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› [Walfront TM919BK Digital Programmable Timer Switch User Manual](#)

Walfront TM919BK

Walfront TM919BK Digital Programmable Timer Switch User Manual

Model: TM919BK | Brand: Walfront

1. INTRODUCTION

The Walfront TM919BK is a versatile digital programmable timer switch designed for automated control of electrical devices. It offers precise 24-hour and 7-day programming capabilities, an intuitive LCD display, and up to 16 ON/OFF settings per day. This device is ideal for managing various electrical loads, including lighting systems, heating elements, ventilation fans, and other appliances, enhancing energy efficiency and operational convenience.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and servicing of this device must only be performed by qualified electrical personnel. Always disconnect power at the main circuit breaker before attempting any installation, wiring, or maintenance procedures.

- Ensure all wiring complies with local and national electrical codes.
- Do not exceed the maximum load rating of 30A or 5000W to prevent damage to the device and connected equipment.
- This device is designed for indoor use in dry environments. Avoid exposure to moisture or extreme temperatures.

3. PRODUCT OVERVIEW

Key Features:

- **24 Hours/7 Days Programmable:** Offers flexible scheduling options for daily and weekly cycles.
- **16 ON/OFF Settings:** Allows for up to 16 distinct ON and OFF events per day.
- **LCD Display with LED Indicators:** Provides clear visibility of time, program status, and operational mode.
- **Countdown Function:** Enables timed operations for specific durations.
- **35mm DIN Rail Mounted:** Designed for easy integration into standard electrical panels.
- **Battery Back-Up Memory:** Retains programmed settings during power outages.

Components:



Figure 1: Front View of the Timer Switch. This image displays the front panel of the Walfront TM919BK timer switch, showing the LCD screen, programming buttons (P, D+, H+, M+, Reset, Manual), and terminal connections for power input and load output.



Figure 2: Angled View with Protective Cover Open. This image shows the timer switch from an angled perspective with its transparent protective cover lifted, providing access to the programming buttons and illustrating the compact design.

4. SPECIFICATIONS

Parameter	Value
Item Type	Timer Switches
Material	Plastic
Functions	Clock display (12hr/24hr format), Timer, Countdown
Power Supply	AC 85-265V

Capacity	30A 5000W
Timing Range	1 minute to 168 hours
Programs	16 ON/OFF per day
Power Consumption	<5VA
Average Error	<2 seconds/day
Temperature Range	-10°C to 50°C
Humidity	<95%
Package List	1 x Timer Switch, 1 x User Manual

