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## DEWENWILS 2HP 40A 120-277 VAC 7-Day Programmable Timer Switch

# DEWENWILS Outdoor Digital Programmable Timer User Manual

Model: 2HP 40A 120-277 VAC 7-Day Programmable Timer Switch

## 1. Introduction

The DEWENWILS Outdoor Digital Programmable Timer is designed for heavy-duty applications, offering precise control over various electrical appliances such as pool pumps, water heaters, spas, and motors. This timer features a 7-day programmable schedule with up to 20 ON/OFF settings, providing flexibility and energy efficiency for both indoor and outdoor use. Its robust, weatherproof design ensures reliable operation in diverse environmental conditions.




*Image: The DEWENWILS timer installed outdoors, demonstrating its application with a pool pump system. This timer is suitable for controlling various high-power outdoor appliances.*

## 2. Safety Information

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Risk of Electric Shock:** More than one disconnect switch may be required to de-energize the device before servicing. Always ensure power is OFF at the circuit breaker before installation or maintenance.
- For supply connections, use 8 AWG wires suitable for at least 80°C.
- Use Copper Conductors Only.
- Always close the door after use to maintain weatherproof integrity.
- Do not immerse the timer in water. It is designed to be weatherproof, not submersible.
- Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.




*Image: The internal label of the timer displays critical electrical ratings and safety warnings, including the UL listing.*

## 3. Setup and Installation

The DEWENWILS timer is designed for straightforward installation. Ensure all safety precautions are followed before beginning.

### 3.1 Mounting the Timer

1. Choose a suitable location for mounting, ensuring it is accessible for programming and wiring, and protected from direct heavy rain or excessive sunlight if possible, despite its weatherproof design.
2. Use appropriate screws and anchors to securely mount the timer to a wall or sturdy surface.

### 3.2 Wiring Instructions

Wiring should only be performed by a qualified electrician. Refer to the internal wiring diagram and local electrical codes.

