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DEWENWILS PTD03

DEWENWILS PTD03 Outdoor Digital Programmable Timer Box Instruction Manual

Model: PTD03

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWENWILS PTD03 Outdoor Digital Programmable Timer Box. This device is designed to automate the control of various outdoor electrical loads such as pool pumps, water heaters, pool filters, spas, irrigation systems, and landscape lighting. It features flexible scheduling options, robust construction, and a backup memory function to ensure reliable performance.

The timer box offers up to 12 ON/OFF programs, supporting 7-day repeating or single-day settings, including Always ON/OFF, AUTO ON/OFF, and daylight saving time (DST) adjustments. Its simplified wiring design facilitates quicker installation. An integrated backup battery maintains clock and program settings for up to 6 months during power outages.



Image 1.1: The DEWENWILS PTD03 Outdoor Digital Programmable Timer Box in a closed state, highlighting its robust outdoor design and key electrical ratings.

2. Safety Information

WARNING: Risk of Electric Shock.

- Always turn off power at the main electrical panel before installing, servicing, or performing any maintenance on this

timer or the connected equipment.

- More than one disconnect switch may be required to de-energize the device before servicing. Ensure all power sources are disconnected.
- For supply connections, use copper wire AWG 8-14 suitable for at least 90°C (194°F).
- Use copper conductors only.
- Always close the door securely after use to maintain the IP44 waterproof rating.
- This device is ETL Listed, indicating compliance with North American safety standards.

Consult a qualified electrician if you are unsure about any part of the installation process.

3. Product Overview

3.1 Key Features

- **Flexible Scheduling:** Up to 12 ON/OFF programs with 7-day repeating or single-day settings.
- **Operating Modes:** Includes Always ON/OFF, AUTO ON/OFF, and Daylight Saving Time (DST) adjustments.
- **Simplified Wiring:** Designed for straightforward installation without complex jumper steps.
- **Power-Off Backup Memory:** Internal battery maintains clock and program settings for up to 6 months during power outages.
- **Heavy-Duty & Weather-Resistant:** 40A, 2HP capacity, 120V AC, with a resin PC core, flame-retardant insulation, and IP44 waterproof rating. Operates reliably from -40°F to 140°F.
- **Wide Compatibility:** Suitable for pool pumps, water heaters, pool filters, spas, irrigation systems, and landscape lighting.

3.2 Components



Image 3.1: An annotated diagram showing the internal and external components of the DEWENWILS PTD03 timer box, including the display screen, setting knob, reset button, adjustment knob, power indicator, load indicator, IP44 weatherproof rating, knockouts, and terminal blocks.

- **Display Screen:** Shows current time, day, and program status.
- **Setting Knob:** Used to navigate and select settings.
- **Adjustment Knob:** Used to change time and program values.
- **Reset Button:** Resets the timer to factory defaults.

- **Power Indicator:** Illuminates when power is supplied.
- **Load Indicator:** Illuminates when the load is active.
- **Terminal Blocks:** For electrical wiring connections.
- **Knockouts:** Pre-drilled holes for conduit entry.
- **IP44 Weatherproof Rating:** Indicates protection against solid objects larger than 1mm and splashing water from any direction.



Image 3.2: A close-up view illustrating the well-sealed gasket around the timer box door, ensuring its IP44 weatherproof rating.



Image 3.3: The DEWENWILS PTD03 timer box depicted in environments ranging from 140°F to -40°F, demonstrating its wide operating temperature range.

4. Specifications

Specification	Value
Model Number	PTD03
Input Voltage	120V AC, 60Hz
Output Rating	40A Resistive, 120V AC (2HP)
Motor Load	2HP, 120V AC
Number of ON/OFF Settings	Up to 12
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Enclosure Rating	IP44 Weatherproof
Material	Plastic, Resin
Product Dimensions	4"D x 6"W x 7"H (10.16 cm D x 15.24 cm W x 17.78 cm H)

Specification	Value
Item Weight	1.92 pounds (0.87 kg)
Certifications	ETL Listed

5. Installation

5.1 Mounting the Timer Box

1. Choose a suitable outdoor location for mounting, ensuring it is easily accessible for programming and maintenance, and protected from direct impact.
2. Use appropriate mounting hardware (screws, anchors, not included) to securely fasten the timer box to a wall or post. Ensure the box is level.
3. Knock out the desired conduit holes for wiring entry and exit.

5.2 Wiring Instructions

IMPORTANT: Ensure all power is disconnected at the main circuit breaker before proceeding with wiring. Failure to do so can result in serious injury or death.

The DEWENWILS PTD03 timer box supports controlling either one or two 120V AC loads simultaneously. Follow the appropriate wiring diagram below for your application.



Image 5.1: An overview of the wiring compartment and simplified wiring design of the DEWENWILS PTD03 timer box.

5.2.1 Controlling One 120V AC Load



Image 5.2: Wiring diagram for connecting a single 120V AC load to the timer box.

- Connect the incoming 120V AC Line (L) wire to the terminal labeled 'Load1 L'.
- Connect the incoming Neutral (N) wire to the terminal labeled 'N'.
- Connect the Line (L) wire of your appliance (load) to the terminal labeled 'L'.
- Connect the Neutral (N) wire of your appliance (load) to the terminal labeled 'Load N'.
- Ensure all connections are tight and secure.