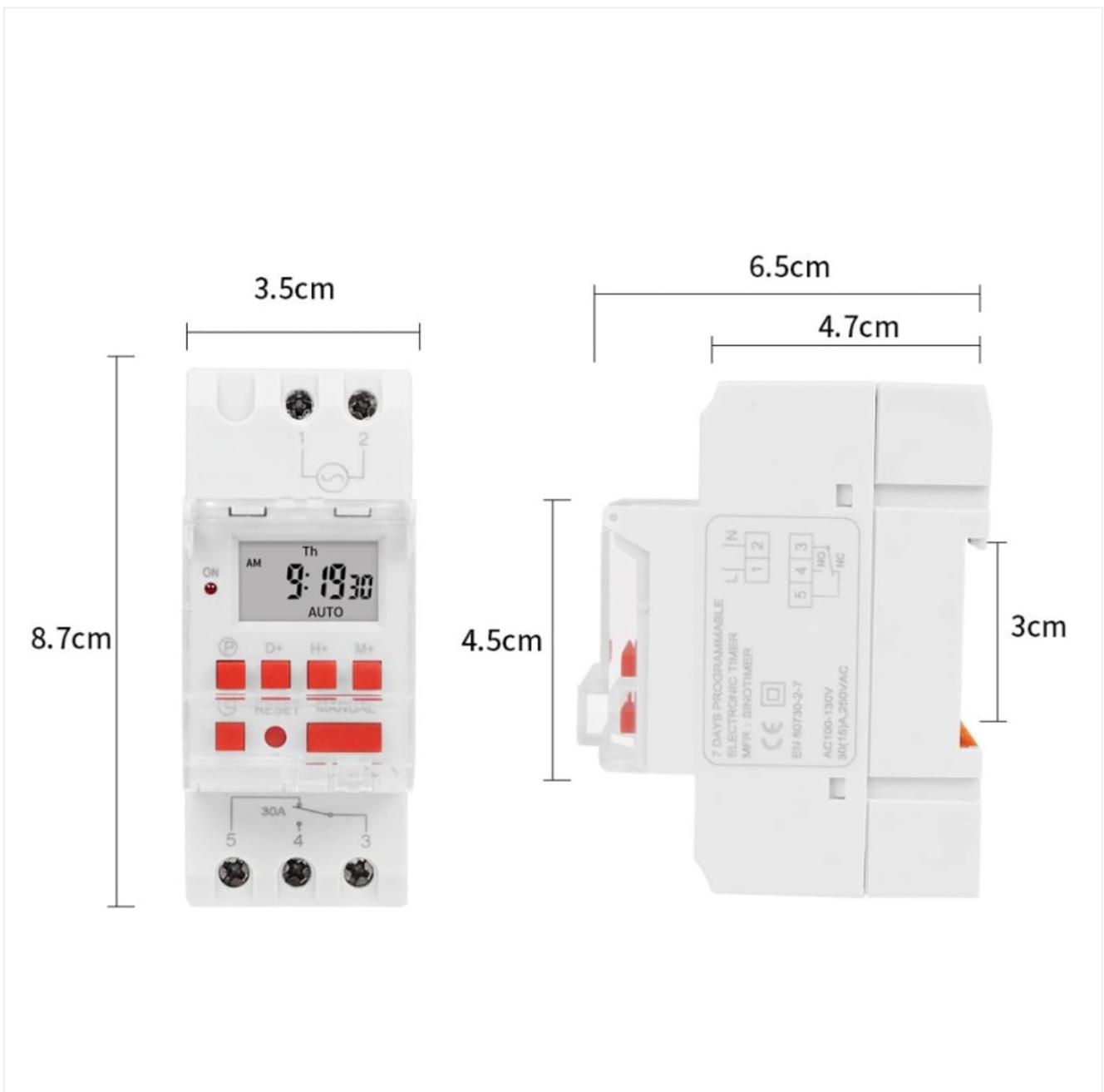


Figure 3: Product Dimensions. This diagram illustrates the physical dimensions of the Walfront TM919BK timer switch, including height, width, and depth, crucial for installation planning.

5. INSTALLATION

The Walfront TM919BK timer switch is designed for 35mm DIN rail mounting. Follow these steps for physical installation:

1. Ensure the main power supply is disconnected before mounting the device.
2. Locate an appropriate 35mm DIN rail within your electrical panel.
3. Align the timer switch's DIN rail clip with the rail and press firmly until it clicks into place.
4. Verify that the device is securely fastened to the DIN rail.



Figure 4: Side View with DIN Rail Clip. This image highlights the side profile of the timer switch, showing the integrated clip mechanism for secure attachment to a 35mm DIN rail.

6. WIRING DIAGRAM

Proper wiring is critical for safe and correct operation. Refer to the diagrams below for connection instructions. Always ensure power is off before wiring.

General Wiring Diagram:

