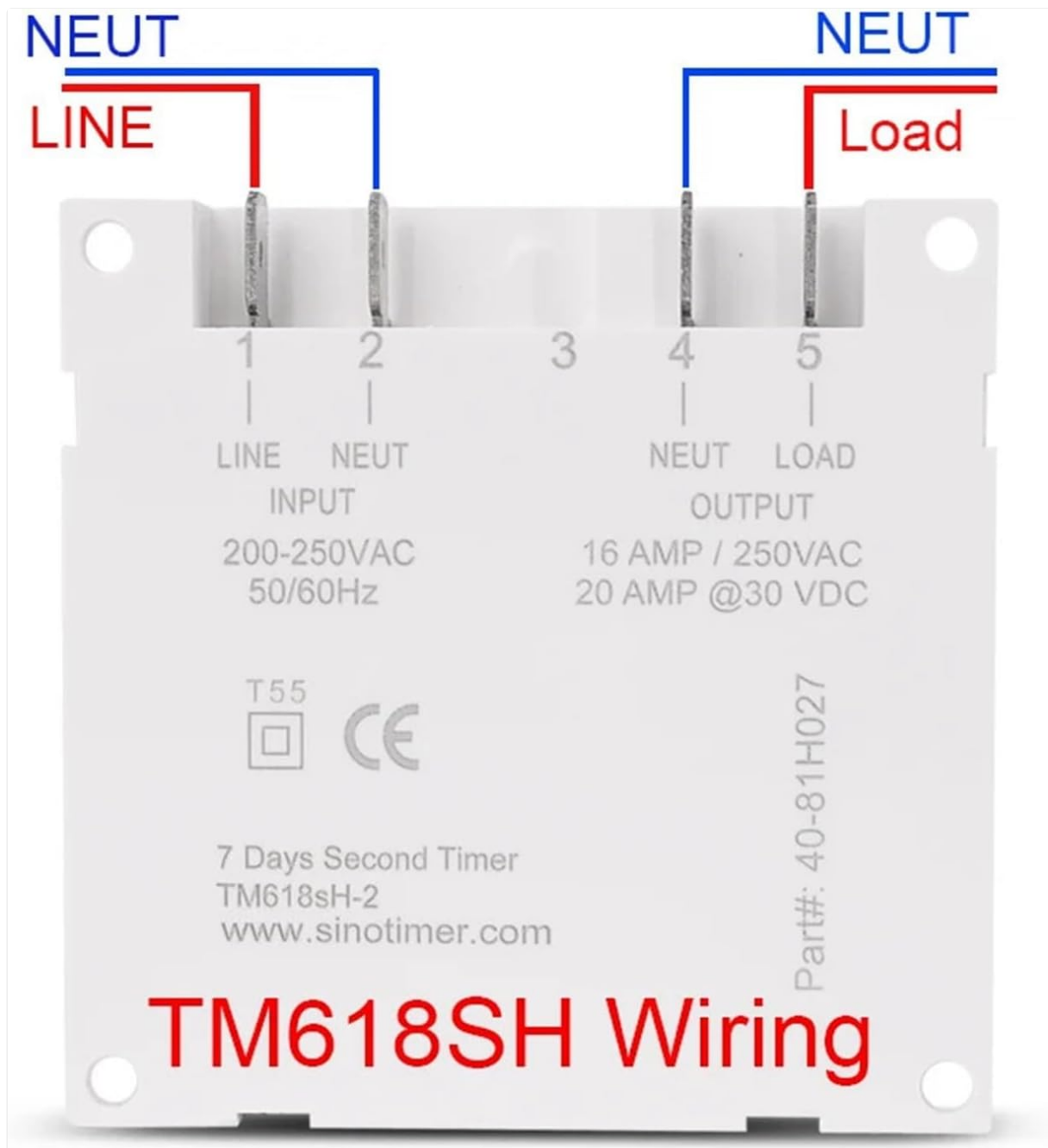


Figure 6: Back view of the timer switch, illustrating the input and output terminals for electrical connections.

