Product introduction

This product liquid crystal display, very clear, simple and easy to use, powerful, but please buyers look at the operation instructions of this product in detail, ver y practical products.

Product parameters

Working voltage: 6--30V power supply

Trigger signal source: high level trigger (3.0V~24V), low level trigger (0.0V~0.2 V), switching control (passive switch).

Output capacity: can control DC 30V 10A equipment

Static current: 15mA

Operating current: 50mA

Service life: MOS tube with power output, switch unlimited times;

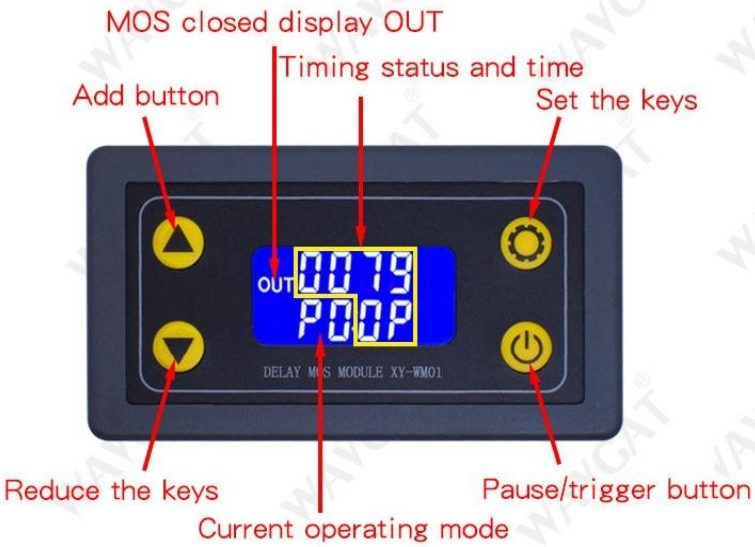
Working temperature: -40 -- 85℃

Size: 7.1*3.9*2.5cm(length, width and height)

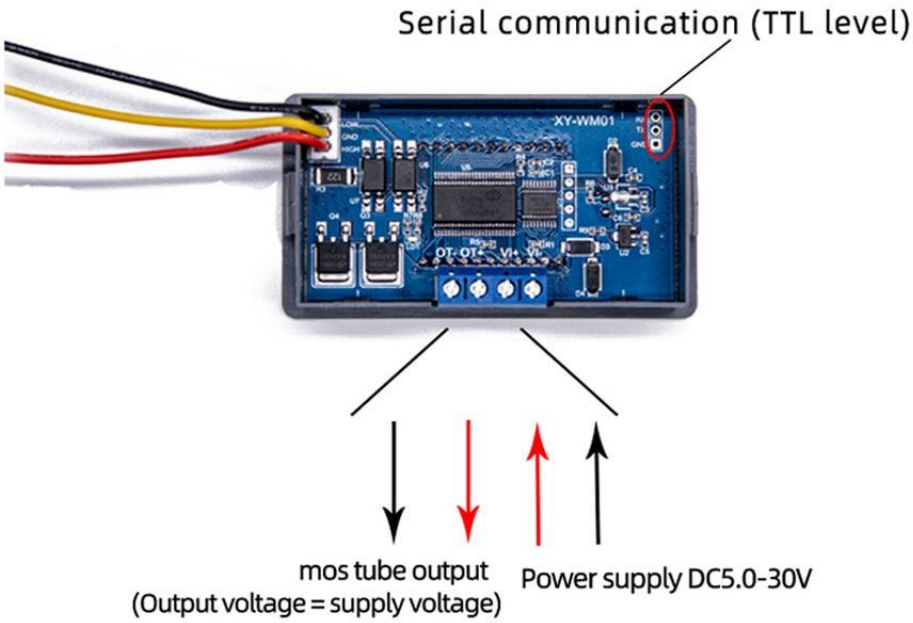
With opto-coupling isolation, enhance the ability of anti-interference, industrial level circuit board, set parameters after power forever memory.

Product features

- With liquid crystal display, the current mode and parameters at a glance, very clear, simple and practical;
- Support button trigger control, high and low level trigger, switch quantity con trol, support NPN, PNP sensor access, suitable for most occasions;
- Wide voltage supply (6~30V), very convenient to use;
- Timing range: 0.01 seconds to 9999 minutes;
- Support UART data uploading and parameter setting;
- One-key pause function, with reverse connection protection, reverse connectio n does not burn;
- Increased the sleep mode, after enabling, about 5 minutes without any operati on, automatically turn off the LCD backlight;Any key to wake up;
- You can set different OP, CL, LOP parameters, which are independent of each other and stored separately;
- All setting parameters are automatically powered down and saved.



INDUSTRIAL GRADE SILICONE CORD
YELLOW-SIGNAL GROUND GND
RED-HIGH LEVEL TRIGGER (PNP SENSOR CAN BE CONNECTED)
BLACK-LOW LEVEL TRIGGER (PNP SENSOR CAN BE CONNECTED)
THE BLACK WIRE AND THE YELLOW WIRE ARE SHORTED TO REALIZE THE SWITCH TRIGGER



Note: MOS is a live output, and the output voltage is equal to the supply voltage.