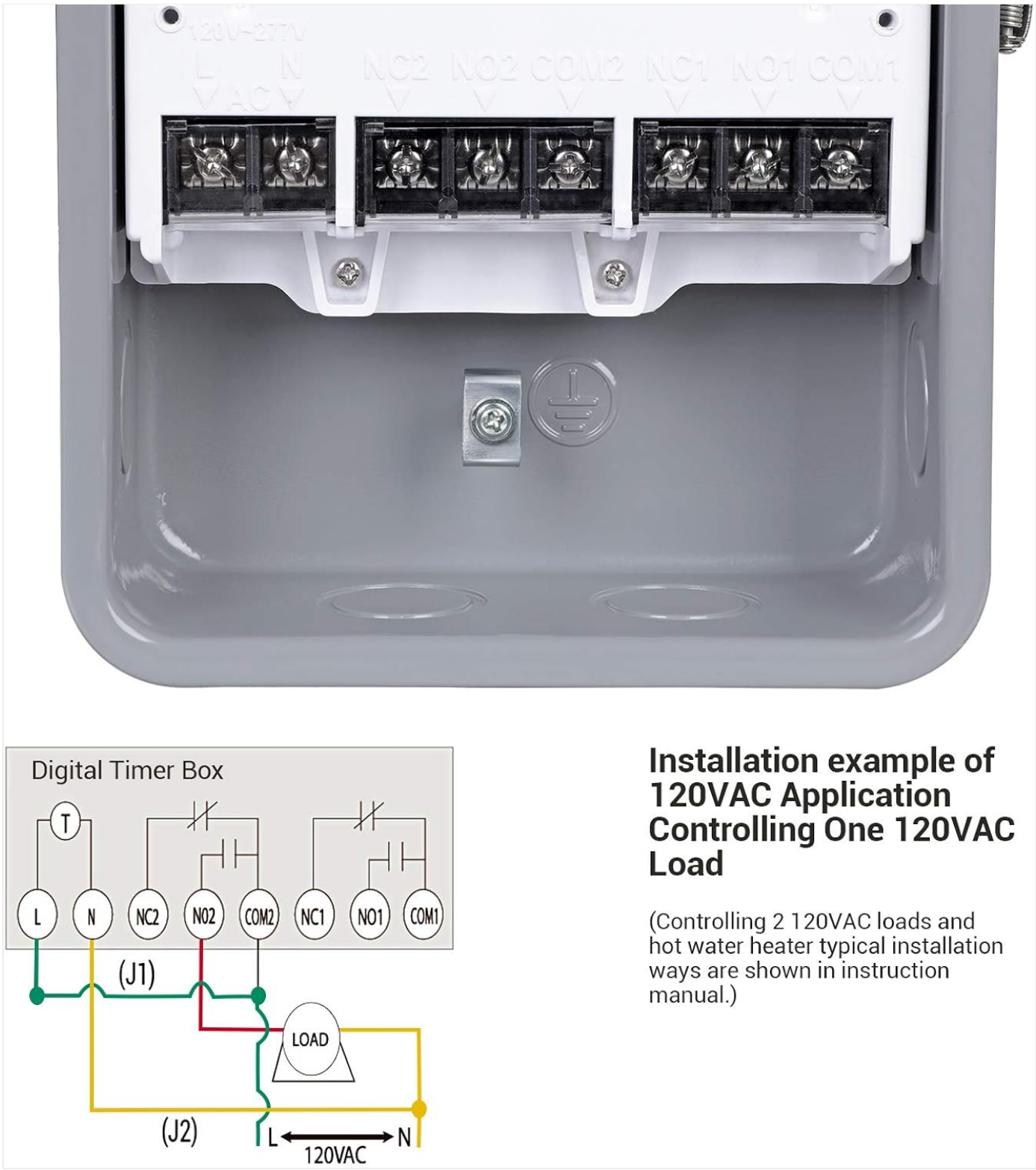



*Image: A close-up of the wiring terminals and a schematic diagram for a 120VAC application. This diagram illustrates how to connect the timer to a single 120VAC load.*

- De-energize the circuit at the main breaker before making any connections.
- Connect the incoming power supply wires to the appropriate terminals (L, N for 120V; L1, L2 for 240V/277V).
- Connect the load wires (to your appliance) to the corresponding output terminals (NO1, COM1, NC1, etc., depending on your application).
- Ensure all connections are tight and secure.
- Utilize the grounding terminal for proper grounding.

### 3.3 Initial Power-Up

Once wiring is complete and verified, restore power at the circuit breaker. The timer's display should illuminate.

## 4. Operating Instructions

The timer features a digital LCD display and control buttons for easy programming.




*Image: Overview of the timer's control panel, highlighting the digital LCD display, control buttons, and indicator lights.*

### 4.1 Setting Current Time and Day

1. Press the **TIME** button.
2. Use the **+** and **-** buttons to adjust the hour and minute.
3. Press the **MODE** button to select the current day of the week.
4. Press **TIME** again to save and exit.

### 4.2 Programming ON/OFF Schedules

The timer supports up to 20 ON/OFF programs. Each program can be set for specific days of the week or daily.

1. Press the **PROGRAM** button. The display will show "1 ON".

2. Use **+** and **-** to set the desired ON time for Program 1.
3. Press **MODE** to select the days of the week for this program (e.g., Mon-Sun, Mon-Fri, Sat-Sun, individual days).
4. Press **PROGRAM** again. The display will show "1 OFF".
5. Use **+** and **-** to set the desired OFF time for Program 1.
6. Repeat steps 3-5 for additional programs (2 ON/OFF, 3 ON/OFF, etc.) up to 20 programs.
7. Press **TIME** to exit programming mode and return to the current time display.

