

Changzhou Xionghua Tongtai Automation Equipment Co., Ltd



User's Guide
Programmable Timer Switch
XHST-30

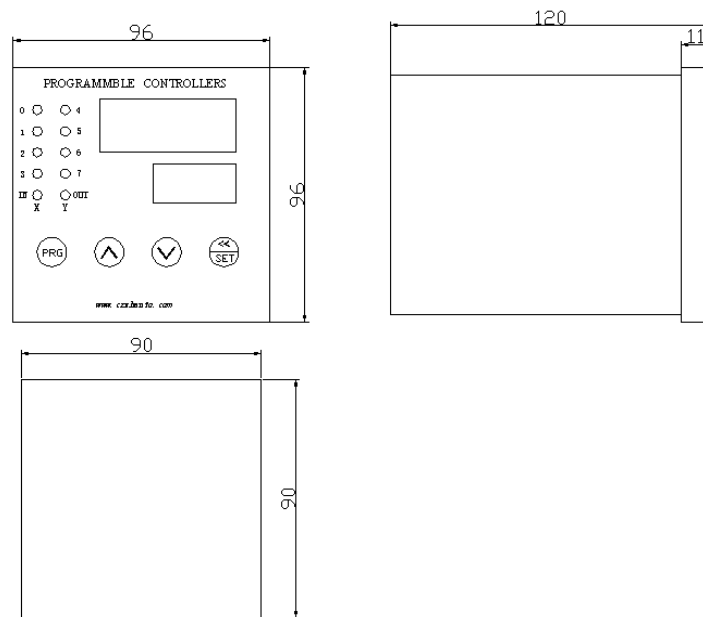
Feature

- | Intelligent and digital LED timer
- | 1-8 outputs ,programmable and arbitrary combination and arbitrary output
- | Memory storage (10years) / mechanical life
- | Panel mounting
- | Delay time unit :0.1s/1s/1min(optional)
- | Input: contactor/transistor
- | Power supply (220V AC 50/60Hz)
- | 100 groups of programme/time periods

Selection table

Model	XHST-30
Outputs	8 points (AC250V2A)
Main Function	Street lights control,fountain controller,time switch
Power Supply	220V AC 50/60Hz 3W
Dimension/Perforate	96*96/90*90
Input Signal	3 input points
Memory Storage	at less 10 years
Ambient Temperature	-10~+55℃
Anti-interference	Analog $\pm$ 2000V square wave signal from interference unit (pulse width : 1us)
Time Accuracy	$\pm$ 1%
Weight	500g
withstand voltage	2000VAC 50/60Hz 1min

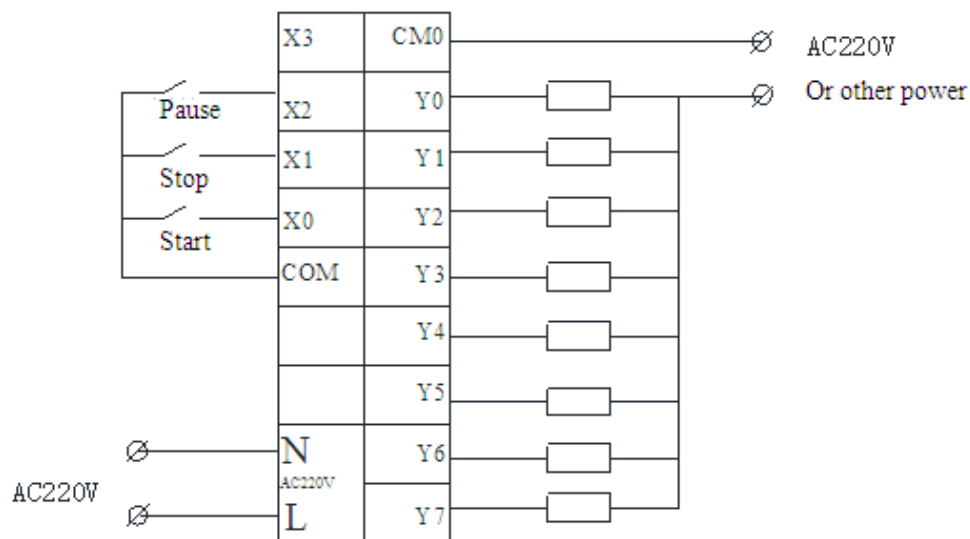
Dimension



Perforate Size

Terminal and panel

Terminal



1. COM: common input
2. X0: start signal, X1: stop signal, X2: pause signal
3. COM0: common output
4. Y0-Y7: 8 channels output (relay output 2A)
5. L,N: AC 220V, 50Hz

Panel



1. Display(4 digits): upper display shows the function code, and lower display shows the time and output.

2. 0-7 indicators: 0-7 channel output indicator

3.X,Y indicators: input and output indicator

4. : display the present working / select the programming mode

Press  for 3s: enter or exit programming mode

Press  short: switch function code ('tXXX' or 'dXXX')

5. / increase/decrease, set the parameter up/down '1', if press and hold, the parameter continuous increase/decrease.

