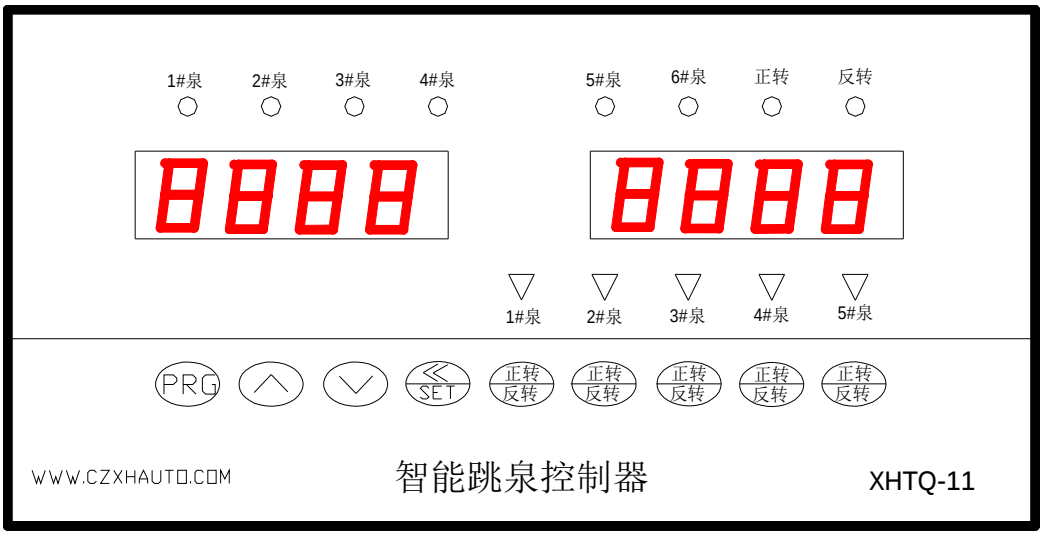
Changzhou Xionghua Tongtai Automation Equipment Co., Ltd

User's Guide
Intelligent Jumping Jet Fountain Controller
XHTQ-11

Feature

Intelligent jumping fountain controller connects to 6 stepper motor drivers. The controller will form vital water output. The length and output speed of water segments can be controlled to form jumping fountains. The controller is easy to operate, and easy to modify.

The description of the panel and terminal



panel instruction

a.left 4-digital :

①show the program NO. When operating ②show the date NO. when setting

b.right 4-digital show :

① show the time when operating②show the date value when setting

c. 1#fountain-6# fountain round indicator：indicate operating state

d. foreward,reverse indicator : indicator output state

e.[PRG]: press and hold PRG for 3 seconds ： step through or exit program mode.

f. [∧]和[∨]: date up/down or code selection

g.[《/SET]: confirm the setting/ move the setting cursor

Press the button and hold, the cursor will move between the left and right display

Press the button to confirm the function mode or the date value.

h.[foreward/reverse]: support manul starting the corresponding fountain controller,[《/SET] manually control the obverse/reverse of the corresponding 6# fountain controllers

Terminal Function

a. L、N : supply power AC220V，50Hz

b. X0、COM : connect the two terminal, the procedure will automatically run

X10、COM: after connecting X10、COM, X1、X2、X3、X4、X5、X6 will be able to realize the remote manul controlling 1#-6#fountain