Product features

P0: After the signal is triggered, the MOS tube is switched on for OP time and t hen disconnected;In OP time, the signal trigger again is invalid;

P1: After the signal is triggered, the MOS tube is switched on for OP time and t hen disconnected;During the OP time, the signal again triggers a retiming;

P2: After the signal is triggered, the MOS tube is switched on for OP time and t hen disconnected;During the OP time, the signal triggers reset again, the MOS tu

be is disconnected and the timing stops.

P3: After the signal is triggered, the MOS tube is disconnected for CL time, and then the MOS tube is switched on;

P4: Give the trigger signal. After the MOS tube turns on the OP for a long time, the MOS tube dissolves the CL for a long time, and then cycle the above action s. Give the signal again in the cycle, restore the initial state, and stop the timin g.The number of cycles (LOP) can be set;At the end of the cycle, keep the MOS tube disconnected;

P5: Give the trigger signal. After the MOS tube dissolves the CL time, the MOS tube turns on the OP time, and then repeat the above actions. Give the signal ag ain in the cycle, restore the initial state, and stop the timing.The number of cycl es (LOP) can be set;At the end of the cycle, keep the MOS tube on;

P6: There is no need to trigger signal after power on. The time of MOS tube sw itching on OP and MOS tube disconnecting CL is repeated above.The number of cycles (LOP) can be set;At the end of the cycle, keep the MOS tube disconnecte d;

P7: There is no need to trigger signal after power on. The time for MOS tube to disconnect CL and MOS tube to turn on OP is repeated above.The number of cyc les (LOP) can be set;At the end of the cycle, keep the MOS tube on;

P8: Signal holding function, if there is a trigger signal, the timing is cleared to zero and the MOS tube is kept on;When the signal disappears, the MOS tube is d isconnected after timing the OP;During the timing period, there is a signal, the t iming is zero;

P9: Signal holding function. If there is a trigger signal, the timing will be reset and the MOS tube will be disconnected.When the signal disappears, timing CI an d then conducting the MOS tube;During the timing period, there is a signal, the t iming is zero;

P0~P7 mode:short press the pause button, the system will start timing if the timi ng is not triggered;When the system has been timed, the system will pause the ti ming,MOS will be disconnected, and a flashing "OUT" will be displayed to remi nd the system;

P8 P9 mode: the pause button is used as the trigger signal in the operation inter face, and the key function of short press/long press is invalid;

Timing range

0.01 seconds (min)~9999 minutes (Max) continuous adjustable

How to select timing range:

In the OP/CL parameter modification interface, short press the pause button to s elect the timing range;

XXXX has no decimal point, the timing range is 1 second ~9999 seconds

XXX.X decimal point in ten places, timing range 0.1 seconds to 999.9 seconds

XX.XX decimal point in hundreds, timing range of 0.01 seconds to 99.99 secon ds

X.X.X.X decimal point fully bright, timing range 1 minute to 9999 minutes

For example, if you want to set the OP to 3.2 seconds, move the decimal point t o the tens place and the LCD displays 003.2

Parameter description: OP on time, CL off time, LOP number of cycles (1-9999, "----" stands for infinite cycles)

Set the parameters

(a) Long press the setting button to enter the setting interface;

(b) First set the working mode, the working mode flashes to remind, and press th e "increase/decrease" button to set the working mode;

(c) Short press the setting button to select the working mode and enter the syste m parameter setting;

(d) In the system parameter setting interface, short press the setting button to sw itch the system parameters to be modified, and short press/long press the increas e/decrease button to modify;

(Note: in P0~P3/P8/P9 mode, short press the setting button is invalid);

(e) In the OP/CL parameter modification interface, short press the pause button t o switch the timing unit (1s/0.1s/0.01s/1min);

(f) After setting all parameters, long press the setting button to save parameter s etting and exit the setting interface;

1. Remote data uploading and parameter setting functions:

The system supports UART data uploading and parameter setting functions;

UART: 9600,8,1

CMD	Function
read	Read system parameters
OP:xxxx OP:xxx.x OP:xx.xx OP:x.x.x.x	1s 0.1s 0.01s 1 min
CL:xxxx CL:xxx.x CL:xx.xx CL:x.x.x.x	1s 0.1s 0.01s 1 min
LP:xxxx	Settings Cycles
start	Trigger/Start (P0~P7 Active)
stop	Pause (P0~P7 Active)
PX	Set the working mode (P0~P9)

Additional features

(a) Automatic sleep function: in the operation interface (P0~P7 mode), long press the pause button to start or close the automatic sleep function (L-P select ON to start the sleep function, about five minutes, without any operation, the LCD backlight will automatically close, the system runs normally, and any key will wake up;Off turns off the sleep function);

(b) Parameter view: in the operation interface, press the SET key to display the current parameter Settings of the system without affecting the normal operation of the system;

(c) Switch of display content: in P4~P7 mode, press DOWN button to switch the display content (running time/number of cycles);

Product size

Weight: 40g

Recommended opening sizes are shown below