6. : move the setting cursor/ confirm the parameter

Press and hold for 1.5s: enter or exit the setting mode.

Press short: move the setting cursor.

Function instruction:

Time setting and function code:

Time Setting				Output Setting			
Upper Display Function Code	Function Remark	Lower Display Setting	Setting Remark	Upper Display Function Code	Function Remark	Lower Display Setting	Setting Remark
tXX <u>0</u>	XX step time ‘0’: time unit 0.1s Range: 0-999.9s	<u>0010</u>	1s 10*0.1s=1s	dXX	XX step output	0001	Y0 output (please refer to the output table)
TXX <u>1</u>	‘1’:time unit 1s Range:0-9999s		10s 10*1s=10s				
tXX <u>2</u>	‘2’: 1min Range:0-9999min		10min 10*1min=10min				
tXX <u>3</u>	‘3’: cycle instruction	<u>0102</u>	01: first time to jump <u>02</u> : Start cycle from 02 step	dXX0	XX step output	0000	Endless cycle
				dXX <u>2</u>	XX step output, Jump times:2 (20000) Range:0-6	<u>0004</u>	cycle times: 20004
t0X <u>4</u>	‘4’ end instruction: The program will stop when execute this instruction			--			
t0X <u>5</u>	‘5’: hold instruction, The program will keep on the present state when execute the instruction			--			

1. Press  for 3s to enter the program mode, and the upper display will show function code(T000 or d00). Press it shortly to switch the function code(such as switch t000 to d00). Press , ,  to select and set the time and output.(The blinking digit can be modified.)

2. Press  for 1.5s to set the parameter, when the digit of lower display is blinking, press /
/ to set the time and output, after setting, press  for 1.5s to save the setting.

3. After all setting, press  for 3s to exit the programming mode, and the display will show the present working

Application Example

Y0 works for 5s, stops for 3s, then cycle 4 times

Y1 works for 5s, stops for 3s, then cycle 4 times

Return to 00 step and cycle endlessly

Step	Function Code	Setting	Remark	Description
00	t00 <u>1</u>	0005	Output time:1s*5=5s	Y0 works for 5s, stops for 3s, then cycle 4 times
	d00	000 <u>1</u>	Y0 outputs	
01	t01 <u>1</u>	0003	No output time:1s*3=3s	
	d01	0000	Y0 no output	
02	t02 <u>3</u>	01 <u>00</u>	First jump to 00 step and cycle	
	d02 <u>0</u>	0004	Cycle 4 times	
03	t03 <u>1</u>	0005	Output time:1s*5=5s	Y1 works for 5s, stops for 3s, then cycle 4 times
	d03	0002	Y1 outputs	
04	t04 <u>1</u>	0003	No output time:1s*3=3s	
	d04	0000	Y0 no output	
05	t05 <u>3</u>	020 <u>3</u>	Second jump to 03 step and cycle	
	d05 <u>0</u>	0004	Cycle 4 times	
06	t06 <u>3</u>	0300	Third jump to 00	Return to 00 step and cycle endlessly
	d06 <u>0</u>	0000	Cycle endlessly	

Output table

	Y0	Y1	Y2	Y3
XXX0	○	○	○	○
XXX1	●	○	○	○
XXX2	○	●	○	○
XXX3	●	●	○	○
XXX4	○	○	●	○
XXX5	●	○	●	○
XXX6	○	●	●	○
XXX7	●	●	●	○
XXX8	○	○	○	●
XXX9	●	○	○	●
XXXA	○	●	○	●
XXXB	●	●	○	●
XXXC	○	○	●	●
XXXD	●	○	●	●
XXXE	○	●	●	●
XXXF	●	●	●	●

○ -- without output

● -- output

	Y4	Y5	Y6	Y7
XX0X	○	○	○	○
XX1X	●	○	○	○
XX2X	○	●	○	○
XX3X	●	●	○	○
XX4X	○	○	●	○
XX5X	●	○	●	○
XX6X	○	●	●	○
XX7X	●	●	●	○
XX8X	○	○	○	●
XX9X	●	○	○	●
XXAX	○	●	○	●
XXBX	●	●	○	●
XXCX	○	○	●	●
XXDX	●	○	●	●
XXEX	○	●	●	●
XXFX	●	●	●	●

1 XHST-30 version Number: TH11

Contact information

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