### 4.3 Operating Modes

Press the **MODE** button repeatedly to cycle through the following operating modes:

- **ON:** The timer output is continuously ON, ignoring all programmed schedules.
- **OFF:** The timer output is continuously OFF, ignoring all programmed schedules.
- **AUTO ON:** The timer is currently ON and will follow the programmed schedule. It will turn OFF at the next scheduled OFF time.
- **AUTO OFF:** The timer is currently OFF and will follow the programmed schedule. It will turn ON at the next scheduled ON time.
- **RANDOM (RND):** When activated, this mode slightly shifts your preset ON/OFF times by a small margin (e.g., ±15-30 minutes) to create a less predictable pattern, often used for security purposes.
- **DST (Daylight Saving Time):** Activates or deactivates Daylight Saving Time adjustment.

To ensure your programmed schedules run, select either **AUTO ON** or **AUTO OFF** mode.

### 4.4 Manual Override

The **MODE** button can also act as a manual switch to temporarily turn the output ON or OFF, or to switch between modes.

### 4.5 Resetting the Timer

To clear all settings and return the timer to factory defaults, press the**RESET** button using an insulated tool (e.g., a toothpick). This will erase all time and program settings.

## 5. Maintenance

The DEWENWILS timer is designed for durability and minimal maintenance.

- **Cleaning:** Periodically wipe the exterior of the timer with a damp cloth to remove dust and debris. Do not use abrasive cleaners or immerse the unit in water.
- **Inspection:** Regularly inspect the wiring connections and the integrity of the weatherproof seal, especially after severe weather conditions. Ensure the door is always securely latched.
- **Internal Battery:** The timer includes a built-in backup battery to retain settings during power outages. This battery is designed for long-term use but may eventually require replacement. If the timer consistently loses settings after power interruptions, the battery may need servicing by a qualified technician.




*Image: The internal waterproof pad helps seal the unit against moisture, contributing to its weatherproof rating. Regular inspection of this seal is recommended.*

## 6. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Timer display is blank. | No power supply; internal battery depleted. | Check circuit breaker. Ensure proper wiring. If power is present, the internal battery may need replacement (contact support). |
| Timer loses settings after power outage. | Internal backup battery is depleted or faulty. | The built-in battery should maintain settings for up to 3 months. If it fails sooner, the battery may need replacement. Contact DEWENWILS support for assistance. |

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Programs are not running. | Timer is not in AUTO mode; incorrect programming. | Ensure the timer is set to **AUTO ON** or **AUTO OFF**. Double-check your programmed ON/OFF times and selected days. |
| Timer turns ON/OFF at unexpected times. | RANDOM mode is active; incorrect time/day setting. | Check if **RANDOM** mode is enabled and disable if not desired. Verify the current time and day are set correctly. |

## 7. Specifications

- **Brand:** DEWENWILS
- **Model:** Outdoor Digital Programmable Timer
- **Material:** Metal
- **Electrical Ratings:** 40 Amp, 2HP, 120-277 VAC, 50/60Hz
- **Number of Settings:** Up to 20 ON/OFF programs
- **Screen Size:** 0.82 Inches
- **Item Weight:** 1.17 pounds (0.53 Kilograms)
- **Package Dimensions:** 10.75 x 7.8 x 4.02 inches
- **Operating Temperature:** -40°F to 140°F (-40°C to 60°C)
- **Certifications:** UL Listed
- **Battery:** 1 x 12V battery (included, for backup)




*Image: Physical dimensions of the timer, showing its height (8.7"), width (5.9"), and depth (2.8").*

## 8. Warranty and Support

DEWENWILS products are designed for reliability and performance. This product typically comes with a 1-year limited warranty from the date of purchase, covering defects in materials and workmanship under normal use.

For technical support, warranty claims, or questions regarding your DEWENWILS timer, please contact DEWENWILS customer service. Refer to the product packaging or the official DEWENWILS website for the most current contact information.

**Website:** www.dewenwils.com (Example, verify actual website)

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