

Dpofirs CN101S-4

Dpofirs Mini Programmable Timer Switch (12VDC) Instruction Manual

Model: CN101S-4

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1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Dpofirs Mini Programmable Timer Switch (12VDC). This electronic automatic time control device is designed to manage the power supply to various electrical appliances based on user-defined schedules, offering precise timing and control.



Image 1.1: Front view of the Dpfirs Mini Programmable Timer Switch.

2. PRODUCT FEATURES

- **Automatic Control:** Enables automatic turning on/off of electrical devices based on set times.
- **High Accuracy:** Ensures precise timing and control of connected devices.
- **Anti-Interference:** Designed with strong anti-interference capabilities for reliable performance.
- **Versatile Application:** Suitable for controlling various electrical devices such as street lamps, neon lights, production equipment, radios, and televisions.
- **Flexible Time Settings:** Offers a wide range of time settings from 1 second to 168 hours.
- **Environmental Durability:** Operates effectively in temperatures from -10°C to 50°C and humidity below 95%.

3. COMPONENTS AND CONTROLS

The timer switch features an LCD screen and several buttons for programming and control. Refer to the diagram below for identification of each component.

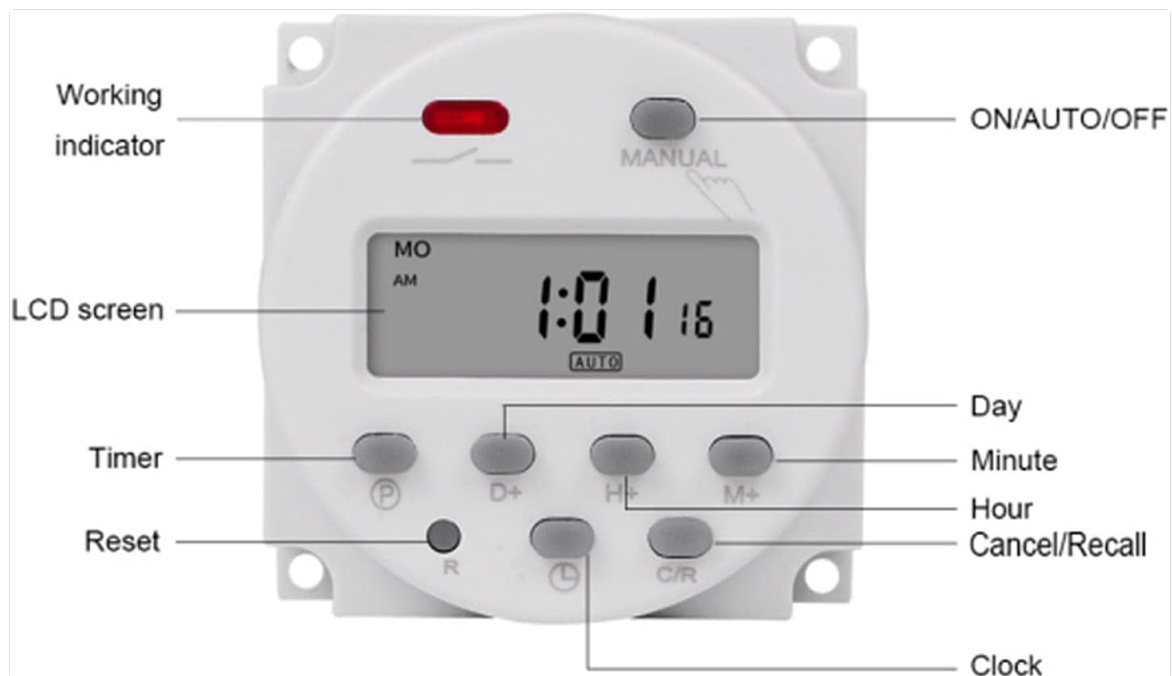


Image 3.1: Front panel with labeled components.

Working Indicator: Red LED light indicating operational status.

LCD Screen: Displays current time, day, and programming settings.

MANUAL (ON/AUTO/OFF) Button: Toggles between manual ON, automatic, and manual OFF modes.

P (Timer) Button: Enters programming mode to set ON/OFF times.

D+ (Day) Button: Adjusts the day of the week during time setting or programming.

H+ (Hour) Button: Adjusts the hour during time setting or programming.

M+ (Minute) Button: Adjusts the minute during time setting or programming.

Clock Button: Returns to current time display or exits programming mode.

C/R (Cancel/Recall) Button: Used to cancel settings or recall programs.

R (Reset) Button: Resets the device to factory defaults. Use a pointed object to press.



Image 3.2: Rear view showing wiring terminals.

The rear of the device features terminals for input power and power output to the controlled device. Ensure correct wiring as per the labels.

