

## LJJDSLYU CN101A

# CN101A 12V Timer Switch User Manual

Model: CN101A

## INTRODUCTION

The CN101A 12V Timer Switch is a programmable digital time relay designed for automatic control of electrical appliances. It features weekly programming with up to 17 ON/OFF settings, providing precise control over power supply for various applications. This manual provides detailed instructions for installation, operation, and maintenance of your timer switch.

## SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or property damage.

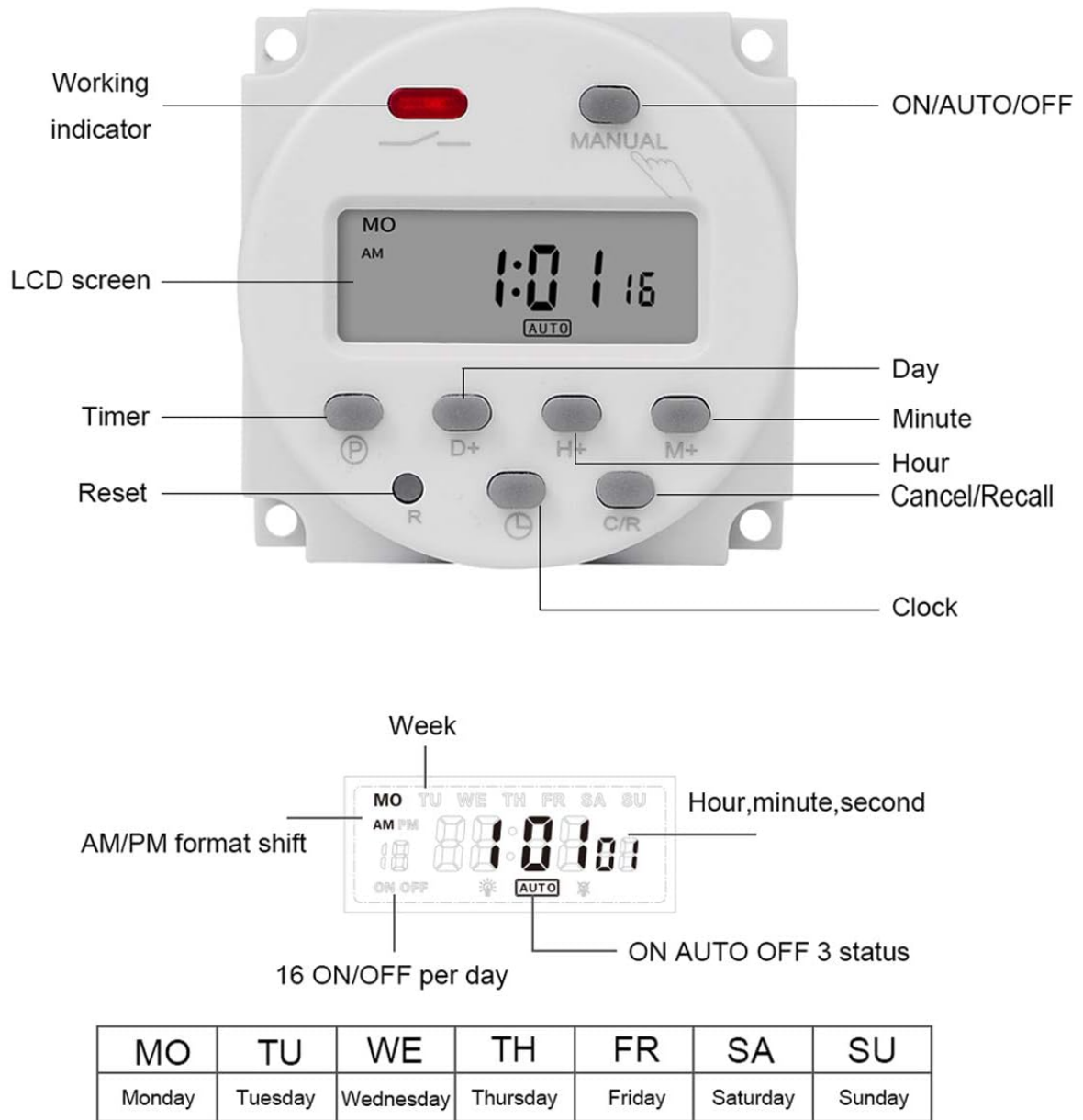
- Ensure power is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician if you are unsure.
- Do not expose the device to moisture or extreme temperatures.
- Verify the voltage and current ratings of your application match the device specifications.

