

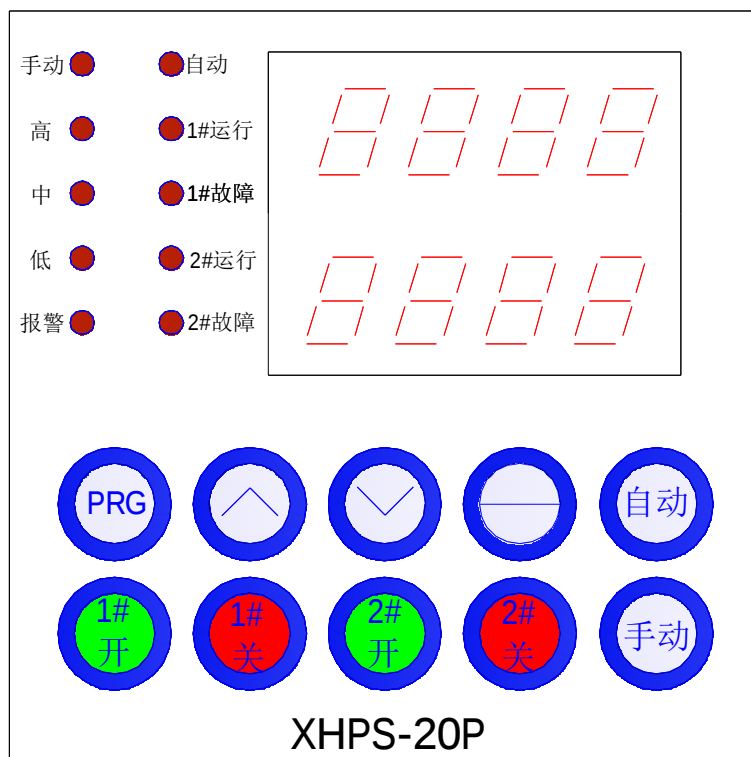
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User's Guide Water Supply and Drainage Controller XHPS-20P

Feature

- l XHPS-20P the controller is designed for water supply and drainage . It is small in size and visual to display,easy to operate. With professional software knowledge, the user can modify the parameter directly to adapt to the different requirements of the work set.
- l 5 input points ; high level,median level ,low level and 2 fault signal
- l 4 output points : control the pump and output the operating signal, the contacts load of the relay is 250V2A
- l The program of the controller has the automatic removing rust function, the rotation working time of the pumps can be changed,automatically switch to another pump as one pump breakdown,level signal delay function . The ordinary control boxes have no these functions
- l Memory storage (10years) / mechanical life
- l The liquid level detection adopts the low voltage sampling, which avoid the oxidation of the strong voltage signal to level switch contacts. This can prolong the using life of the float and ensure the reliable of the whole equipment.



XHPS-20P panel picture

1.Panel description

A. digital display :

① upper display shows the code of the internal timer at work mode and at the setting mode ,the left digit is sign bit and the middle two digits are the code bits, the right digit is the time unit (0-0.1s,1-1s,2-1min).

② lower display shows the operating time at work mode and the date at setting mode

B. indicator : high,median,low

indicate the water level

manul, automatic

indicate the current work mode

alarm

indicate the current fault of the pumps or the level sensor

- 1# operate/fault indicate the current 1# pump operating or fault
 2# operate/fault indicate the current 2# pump operating or fault

C. [PRG] : enter or exit programming mode

Press and hold on 3s to enter or exit programming mode.

D. $\wedge/\vee$ increase/decrease : set the date up/down “1”.

E. [SET/ $\llcorner$] : move the setting cursor/confirm the setting

F. [automatic] : enter the automation control mode

[manul] : enter the manul control mode

G. 1# ON/OFF : directly open or close 1# pump in manul control mode

F. 2# ON/OFF : directly open or close 2# pump in manul control mode

2.Terminal function

Name	No.	function	Name	No.	function
COM	9	Common input	COM0	6	Common output
X0	16	Low level input	Y0	5	Output control 1#pump
X1	15	Median level input	Y1	4	Output control 1#pump
X2	14	High level input	L、N	7、8	Input terminal of power supply 220V/AC 50Hz
X3	13	1#pump fault input			
X4	12	2# pump fault input			

3.Program and function table

1. Press [PRG] and hold on 3s to enter programming mode, and the upper display will show ‘POOO’, the lower display will show ‘XXXX’ value, then press [PRG] and hold on 3s to exit programming.

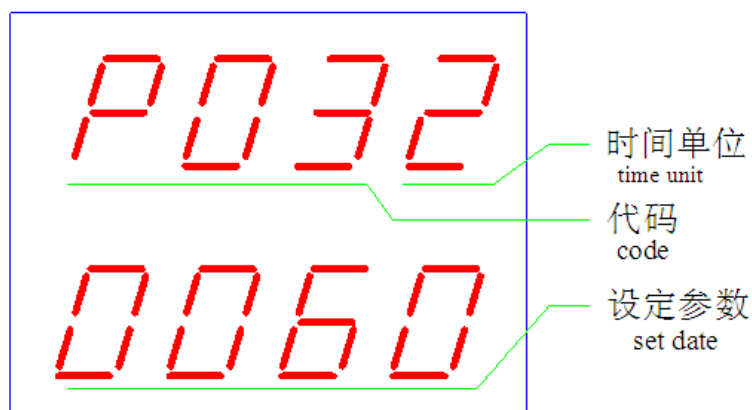
2. After entering programming mode,the upper display shows ‘POOO’,and the last digit is blinking,press [$\wedge$]/[$\vee$] or [SET/ $\llcorner$] to select the function codes. After selecting the function code,press [SET/ $\llcorner$] for 3s , the last digit of the lower display will blink which can[PRG] be changed.