General Wiring Diagram

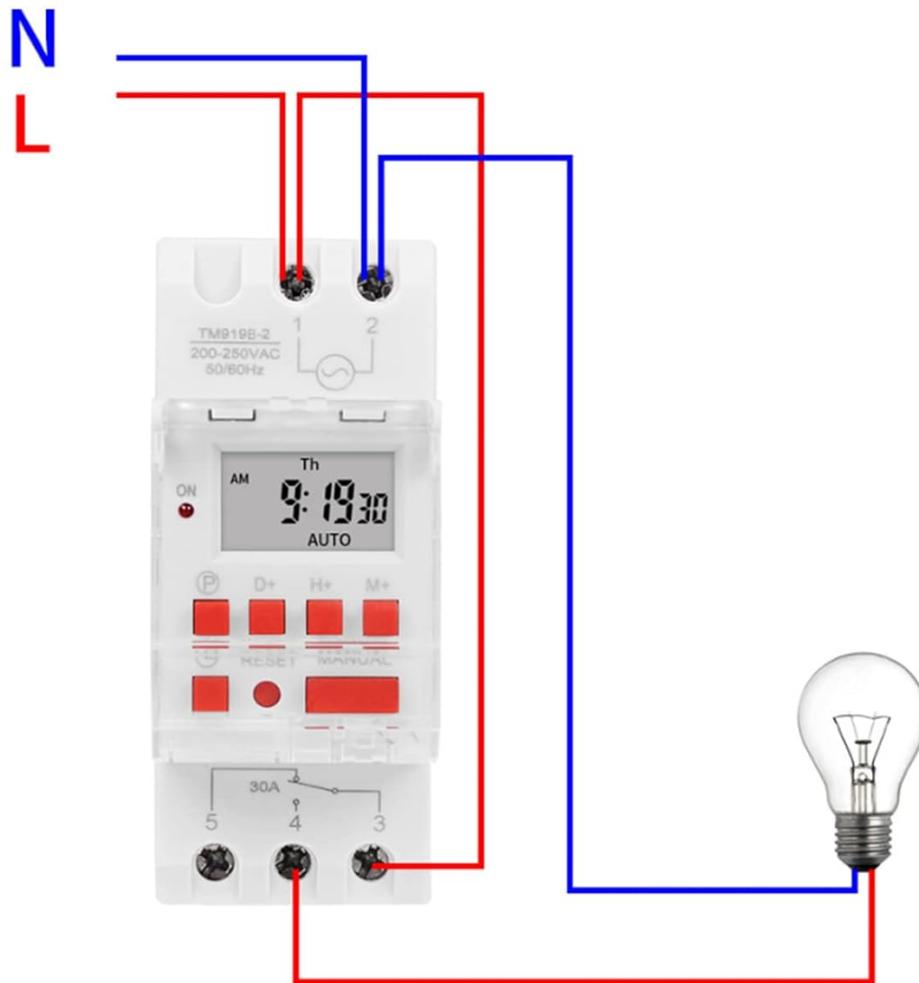


Figure 5: General Wiring Diagram. This diagram illustrates the basic electrical connections for the timer switch, showing how to connect the neutral (N) and live (L) input, and the switched output to a load (e.g., a light bulb).

Wiring with an AC Contactor (for high current loads):

For loads exceeding the timer's direct switching capacity (30A), an external AC contactor must be used. The timer switch will then control the coil of the contactor, which in turn switches the high-current load.

Use with AC Contactor

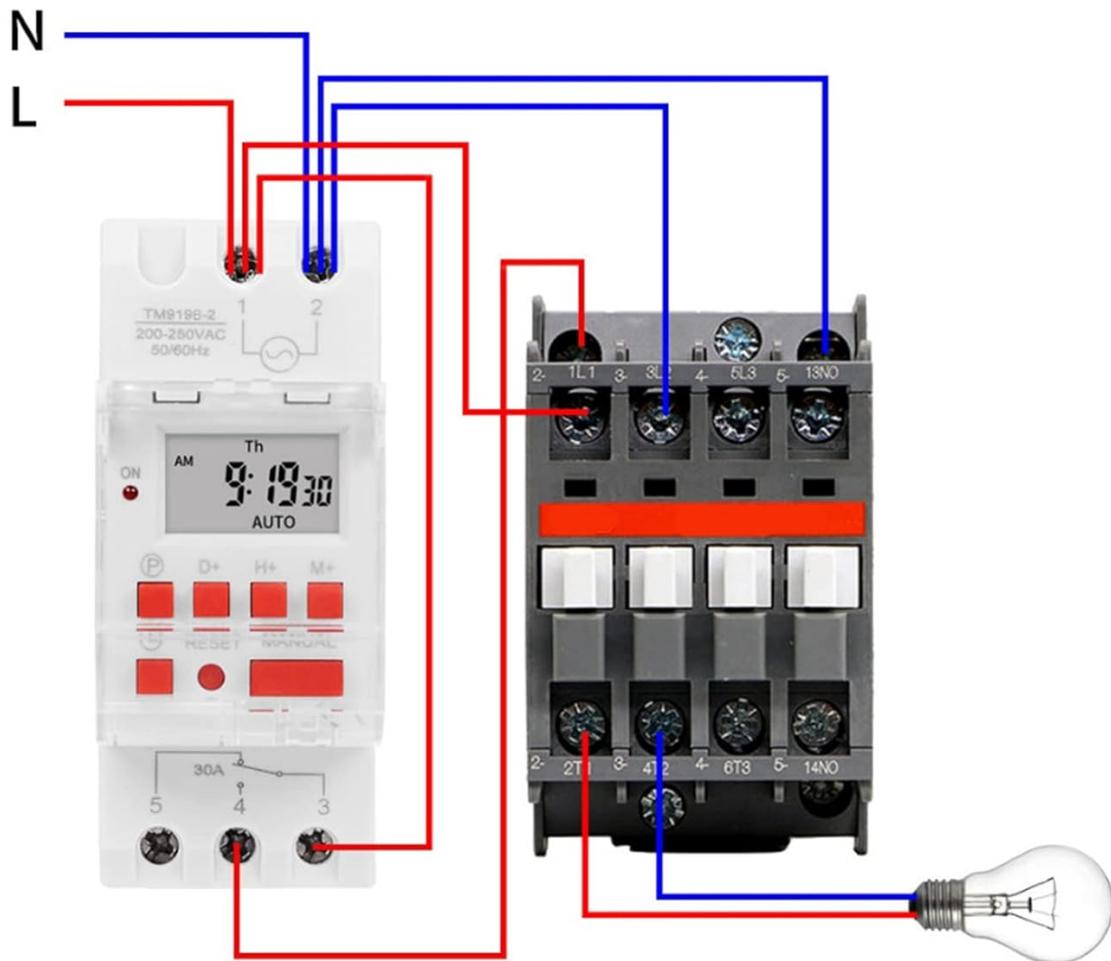


Figure 6: Wiring with AC Contactor. This diagram shows the connection scheme when using the timer switch to control an AC contactor, which is necessary for managing higher current loads safely.