## PRODUCT OVERVIEW

The CN101A timer switch features a clear LCD display and intuitive buttons for programming. Below is an illustration of the device and its main components.



Figure 1: CN101A 12V Timer Switch and included connecting wires.



**Figure 2:** Front panel layout of the CN101A Timer Switch, showing the LCD screen, working indicator, and control buttons (P, D+, H+, M+, C/R, Clock, Reset).

## SPECIFICATIONS

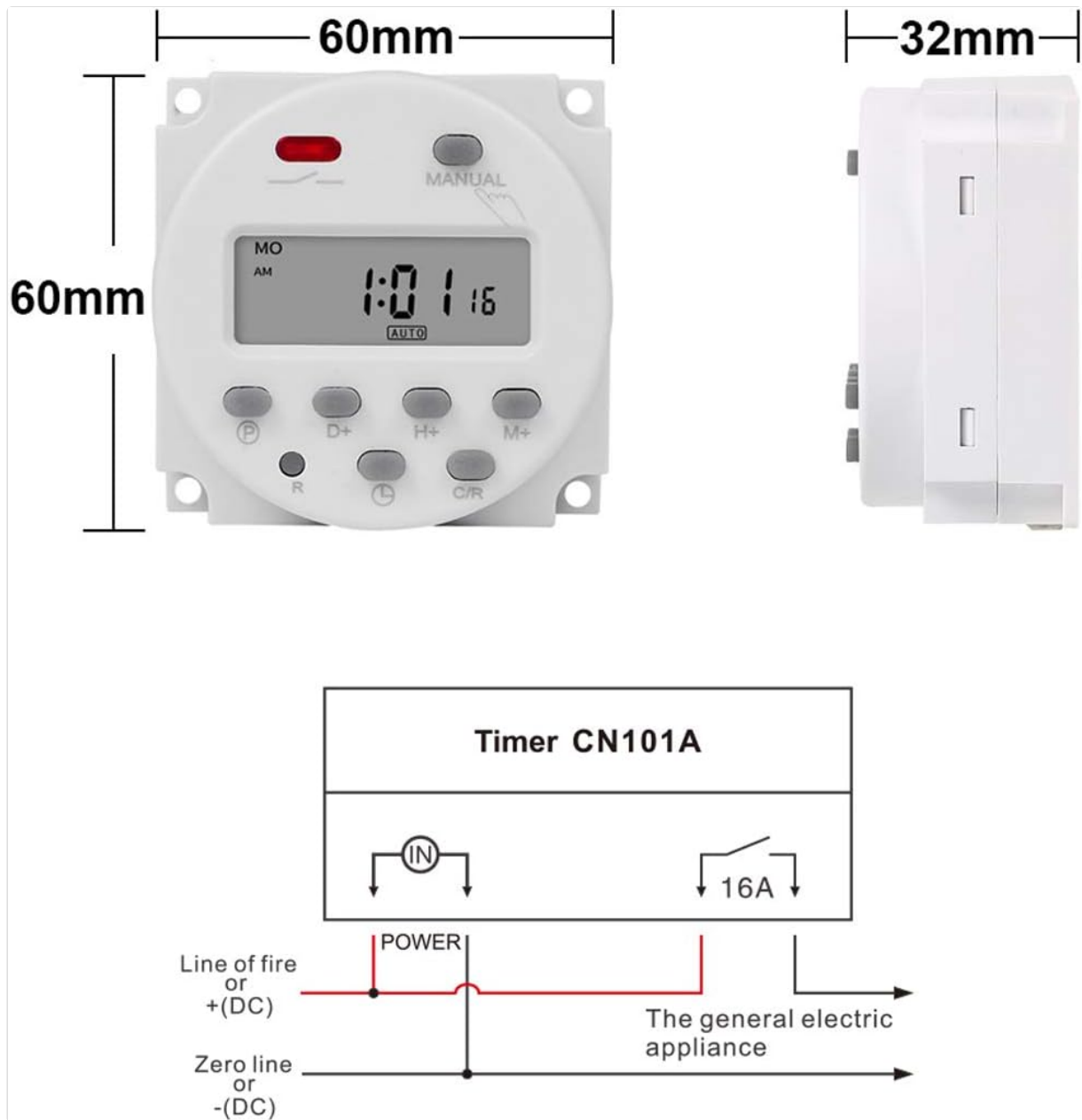
Parameter	Value
Working Voltage	DC12V
Power Consumption	Less than 1W
Display	LCD
Working Temperature	-20°C to +55°C
Set Times	17 times switch (day/week)