c. 12V : 12V input into the step controller

d、Y1、Y11：connect with 1# fountain step controller

Y2、Y12: connect with 2# fountain step controller

Y3、Y13：connect with 3# fountain step controller

Y4、Y14：connect with 4# fountain step controller

Y5、Y15：connect with 5# fountain step controller

Y6、Y16：connect with 6# fountain step controller

Function Table

Function code		Function name	Date content	range	setting	Unit
LP-u		Running speed	Adapt to any speed of the step driver	0-9999	1000	Hz
LP-n		Rotation angle	From start position to end station (the position of the barrier chip retaining water) Step angle * setting value = rotation angle	1-2000	20	pulse
LP-b		Rectify pulse numbers	The barrier chip first time to return to the start position to correct the error	0-9999	2	pulse
LP-bb		Start	In first power-on, the controller locates the position of the barrier chip	0-9999	20	pulse
Stps		The numbers of water patterns	The number of the water pattern changes	60	6	nos
1# set	T 0	running time	The running time of the 1# program	0-999.9	20	1s
	C 0	Start time	the residence time of 1# program at start	0-999.9	3.0	0.1s
	P 0	End time	the residence time of 1# program at end	0-999.9	3.0	0.1s
	F 0	Output selection	Running point selection of 1# program	0-3F	3F	
2# set	T 1	Running time	The running time of the 2# program	0-999.9	10	1s
	C 1	Start time	the residence time of 2# program at start	0-999.9	3.0	0.1s
	P 1	End time	the residence time of 2# program at end	0-999.9	2.0	0.1s
	F 1	Output selection	Running point selection of 2# program	0-3F	2A	
3# set	T 2	Running time	The running time of the 3# program	0-999.9	10	1s
	C 2	Start time	the residence time of 3# program at start	0-999.9	3.0	0.1s
	P 2	End time	the residence time of 3# program at end	0-999.9	2.0	0.1s
	F 2	Output	Running point selection of 3# program	0-3F	15	
4# set	T 3	Running time	The running time of the 4 # program	0-999.9	10	1s
	C 3	Start time	The residence time of 4# program at start	0-999.9	2.0	0.1s
	P 3	End time	The residence time of 4# program at end	0-999.9	1.0	0.1s

	F 3	Output selection	Running point selection of 4# program	0-3F	3F	
5# set	T 4	Running time	The running time of the 5# program	0-999.9	10	1s
	C 4	Start time	the residence time of 5# program at start	0-999.9	2.0	0.1s
	P 4	End time	the residence time of 5# program at end	0-999.9	1.0	0.1s
	F 4	Output selection	Running point selection of 5# program	0-3F	2A	
6# set	T 5	Running time	The running time of the 6# program	0-999.9	10	1s
	C 5	Start time	the residence time of 6# program at start	0-999.9	2.0	0.1s
	P 5	End time	the residence time of 6# program at end	0-999.9	1.0	0.1s
	F 5	Output selection	Running point selection of 6# program	0-3F	15	
7# set	T 6	Running time	The running time of the 7# program	0-999.9		1s
	C 6	Start time	the residence time of 7# program at start	0-999.9		0.1s
	P 6	End time	the residence time of 7# program at end	0-999.9		0.1s
	F 6	Output selection	Running point selection of 7# program	0-3F		
8# set	T 7	Running time	The running time of the 8# program	0-999.9		1s
	C 7	Start time	the residence time of 8# program at start	0-999.9		0.1s
	P 7	End time	the residence time of 7# program at end	0-999.9		
	F 7	Output selection	Running point selection of 7# program	0-3F		
9# set	T8	Running time	The running time of the 9# program	0-999.9	0.1s	1s
	C8	Start time	the residence time of 9# program at start	0-999.9	0.1s	0.1s
	P8	End time	the residence time of 9# program at end	0-999.9	0.1s	0.1s
	F 8	Output selection	Running point selection of 9# program	0-3F	Xx3F	
10# set	T 9	Running time	The running time of the 10# program	0-999.9	2s	1s
	C 9	Start time	the residence time of 10# program at start	0-999.9	XXXX	0.1s
	P 9	End time	the residence time of 10# program at end	0-999.9	XXXX	0.1s
	F 9	Output selection	Running point selection of 10# program	0-3F	XX00	
11# set	T 10	Running time	The running time of the 11# program	0-999.9	3s	1s
	C 10	Start time	the residence time of 11# program at start	0-999.9	0.5s	0.1s
	P 10	End time	the residence time of 11# program at end	0-999.9	0.5s	0.1s
	F 10	Output selection	Running point selection of 11# program	0-3F	XX01	
12# set	T 11	Running time	The running time of the 12# program	0-999.9	3s	1s
	C 11	Start time	the residence time of 12# program at start	0-999.9	0.5s	0.1s
	P 11	End time	the residence time of 12# program at end	0-999.9	0.5s	0.1s
	F 11	Output selection	Running point selection of 12# program	0-3F	XX03	
13#	T 12	Running time	The running time of the 13# program	0-999.9	3s	1s

