

# XY-LJ02 Timer Relay Delay & Trigger Switch Module With LCD – Complete Product Description

## Introduction

The **XY-LJ02 Timer Relay Delay & Trigger Switch Module With LCD** is a versatile and intelligent control module designed for automation, timing, and relay switching applications. With a built-in LCD screen for real-time display and easy programming, this module is a favorite among electronics enthusiasts, engineers, and DIY hobbyists. Whether you need precise delay control, automatic switching, or timed relay triggering, the XY-LJ02 offers an all-in-one solution with high accuracy and user-friendly operation.

This module is widely used in projects that require **timing delay, cycle timing, on/off control, and trigger switching** for electronic devices. From industrial automation to home electronics projects, the XY-LJ02 is a reliable choice.



## Key Features of XY-LJ02 Timer Relay Module

- **Clear LCD Display:** Displays real-time parameters such as countdown, set timing, and working status.
- **Multiple Timing Modes:** Supports delay ON, delay OFF, cycle timing, and trigger functions.

- **High Precision:** Accurate timing control from milliseconds up to long durations, depending on your configuration.
- **User-Friendly Programming:** Easy to set delay and trigger functions using onboard buttons and menu system.
- **Wide Voltage Input:** Compatible with various DC power inputs, typically ranging from 6V to 30V (depending on model).
- **Powerful Relay Output:** Can switch loads such as motors, lights, fans, pumps, or other electrical devices.
- **Compact and Durable Design:** Small module size makes it suitable for integration into DIY projects, control panels, and industrial systems.
- **Memory Function:** Saves settings automatically even after power-off, ensuring stability and convenience.

## Technical Specifications

- **Model:** XY-LJ02
- **Display:** LCD screen for real-time monitoring
- **Input Voltage:** 6V – 30V DC (varies by supplier specification)
- **Control Modes:** Delay ON, Delay OFF, Cycle Timing, Trigger Control
- **Timing Range:** Milliseconds up to hours (adjustable)
- **Relay Output:** High-quality relay module supporting AC and DC loads
- **Operation:** Button-based configuration with menu system

- **Data Storage:** Retains user settings after shutdown
- **Size:** Compact PCB module for easy integration

## Applications of XY-LJ02 Timer Relay Module

The **XY-LJ02 Timer Relay Delay & Trigger Switch Module With LCD** is designed to meet a wide range of automation and control needs. Some common applications include:

1. **Automation Projects** – Control machines, pumps, and lights with timed operations.
2. **DIY Electronics** – Use it in custom projects that require precise timing and relay control.
3. **Industrial Equipment Control** – Suitable for factory automation and device scheduling.
4. **Home Automation** – Control fans, heaters, or appliances with programmed delay or cycle switching.
5. **Motor Protection** – Prevent frequent starts by adding a delay between operations.

6. **Testing and Experimentation** – Perfect for labs and learning environments for electronics and timing experiments.



## Why Choose the XY-LJ02 Timer Relay With LCD?

Unlike traditional relay modules, the **XY-LJ02** offers a smart and advanced control solution. The integrated **LCD display** provides a clear and user-friendly interface, making it easier to configure and monitor. Its wide range of timing functions and memory capability ensures reliable performance, making it a valuable tool for both professionals and hobbyists.

Other advantages include:

- Easy programming without needing external software.
- High compatibility with Arduino, Raspberry Pi, and other microcontrollers.
- Robust relay for long-term use.
- Cost-effective solution for advanced timing needs.

## SEO Benefits – Who Should Buy This Module?

The **XY-LJ02 Timer Relay Delay & Trigger Switch Module With LCD** is ideal for:

- **Electronics students and hobbyists** learning about relay control and automation.
- **DIY makers** who want to build timed control projects.
- **Industrial engineers** needing a reliable timing solution for machinery.
- **Home automation enthusiasts** looking for a smart yet affordable module.

By integrating **keywords such as “timer relay module,” “delay switch,” “trigger relay module,” and “automation relay controller”**, this product description ensures high SEO visibility for online searches.

## **Conclusion**

If you are looking for a **reliable, versatile, and easy-to-use timer relay module**, the **XY-LJ02 Timer Relay Delay & Trigger Switch Module With LCD** is the perfect choice. Its compact design, advanced features, and wide range of applications make it an essential component for **DIY projects, home automation, and industrial automation systems**. With its precise timing functions and smart LCD display, this module stands out as one of the best solutions for relay-based control tasks.