Timer Range	1 minute to 168 hours
Time Error	±1 second / 24 hours
Resistive Load (LVD .IEC)	16A / 250V AC
Inductive Load cos . 0.6	8A / 250V AC
Incandescent Lamp Load	1000W
Switching Current DC	16A / 24V DC
Shortest Switching Time	1 minute
Number of Channels	1
Number of Memory Spaces	17
Type of Connection	Plug in
Overall Size (Approx.)	60mm x 60mm x 32mm (2.36"x2.36"x1.26")

## SETUP AND WIRING

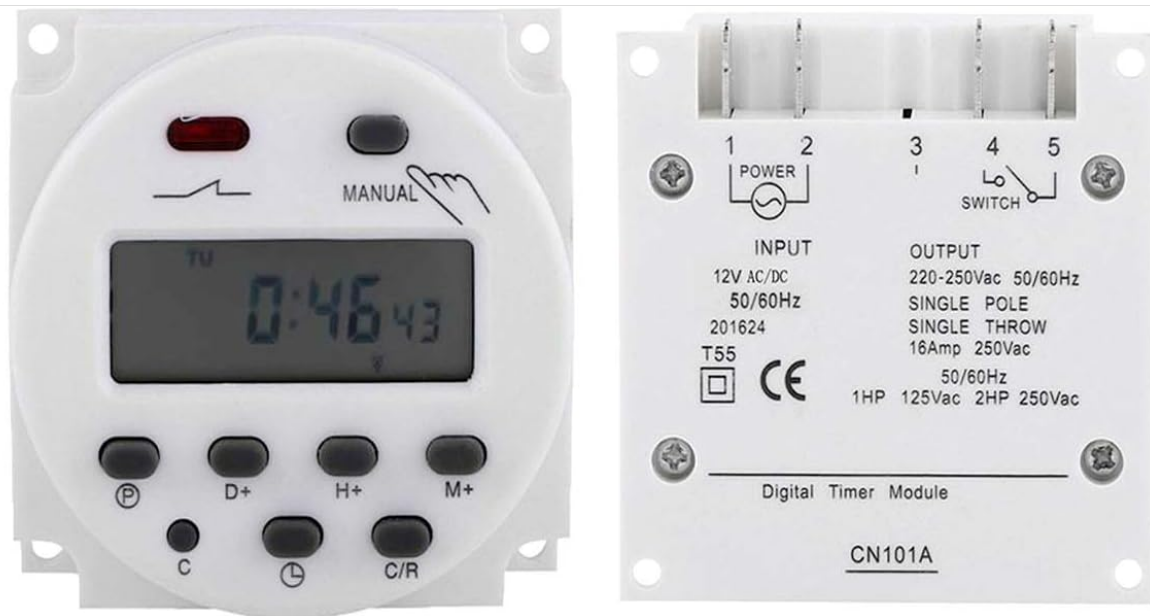
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Proper wiring is essential for the safe and correct operation of the timer switch. Refer to the diagram below for connection details.