set	C 12	Start time	the residence time of 13# program at start	0-999.9	0.5s	0.1s
	P 12	End time	the residence time of 13# program at end	0-999.9	0.5s	0.1s
	F 12	Output selection	Running point selection of 13# program	0-3F	XX07	
14# set	T 13	Running time	The running time of the 14# program	0-999.9	3s	1s
	C 13	Start time	the residence time of 14# program at start	0-999.9	0.5s	0.1s
	P 13	End time	the residence time of 14# program at end	0-999.9	0.5s	0.1s
	F 13	Output selection	Running point selection of 14# program	0-3F	XX0F	
15# set	T 14	Running time	The running time of the 15# program	0-999.9	3s	1s
	C 14	Start time	the residence time of 15# program at start	0-999.9	0.5s	0.1s
	P14	End time	the residence time of 15# program at end	0-999.9	0.5s	0.1s
	F14	Output selection	Running point selection of 15# program	0-3F	XX1F	
16# set	T 15	Running time	The running time of the 16# program	0-999.9	3s	1s
	C 15	Start time	the residence time of 16# program at start	0-999.9	0.5s	0.1s
	P 15	End time	the residence time of 16# program at end	0-999.9	0.5s	0.1s
	F 15	Output selection	Running point selection of 16# program	0-3F	XX3F	
17# set	T 16	Running time	The running time of the 17# program	0-999.9	2s	1s
	C 16	Start time	the residence time of 17# program at start	0-999.9	XXXX	0.1s
	P 16	End time	the residence time of 17# program at end	0-999.9	XXXX	0.1s
	F 16	Output selection	Running point selection of 17# program	0-3F	XX00	
18# set	T 17	Running time	The running time of the 18# program	0-999.9	10s	1s
	C 17	Start time	the residence time of 18# program at start	0-999.9	0.5s	0.1s
	P 17	End time	the residence time of 18# program at end	0-999.9	1s	0.1s
	F 17	Output selection	Running point selection of 18# program	0-3F	XX3F	
19# set	T 18	Running time	The running time of the 19# program	0-999.9	2s	1s
	C 18	Start time	the residence time of 19# program at start	0-999.9	XXXX	0.1s
	P 18	End time	the residence time of 19# program at end	0-999.9	XXXX	0.1s
	F 18	Output selection	Running point selection of 19# program	0-3F	XX00	
20# set	T 19	Running time	The running time of the 20# program	0-999.9	10s	1s
	C 19	Start time	the residence time of 20# program at start	0-999.9	1s	0.1s
	P 19	End time	the residence time of 20# program at end	0-999.9	0.5s	0.1s
	F 19	Output selection	Running point selection of 20# program	0-3F	XX3F	

the rights and interests protecting function

code	function	range	unit	remark
T 59	Enter the time password	0－9999	－	Enter 4321,then set the dates, after setting, change the password
T 60	Set the halt time	0－9999	hour	the value in excess of 6000. the timing halt function will be invalid
C 60	Actual running time	0-999.9	hour	Actual time means that stop running at halt time but it can be operated by hand

the steps of date setting

step	operation	display	remark
			Status display when power on
1	PRG Press and hold 3s	Lp-u	**Running speed**
2	SET Press and hold 1.5s	1000	**Set the running speed**
3	∧ and ∨ 》/SET	0500	**Set the running speed**
4	SET Press and hold 1.5s	**Lp-u**	**Store the dates of the running speed**
5	∧ and∨ 》/SET	Lp-n	Select the function codes and the dates need to be changed

Installation

External size 150*75*130

Installation tye : mount on the panel of the cabinet

Perforate size : 150*75

Typical diagram