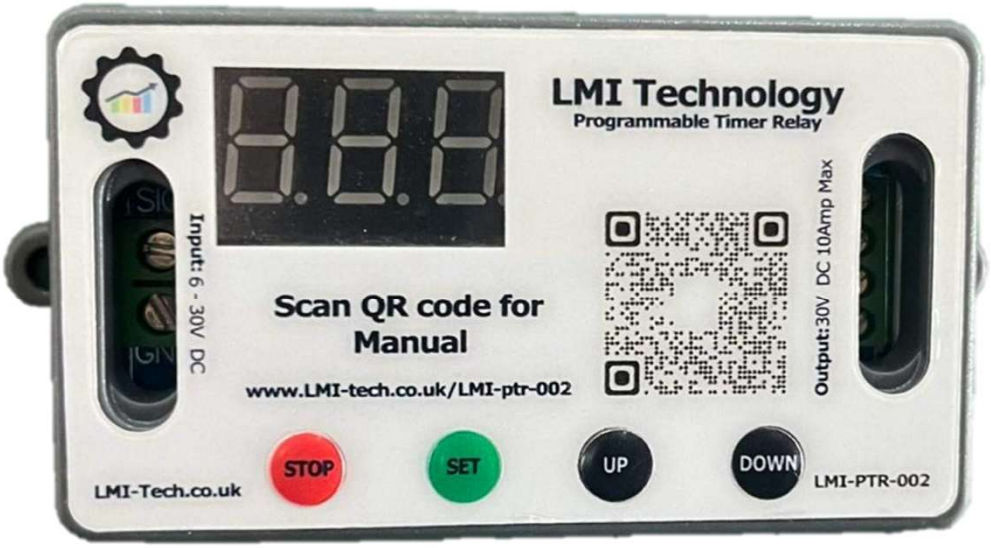


LMI–PTR-002

TIMER RELAY MODULE

Description:

Multi Voltage Timer Relay with ability to set various modes / time variants using the buttons on the device.

- Timer Relay
- Delay Timer Relay
- Flasher
- Timer with hold delay

- http://www.lmitech.co.uk/lmi-ptr-002

Setting the modes / parameters

Relay Disable Mode

Short Press of <STOP> button

- This will toggle the output (Out –ve) on the relay <ON> and <OFF> is shown on screen
- The screen will still show timings (OP/CL) but the output is turned on/off as shown. This mode is used for program verification without the need to disconnect the output wires.

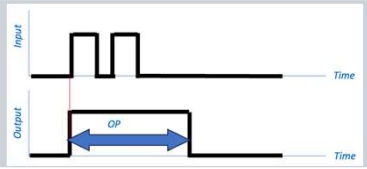
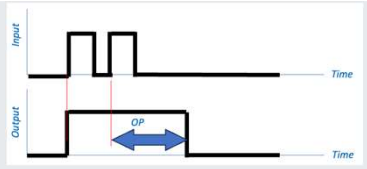
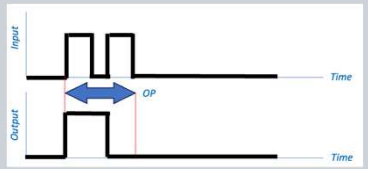
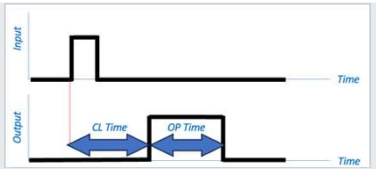
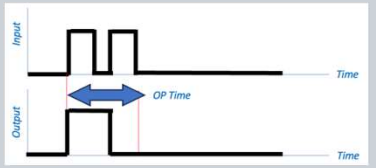
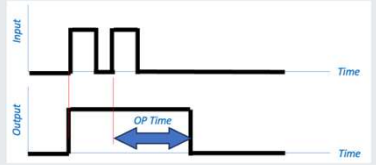
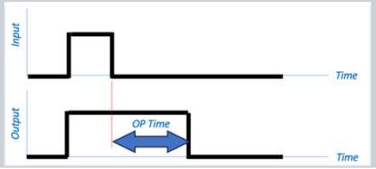
Mode / Parameter Set

Press and hold <SET> button for 2 Seconds

- Select Program Mode
  - Device will show current mode P.**
  - Use <UP> and <DOWN> buttons to find required mode
  - Press <SET> to confirm selection
- The Parameters for the selected mode can now be set (OP/CL/LOP)
- The Parameters will flash on screen, you can adjust the required time for each by using the <UP> and <DOWN> buttons, save by pressing <SET> as you go through each setting individually
- Note:
  - Short presses on <UP> and <DOWN> result in individual increments
  - Long presses on <UP> and <DOWN> result in a rapid increase / decrease
  - Setting the timing range - After setting the parameter value in the mode selection interface, press the STOP button to select the timing range.
    XXX. Decimal point is in one place, timing range: 1 second to 999 seconds
    XX.X decimal point in ten, timing range: 0.1 seconds to 99.9 seconds
    X.X.X. The decimal point is fully illuminated, the timing range is from 1 minute to 999 minutes.
  - In LOP --- is an infinite loop
- At the end of setting the parameters press and hold <SET> button for 2 Seconds and release, this will save the settings. On release the device will flash the saved mode on the screen.
- To confirm program mode, power cycle input power
- To confirm current settings – PRESS set (<under 0.5 seconds), the screen will flash through the current settings for OP/CL/LOP,

Parameters:-

CL	Timer 1
OP	Timer 2
LOP	Number of Cycles (Loops)

Mode	Trigger (Timer starts when)	Description	Note	Visual
P 1.1	Trigger applied (rising edge)	Relay will turn on for Time (OP) when trigger applied then turn off	Additional triggers in set time have no impact	
P 1.2	Trigger applied (rising edge)	Relay will turn on for Time (OP) when trigger applied then turn off	Additional triggers in set time reset the timer	
P 1.3	Trigger applied (rising edge)	Relay will turn on for Time (OP) when trigger applied then turn off	Additional trigger in set time turns timer off	
P 2	Trigger applied (rising edge)	Trigger starts the delay on timer countdown (CL) once delay time expired relay will turn on for Time (OP) when trigger applied then turn off	Additional triggers in set time have no impact	
P 3.1	Trigger applied (rising edge)	Relay will turn on for Time (OP), once expired relay off for time (CL). Will repeat as per LOP (1 to infinite cycles)	Additional trigger in set time turns off	
P 3.2	N/A	Relay is on at power up for Time (OP), once expired relay off for time (CL). Will repeat as per LOP (1 to infinite cycles)	Triggers have no impact in this mode Only way to restart is to power the device off/on	
P 4	Trigger removed (falling edge)	Relay is turned on when trigger applied, OP time starts when trigger removed	Additional triggers in set time reset the timer (OP)	

EDIT 19/03/2025
P1-P3 PROGRAM CURRENTLY BEING REVIEWED
P4 IS NOW CORRECT. - CONTACT sales@grncomponents.co.uk

Wiring Configurations

Live Trigger

Earth Trigger

Technical Specification

Working voltage:	6-30VDV
Trigger:	High, 3.0 -24VDC
Quiescent current:	20mA
Working current:	50mA
Mounting hole:	3mm
Working temperature:	-40 ~ 85 ° C
Net weight:	Nom 44g
Size:	70 * 40 * 23mm
Output capacity: (DC)	Max 15A/12V, 7.5A/24V (200W max)
IP Rating:	N/A
Reverse Polarity Protection:	Yes