5.2.2 Simultaneously Controlling Two 120V AC Loads



Image 5.3: Wiring diagram for connecting two 120V AC loads to be controlled simultaneously by the timer box.

- Connect the incoming 120V AC Line (L) wire to the terminal labeled 'Load1 L'.
- Connect the incoming Neutral (N) wire to the terminal labeled 'N'.
- Connect the Line (L) wire of the first appliance (Load1) to the terminal labeled 'L'.
- Connect the Neutral (N) wire of the first appliance (Load1) to the terminal labeled 'Load N'.
- Connect the Line (L) wire of the second appliance (Load2) to the terminal labeled 'Load2 L'.
- Connect the Neutral (N) wire of the second appliance (Load2) to the terminal labeled 'Load N'.
- Ensure all connections are tight and secure.

Note: Both devices connected in this configuration will be controlled simultaneously by the timer's programming.

6. Operation

After successful wiring and restoring power, the timer display will activate. The internal rechargeable battery will keep the clock running and save programs for up to 6 months during power outages. The screen may turn off during power loss but will restore once power is back.



Image 6.1: The timer's digital display and control knobs, illustrating various timer modes, 12 ON/OFF programs, schedule days, and battery runtime information.

6.1 Setting Current Time and Day

1. Press the 'CLOCK' button. The display will show the current time.
2. Use the 'HOUR' and 'MIN' buttons to adjust the hour and minute.
3. Use the 'DAY' button to set the current day of the week.

4. Press 'CLOCK' again to confirm and exit time setting mode.

6.2 Programming ON/OFF Cycles

The timer allows for up to 12 distinct ON/OFF programs. Each program can be set for specific days of the week or for daily repetition.

1. Press the 'PROG' button to enter programming mode. The display will show '1 ON'.
2. Use the 'HOUR' and 'MIN' buttons to set the desired ON time for Program 1.
3. Press the 'DAY' button to select the days for this program (e.g., Mo-Su, Mo-Fr, Sa-Su, individual days).
4. Press 'PROG' again. The display will show '1 OFF'.
5. Use the 'HOUR' and 'MIN' buttons to set the desired OFF time for Program 1.
6. Repeat steps 3-5 for up to 12 ON/OFF programs.
7. After setting all desired programs, press the 'CLOCK' button to exit programming mode.

6.3 Manual Override Settings

The timer provides manual override options to temporarily or permanently change the output status without affecting programmed settings.



Image 6.2: A visual representation of the manual override settings, including Always ON, Always OFF, AUTO ON, and AUTO OFF modes.

- **ON (Always ON):** The load remains continuously ON, overriding all programmed OFF times.
- **OFF (Always OFF):** The load remains continuously OFF, overriding all programmed ON times.
- **AUTO ON:** The load is currently ON, and the timer programming is activated. The timer will follow the next programmed OFF time.
- **AUTO OFF:** The load is currently OFF, and the timer programming is activated. The timer will follow the next programmed ON time.

To cycle through these modes, press the 'MODE' button repeatedly until the desired mode is displayed.

6.4 Daylight Saving Time (DST) Adjustment

To adjust for Daylight Saving Time, press and hold the 'DST' button. The time will advance or recede by one hour. Repeat to revert the change.

7. Maintenance

- **Cleaning:** Periodically wipe the exterior of the timer box with a damp cloth. Do not use abrasive cleaners or solvents.
- **Seals:** Ensure the door gasket is clean and free of debris to maintain the IP44 weatherproof rating. Always close the door securely.
- **Battery Backup:** The internal rechargeable battery is designed to maintain settings during power outages. No user maintenance is required for the battery. If the timer consistently loses settings after short power interruptions, the battery may need professional service.
- **Inspections:** Periodically inspect wiring connections for tightness and signs of wear or corrosion.

8. Troubleshooting

Problem	Possible Cause	Solution
Timer display is blank.	No power supply to the timer.	Check circuit breaker and wiring connections. Ensure power is ON.
Load does not turn ON/OFF at programmed times.	• Incorrect programming. • Timer is in 'ON' or 'OFF' manual override mode. • Wiring issue.	• Review programming steps (Section 6.2). • Ensure timer is in 'AUTO ON' or 'AUTO OFF' mode (Section 6.3). • Verify load wiring connections (Section 5.2).
Timer loses time or program settings after power outage.	Internal backup battery issue.	The battery is designed to recharge. Allow the timer to be powered for 24 hours. If the issue persists, contact customer support.
Display shows erratic characters or is frozen.	Temporary software glitch.	Press the 'RESET' button using a non-metallic pointed object (e.g., a toothpick). This will clear all settings, requiring reprogramming.

9. Warranty and Support

DEWENWILS products are manufactured to high-quality standards. For warranty information, technical support, or assistance with your PTD03 Outdoor Digital Programmable Timer Box, please contact DEWENWILS customer service. Refer to the product packaging or the official DEWENWILS website for current contact details.

Please have your model number (PTD03) and purchase date available when contacting support.

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