**Figure 3:** Basic wiring diagram for the CN101A Timer Switch. Connect the Line of Fire (or +DC) and Zero Line (or -DC) to the input, and the general electric appliance to the output terminals.

The back of the timer switch has clearly labeled terminals for input and output connections. Ensure all connections are secure.



### ■ Operating Instruction:

1. To start switch: press reset Key, At the first time, if you want to the present time, please press “⌚” On board, then press D+, H+, M+ to adjust the number to the present time.
2. Enter into programming as follows:

Step	Key	Programming
1	Press P	Setting1 ON time(display 1on)
2	Press H+/M+	Setting hours and minutes
3	Press D+	To select same every day,or different time each day
4	Press P	Setting 1 off time (display 1 off)
5	Press H+/M+	Setting hours and minutes turn off time
6	Press D+	If you want the same every day, you need not press this key
7	Repeat step2-6	Set 2-17 on/off time
8	Press ⌚	End

If you do not require 17 settings,press “⌚” to the end.

Figure 4: Rear view of the CN101A Timer Switch, showing terminal block for power input (12V AC/DC) and single pole, single throw output (220-250Vac, 16A).

## OPERATING INSTRUCTIONS

### 1. Initial Setup and Setting Current Time

1. Upon first use or after a power reset, press the **Reset Key** (small 'C' button) with a pen tip to clear all previous settings.
2. To set the current time, press the **Clock** button. While holding the Clock button, press **D+** to adjust the day of the week, **H+** to adjust the hour, and **M+** to adjust the minute. Release the Clock button when finished.

## 2. Programming ON/OFF Cycles

The timer allows for up to 17 ON/OFF programs per day or week. Follow these steps to set your desired schedules:

Step	Key	Programming Action
1	Press <b>P</b>	Enter programming mode for Setting 1 ON (display shows "1 ON")
2	Press <b>H+</b> / <b>M+</b>	Set the desired hour and minute for the first ON time.
3	Press <b>D+</b>	Select the day(s) of the week for this ON setting. You can choose specific days or combinations (e.g., Mon-Fri, Sat-Sun, daily).
4	Press <b>P</b>	Enter programming mode for Setting 1 OFF (display shows "1 OFF")
5	Press <b>H+</b> / <b>M+</b>	Set the desired hour and minute for the first OFF time.
6	Press <b>D+</b>	Select the day(s) of the week for this OFF setting. If you want the same days as the ON setting, you do not need to press this key again.
7	Repeat steps 2-6	Continue for up to 17 ON/OFF settings. Each press of <b>P</b> will cycle through "2 ON", "2 OFF", and so on.
8	Press <b>Clock</b>	Exit programming mode and return to the current time display. The timer is now active.

**Note:** If you do not require all 17 settings, press the **Clock** button to exit programming mode at any time.

### Manual Override

Press the **MANUAL** button to cycle through ON, AUTO, and OFF modes. In AUTO mode, the timer operates according to programmed settings. In ON or OFF mode, the output is forced ON or OFF, overriding the program.

## MAINTENANCE

The CN101A timer switch requires minimal maintenance. Keep the device clean and dry. Do not use abrasive cleaners or solvents. Periodically check wiring connections for security.

The device has a power-off memory function, retaining programmed settings during power failures. No battery replacement is typically required for memory retention.

## TROUBLESHOOTING

- **Timer not turning ON/OFF as programmed:**
  - Check if the timer is in AUTO mode. Press the **MANUAL** button to cycle to AUTO.
  - Verify that the current time and day are set correctly.
  - Review your programmed ON/OFF settings for accuracy.
  - Ensure the wiring is correct and secure.
- **Display is blank:**

- Check the power supply to the timer.
- If recently installed, ensure correct voltage (DC12V) is applied.
- **Difficulty programming:**
  - Press the **Reset Key** (C button) and start programming from the beginning.
  - Refer to the "Operating Instructions" section carefully.

## PACKAGE CONTENTS

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- 1 x CN101A Programmable Timer Switch
- 1 x English Manual (this document)
- 4 x Connect Wires

## WARRANTY AND SUPPORT

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For technical support or warranty inquiries, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase.