

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [GODIYMODULES](#) /
- › [GODIYMODULES DC 6-30V Timer Switch LED Digital Time Delay Relay Module \(Model XYWJ01-001\) User Manual](#)

### GODIYMODULES XYWJ01-001

# GODIYMODULES DC 6-30V Timer Switch LED Digital Time Delay Relay Module (Model XYWJ01-001) User Manual

Model: XYWJ01-001 | Brand: GODIYMODULES

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and programming of the GODIYMODULES DC 6-30V Timer Switch LED Digital Time Delay Relay Module, Model XYWJ01-001. Please read this manual thoroughly before use to ensure proper functionality and safety.



Figure 1: Front view of the DC 6-30V Timer Switch LED Digital Time Delay Relay Module.

## SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the power supply voltage is within the specified range of 6V to 30V DC.
- Disconnect power before making any wiring connections or adjustments.
- Avoid exposing the module to moisture, extreme temperatures, or corrosive environments.
- Do not attempt to disassemble or modify the module beyond the instructions provided.
- Installation should be performed by qualified personnel if you are unsure about electrical wiring.

## SETUP AND WIRING

The module requires a DC power supply between 6V and 30V. It features a terminal block for power input and relay output connections.

### Terminal Connections



Figure 2: Rear view showing the terminal block for power and relay connections.

The terminal block typically includes connections for:

- **V+**: Positive power input (DC 6-30V)
- **V-**: Negative power input (Ground)
- **L1**: Relay Normally Open (NO) contact
- **L2**: Relay Common (COM) contact
- **L3**: Relay Normally Closed (NC) contact (if applicable, check module markings)

Refer to the markings on your specific module for exact terminal identification.

### **DC 6.0~30V Wiring Mode**

## DC6.0~30V wiring mode

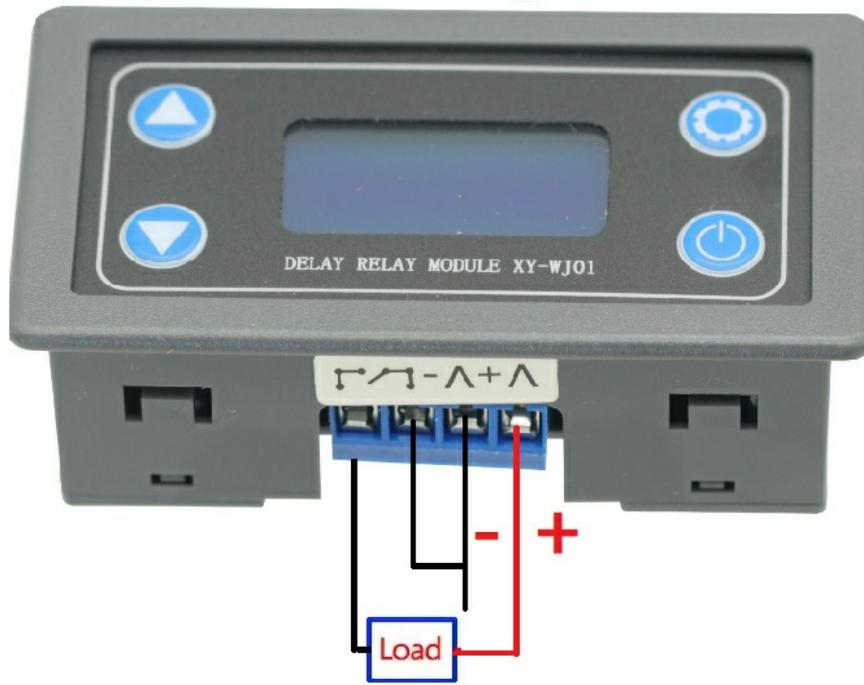


Figure 3: Wiring diagram for connecting the module to a DC 6-30V power supply and a DC load.

For DC loads, connect the positive terminal of your DC power supply to V+ and the negative terminal to V-. The load should be connected in series with the relay's common (COM) and normally open (NO) contacts, or normally closed (NC) depending on desired operation.

### 220V Wiring Mode (AC Load)

## 220V Wiring Mode

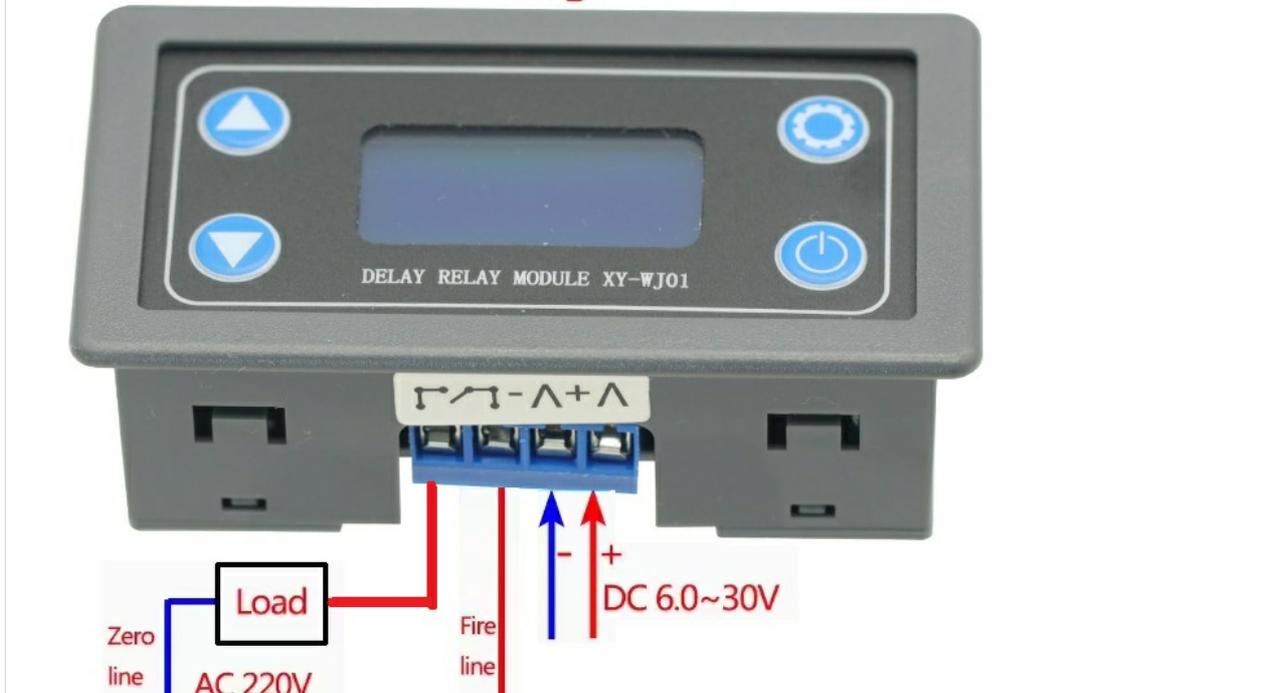


Figure 4: Wiring diagram for connecting the module to a DC 6-30V power supply and an AC 220V load.

**WARNING: When connecting AC loads, extreme caution must be exercised. Ensure all power is disconnected before wiring. AC wiring should only be performed by individuals with appropriate electrical knowledge and safety training.**

For AC loads, the module itself is powered by DC 6-30V. The relay contacts then switch the AC 220V circuit. Connect the AC 220V live (fire) line to the relay's common (COM) contact, and the normally open (NO) contact to one side of your AC load. The other side of the AC load connects to the AC neutral (zero) line.

## Trigger Input and Serial Communication



Figure 5: Trigger input connections, relay output, and location of UART port.

The module supports high and low-level trigger inputs. Connect your trigger signal to the designated trigger input pin (refer to module markings or the diagram above). The signal ground (GND) should be common with the module's power ground.

For UART communication, the port is located behind the back cover. Carefully remove the back cover to access the UART pins. The default UART settings are 9600 baud, 8 data bits, 1 stop bit (9600,8,1).

### UART Commands:

- **read**: Read system parameters
- **OP:xxxx**: Set ON time (e.g., OP:1s, OP:0.1s, OP:0.01s, OP:1min)
- **CL:xxxx**: Set OFF time (e.g., CL:1s, CL:0.1s, CL:0.01s, CL:1min)
- **LP:xxxx**: Set loop cycles
- **start**: Trigger/Start (P0-P7 Active)
- **stop**: Pause (P0-P7 Active)
- **PX**: Set the working mode (P0-P9)

## OPERATING INSTRUCTIONS

The module features an LCD display and several buttons for operation and programming.

### Button Functions and Display



Figure 6: Front panel with labeled buttons and display elements.

- **Setting Button (Gear icon):** Used to enter and navigate programming modes.
- **Add Button (Up arrow):** Increases parameter values.
- **Reduce Button (Down arrow):** Decreases parameter values.
- **Pause/Trigger Button (Power icon):** Pauses/resumes timing or acts as a manual trigger.
- **LCD Display:** Shows current working mode (e.g., P0.0P), timing status, and time values. "OUT" indicates the relay is closed.

## Programming Modes (P0-P9)

The module supports various operating modes, typically designated as P0.0 to P9.9. To enter programming mode, press and hold the **Setting Button**. Use the **Add** and **Reduce** buttons to select the desired mode. Press the **Setting Button** again to confirm and enter parameter settings for that mode. Use **Add** and **Reduce** to adjust values (OP, CL, LP) and the **Pause/Trigger Button** to switch between time units (seconds, minutes, hours).

### Common Modes (Example):

- **P0.0:** Timer ON (OP) then OFF (CL) once.
- **P1.0:** Timer ON (OP) then OFF (CL) in a loop (LP cycles).
- **P2.0:** Trigger ON (OP) then OFF (CL) once.
- **P3.0:** Trigger ON (OP) then OFF (CL) in a loop (LP cycles).
- *(Specific mode details may vary; refer to the module's on-screen prompts or detailed documentation for your exact firmware version.)*

After setting parameters, press and hold the **Setting Button** to save and exit programming mode.

## Low-Power State

If no operation is performed for 5 minutes, the module will enter a low-power state. Any button press will wake it up.

## MAINTENANCE

The GODIYMODULES Timer Switch is designed for low maintenance. To ensure optimal performance:

- Keep the module clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check wiring connections to ensure they are secure.
- Avoid exposing the module to direct sunlight or excessive heat, which can degrade electronic components.

## TROUBLESHOOTING

If you encounter issues with your timer module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Module does not power on.	Incorrect power supply voltage or polarity; loose wiring.	Verify power supply is 6-30V DC and connected correctly (V+ to positive, V- to negative). Check all wiring connections.

Problem	Possible Cause	Solution
Relay does not activate.	Incorrect programming mode; load wiring issue; trigger not detected.	Check the selected programming mode and parameters (OP, CL). Ensure the load is correctly wired to the relay contacts. If using a trigger, verify the trigger signal is correct and connected properly.
Display shows unexpected characters or behavior.	Power fluctuations; internal error.	Disconnect power for a few seconds, then reconnect. If the issue persists, contact support.
Difficulty programming the module.	Unfamiliarity with button sequence or mode logic.	Carefully re-read the "Operating Instructions" section, especially "Programming Modes." Practice the button sequences. Consider using UART for programming if comfortable.

## SPECIFICATIONS

- **Model:** XYWJ01-001
- **Power Supply:** DC 6V ~ 30V
- **Display:** LCD with two columns
- **Trigger Mode:** High level, Low level, Switch quantity
- **UART Communication:** Yes (9600,8,1)
- **Low-Power Mode:** Automatic entry after 5 minutes of inactivity
- **Product Dimensions:** 2.24 x 1.17 x 0.8 inches (56.9 x 29.7 x 20.3 mm)
- **Item Weight:** 1.76 ounces (50 grams)
- **Manufacturer:** GODIYMODULES

## WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer, GODIYMODULES. Keep your purchase receipt as proof of purchase.

Manufacturer: GODIYMODULES

Model: XYWJ01-001