7. INITIAL SETUP

Upon first use or after a prolonged power outage, the timer may require initial setup. The internal battery backup helps retain settings, but the clock may need adjustment.

1. **Power On:** Connect the timer to power. The LCD will illuminate.
2. **Reset:** Press the **RESET** button (often recessed, may require a pointed object like a pen tip) to clear all previous settings and reset the clock.
3. **Set Current Time:**
 - Press the **P** button once. The display will show the current day.
 - Press **D+** to select the correct day of the week.
 - Press **H+** to set the current hour.
 - Press **M+** to set the current minute.
 - Press the **P** button again to exit time setting mode.

4. **12/24 Hour Format:** To switch between 12-hour and 24-hour format, press and hold the **H+** button for approximately 5 seconds.

8. PROGRAMMING OPERATIONS

The TM919BK allows for up to 16 ON/OFF programs. Each program can be set for specific days of the week or combinations of days.

Setting ON/OFF Programs:

1. Press the **P** button repeatedly until '1 ON' appears on the display. This is your first ON program.
2. Press **D+** to select the desired day(s) for this program. Options include individual days, weekdays, weekends, or all 7 days.
3. Press **H+** to set the hour for '1 ON'.
4. Press **M+** to set the minute for '1 ON'.
5. Press **P** again. '1 OFF' will appear. Repeat steps 2-4 to set the OFF time for the first program.
6. Continue pressing **P** to cycle through '2 ON', '2 OFF', up to '16 ON', '16 OFF', setting each program as needed.
7. After setting all desired programs, press the **P** button until the current time is displayed. The timer is now in operating mode.

Countdown Function:

The countdown function allows for a single timed event up to 24 hours.

1. From the main time display, press and hold the **M+** button for approximately 5 seconds. 'COUNTDOWN' will appear.
2. Use **H+** and **M+** to set the desired countdown duration (hours and minutes).
3. Press **P** to start the countdown. The output will switch ON (or OFF, depending on the current state) for the set duration.
4. To cancel the countdown, press **P** again.

9. MANUAL OVERRIDE

The **MANUAL** button allows you to temporarily override the programmed settings without deleting them. This button cycles through three modes:

- **ON:** The output is continuously ON, ignoring programs.
- **AUTO:** The timer operates according to the programmed ON/OFF settings. This is the standard operating mode.
- **OFF:** The output is continuously OFF, ignoring programs.

To return to programmed operation, ensure the display shows 'AUTO'. If the timer is not in 'AUTO' mode, it will not execute your programmed schedules.

10. MAINTENANCE

Battery Backup:

The TM919BK includes a built-in battery to maintain time and program settings during power interruptions. The battery is designed for long-term use and typically does not require user replacement. If the display becomes dim or settings are frequently lost during power outages, the internal battery may be depleted. Contact customer support for assistance.

Cleaning:

To clean the timer switch, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or allow liquids to enter the device.

11. TROUBLESHOOTING

- **Timer not turning ON/OFF as programmed:**

- Check if the timer is in 'AUTO' mode. If it displays 'ON' or 'OFF', press the **MANUAL** button until 'AUTO' appears.
- Verify that the current time and day are set correctly.
- Review your programmed ON/OFF settings for accuracy, ensuring no conflicts or overlaps.
- Ensure the load is properly connected and within the device's capacity.

- **Display is blank or dim:**

- Check the main power supply to the timer.
- If power is present, the internal battery may be low or depleted.

- **Settings are lost after power outage:**

- The internal battery backup may be depleted. This is usually a sign of the battery reaching its end of life.

- **Difficulty programming:**

- Perform a full reset using the **RESET** button and re-enter all settings carefully.
- Refer to the 'Programming Operations' section and follow each step precisely.

12. WARRANTY AND SUPPORT

Walfront products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your purchase or contact your retailer. If you encounter any issues or require technical assistance, please contact Walfront customer support through the vendor's website or your purchase platform. Please have your product model number (TM919BK) and purchase information ready when contacting support.

Related Documents - TM919BK

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