3. In accordance with above step 2, press and hold on 3s to return to normal working mode.

Please refer to the function table.

4.Example

Upper display : show the internal timer code in normal working mode.



At the setting mode ,the left digit is sign bit and the middle two digits are the code bits, the right digit is the time unit (0-0.1s,1-1s,2-1min). Above value means the pumps will work for ‘60 minutes’ in turn.

Function Table

Function Name	Code	Timer	Range	unit	Factory Default	Remark
Input the delay time of high level	P00	1	0—29999	0.1s	0 0030	Signal delay
Input delay time of median level	P01	2	0—29999	0.1s	0 0030	Signal delay
Input delay time of low level	P02	3	0—29999	0.1s	0 0030	Signal delay
the work time of pump in turn	P03	4	0-29999	1 min	2 0120	‘0’value - one pump works all the time.
Continuous work of one pump can’t reach the set value, delay to start the additional pump	P04	5	0—29999	1 min	2 0030	‘0’value - do not start the additional pump
Delay time of antirust	P05	6	0—29999	1 min	2 4320	‘0’value - with no antirust function
Work time of antirust	P06	7	0—29999	0.1s	0 0050	‘0’value - with no antirust function
Work type	P09		0-1	-		0-water supply mode: Open pump at median level, Close pump at high level. (open two pumps at low level) 1- drainage mode : Open pump at median level, Close pump at low level. (open two pumps at high level)
Input point NO/NC	P12		0-255	-	0	Property set of the input point
The lower limit of the timer No.	P13		0—10	-	3	Work display of timer
The upper limit of the timer No.	P14		0—10		6	Work display
Fault masking	P15		0—255		0	‘1’value - fault masking

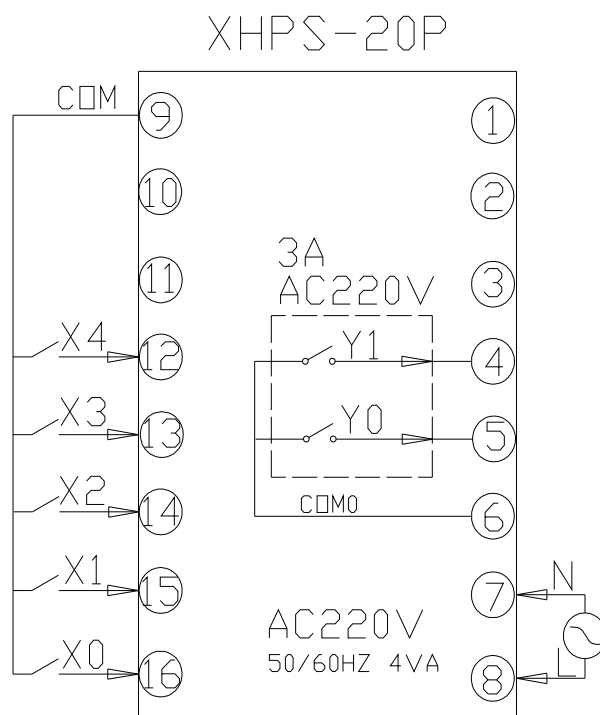
External dimension

96（width）*96（height）*76（depth）

Perforate dimension

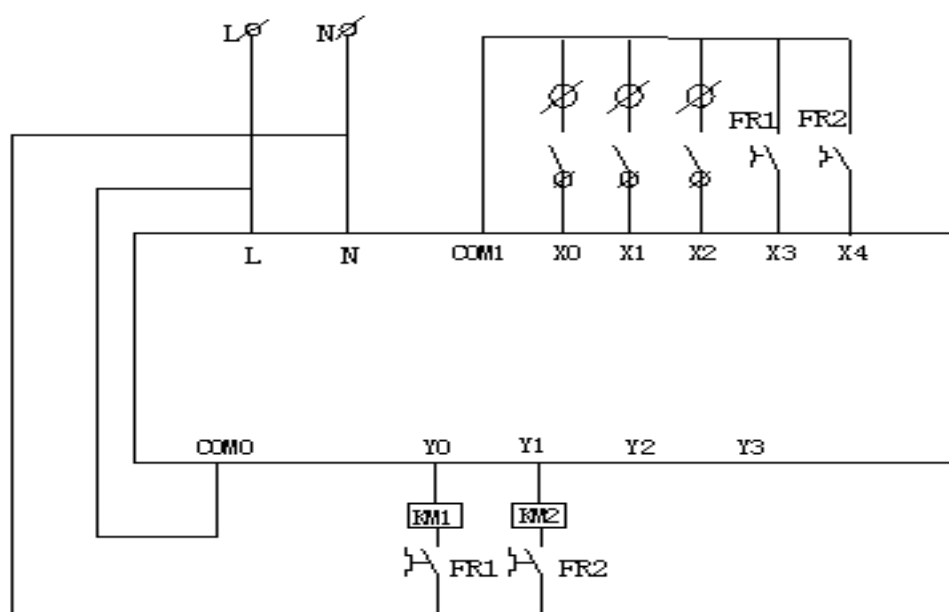
91*91

External wiring diagram and application circuit diagram



XHPS-20 External Wiring Diagram

Electrical Principle Chart



Application Circuit Diagram