4. SPECIFICATIONS

Feature	Detail
Brand	Dpofirs
Model Number	CN101S-4
Input Voltage	12VDC (This specific model)
Power Output	16AMP/30VDC
Time Setting Range	1 second to 168 hours
Operating Temperature	-10°C to 50°C
Operating Humidity	Below 95%

Feature	Detail
Dimensions	2.36 x 2.36 x 1.18 inches
Item Weight	2.46 ounces
Installation Method	Wall/Panel Mount

5. SETUP AND INSTALLATION

Warning: Electrical installation should be performed by a qualified professional to prevent electric shock or damage to the device.

1. **Power Off:** Ensure all power to the circuit where the timer switch will be installed is turned off at the main breaker.
2. **Mounting:** Mount the timer switch securely to a wall or panel using appropriate screws through the mounting holes.
3. **Wiring:**
 - Connect the 12VDC input power to the designated INPUT terminals (1 and 2) on the back of the timer switch. Observe polarity: Terminal 1 for negative (-), Terminal 2 for positive (+).
 - Connect the device to be controlled to the POWER OUTPUT terminals (3, 4, and 5). Terminal 3 is typically for the common/neutral, Terminal 4 for normally closed (NC) output, and Terminal 5 for normally open (NO) output. For most applications, connect the load between Terminal 3 and Terminal 5.
 - Ensure all connections are tight and secure.
4. **Initial Power On:** Restore power to the circuit. The LCD screen should illuminate.
5. **Reset:** If the display is erratic or unresponsive, use a pointed object (like a pen tip) to press the 'R' (Reset) button. This will clear all settings and reset the clock to 00:00.

6. OPERATING INSTRUCTIONS

6.1. Setting Current Time and Day

1. Ensure the timer is in normal clock display mode. If not, press the **Clock** button.
2. Press and hold the **Clock** button.
3. While holding the **Clock** button, press **D+** to set the current day of the week.
4. While holding the **Clock** button, press **H+** to set the current hour.
5. While holding the **Clock** button, press **M+** to set the current minute.
6. Release the **Clock** button. The time and day are now set.

6.2. Programming ON/OFF Schedules

The timer supports up to 8 ON/OFF programs. Each program consists of an ON time and an OFF time.

1. Press the **P (Timer)** button once. The display will show "1 ON". This is for the first ON program.
2. Press **D+** to select the day(s) for this program. Options include individual days, weekdays, weekends, or all 7 days.

3. Press **H+** to set the desired ON hour.
4. Press **M+** to set the desired ON minute.
5. Press the **P (Timer)** button again. The display will show "1 OFF". This is for the first OFF program.
6. Repeat steps 2-4 to set the desired OFF day(s), hour, and minute for this program.
7. To set additional programs (2 ON, 2 OFF, etc.), repeat steps 1-6. Press the **P (Timer)** button to cycle through programs.
8. After setting all desired programs, press the **Clock** button to exit programming mode and return to the current time display.

6.3. Manual Override and Mode Selection

Press the **MANUAL (ON/AUTO/OFF)** button to cycle through the operating modes:

- **ON:** The output is continuously ON, overriding any programmed schedules.
- **AUTO:** The timer operates according to the programmed ON/OFF schedules. This is the standard operating mode for automatic control.
- **OFF:** The output is continuously OFF, overriding any programmed schedules.

For automatic operation, ensure the mode is set to **AUTO**.

6.4. Video Tutorial

For a visual guide on the timer switch's functions, please watch the following video:

Your browser does not support the video tag.

Video 6.1: An overview of the Mini Programmable Timer Switch, demonstrating its features and basic operation.

7. MAINTENANCE

- **Cleaning:** Wipe the exterior of the timer switch with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the timer is not exposed to extreme temperatures or humidity levels outside its specified operating range (-10°C to 50°C, <95% humidity).
- **Power Interruption:** The timer has a built-in battery to retain settings during power outages. If the timer is stored for a long period without power, the battery may discharge, requiring a reset and reprogramming upon reconnection.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Display is blank or erratic.	No power, internal battery discharged, or system error.	◦ Check power connections. ◦ Press the 'R' (Reset) button with a pointed object. ◦ Allow the device to charge its internal battery for a few minutes after power is restored.
Device does not turn ON/OFF at programmed times.	Incorrect programming, wrong operating mode, or incorrect wiring.	◦ Ensure the timer is in 'AUTO' mode (press MANUAL button). ◦ Verify programmed ON/OFF times and days. ◦ Check wiring connections to the load.
Cannot set time or programs.	Buttons unresponsive or device locked.	◦ Press the 'R' (Reset) button. ◦ Ensure you are following the correct sequence for setting time/programs.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact Dpofirs customer service through their official channels. Keep your purchase receipt for warranty claims.