1. Identify the correct voltage variant of your TM618SH (5V, 12V, 24V, 110V, or 220V).
2. Connect the live wire (LINE) of your power supply to terminal 1.
3. Connect the neutral wire (NEUT) of your power supply to terminal 2.
4. Connect the neutral wire of your load to terminal 4.
5. Connect the live wire of your load to terminal 5.
6. Ensure all connections are secure and properly insulated.

## OPERATING INSTRUCTIONS

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### Initial Setup and Reset

Upon first use or after a prolonged power outage, the display may be blank. Connect the timer to power. If the display remains blank or shows erratic characters, press the 'R' (Reset) button with a pointed object (e.g., a pen tip) to clear all settings and reset the timer.

## Setting Current Time

1. Press the **CLOCK** button. The display will show the current time.
2. While holding the **CLOCK** button, press **WEEK** to set the current day of the week.
3. While holding the **CLOCK** button, press **HOURL** to set the current hour.
4. While holding the **CLOCK** button, press **MIN** to set the current minute.
5. Release the **CLOCK** button. The time is now set.

## Programming ON/OFF Cycles

The TM618SH allows for up to 16 ON/OFF program settings. Each program consists of an ON time and an OFF time.

1. Press the **PROG** button once. The display will show "1 ON". This is the first ON program.
2. Press **WEEK** to select the desired day(s) for this program. Options include individual days, weekdays, weekends, or all days.
3. Press **HOURL** to set the ON hour.
4. Press **MIN** to set the ON minute.
5. Press **PROG** again. The display will show "1 OFF". This is the first OFF program.
6. Repeat steps 2-4 to set the OFF time for the first program.
7. Continue pressing **PROG** to cycle through "2 ON", "2 OFF", up to "16 ON", "16 OFF", setting each as needed. If you do not need all 16 programs, simply press **CLOCK** to exit programming mode.
8. To clear a specific program, press **PROG** until you reach the desired program, then press **MANUAL**. The display will show "--:--", indicating the program is cleared.
9. After setting all desired programs, press **CLOCK** to return to the current time display.

## Manual Control

The **MANUAL** button allows you to override the programmed settings temporarily or permanently.

- Press **MANUAL** repeatedly to cycle through the modes: **ON AUTO**, **OFF AUTO**, and **AUTO**.
- **ON AUTO**: The timer is currently ON and will follow the next programmed OFF event.
- **OFF AUTO**: The timer is currently OFF and will follow the next programmed ON event.
- **AUTO**: The timer operates strictly according to the programmed ON/OFF cycles. This is the standard operating mode.

## Countdown Function

The TM618SH includes a countdown feature for temporary switching.

1. From the main time display, press **SEC** to enter countdown mode.
2. Use **HOURL**, **MIN**, and **SEC** buttons to set the desired countdown duration.
3. Press **PROG** to start the countdown. The output will switch state (ON if currently OFF, OFF if currently ON) for the duration of the countdown.
4. To cancel the countdown, press **SEC** again.

## MAINTENANCE

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The RWRAPS TM618SH timer switch 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 operating environment remains within the specified temperature and humidity ranges.

The internal rechargeable battery maintains settings during power outages. If the timer is stored for extended periods without power, the battery may discharge, requiring a full reset and time setting upon reconnection.

## TROUBLESHOOTING

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- **Display is blank or erratic:**

Ensure the timer is connected to the correct power supply voltage. Press the 'R' (Reset) button with a pointed object to reset the device. If the issue persists, the internal battery may be fully discharged; allow it to charge for a few hours while connected to power.

- **Timer does not switch ON/OFF as programmed:**

Check if the current time and day are set correctly. Verify that the programs are entered accurately (ON and OFF times for each program). Ensure the timer is in **AUTO** mode (press **MANUAL** repeatedly until **AUTO** is displayed). Check wiring connections for proper contact.

- **Output is always ON or always OFF:**

This indicates the timer might be in **ON AUTO** or **OFF AUTO** manual override mode. Press **MANUAL** until **AUTO** is displayed to resume programmed operation.

- **Buttons are unresponsive:**

The keyboard lock feature might be active. To unlock, press and hold the **CLOCK** button for approximately 5 seconds until the lock icon disappears from the display. If still unresponsive, try a full reset using the 'R' button.

## WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.