

## Heating and constant temperature control thermostat temperature controller digital intelligent temperature control XH-1207 -50 to 110



### Product Description

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#### Digital thermostat manual XH-W1207

##### First, the product information

The thermostat of the products take the advanced microelectronic technology, LED digital display, take the strengths and experience of domestic and foreign microcontroller thermostat involved to provide the best solutions to meet customer demand premise is simple and practical, is a products of high economic models cost-effective, the small integrated intelligent control, cooling and heating mode is free to convert, delay back Chake set, especially suitable for a variety of chilled, frozen, heated occasions.

Temperature control range:  $-50 \sim 110 \text{ }^{\circ}\text{C}$

Resolution:  $-9.9$  to  $99.9$   $0.1 \text{ }^{\circ}\text{C}$  other temperatures paragraph  $1 \text{ }^{\circ}\text{C}$

Temperature measurement accuracy:  $\pm 1 \text{ }^{\circ}\text{C}$

Refresh rate: 1S

Input power:  $\text{DC}12 \text{ V} \pm 10\%$

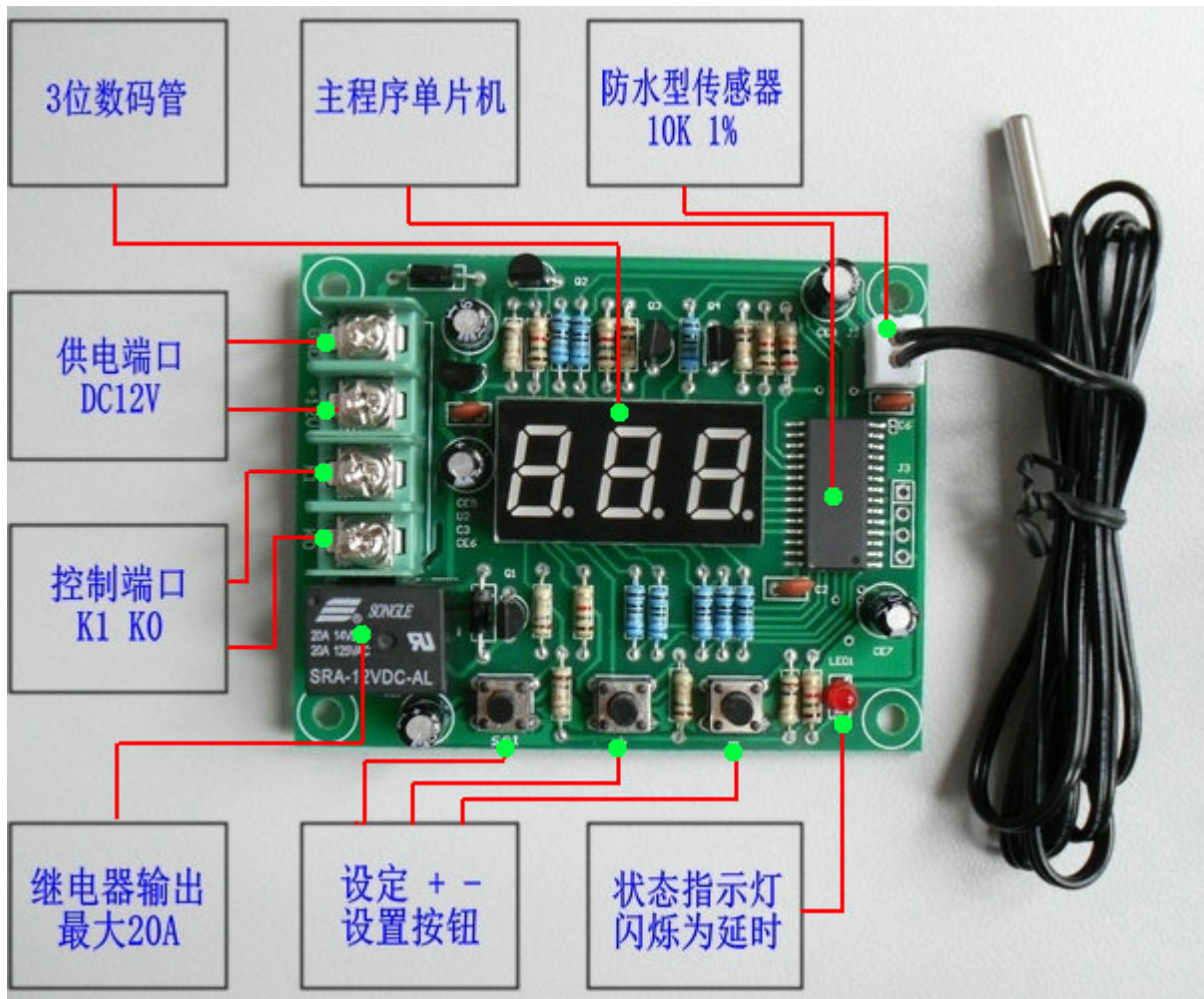
Measuring input: NTC (10K 0.5%) waterproof sensor

Output: 1 relay output capacity 220V5A 125 V10A 1 4V below 20 A

Environmental requirements:  $-10 \sim 60 \text{ }^{\circ}\text{C}$  Humidity 20% -85%

Specifications Dimensions: 75 \* 60mm (the mounting holes M3.5 diagonal 84mm)

Total power consumption: Static current:  $\leq 30\text{MA}$  pull current:  $\leq 75\text{MA}$



Indicator: flashes to indicate cooling or heating delay, steady relay is already closed

Product internal parameter descriptions and settings

Panel buttons: set (set key) + (up key) - (down key)

1, temperature control point setting method:

Under normal operation, press the set key, shows the number of beats, then display the value of the temperature setting: Press the + or - key to increase or decrease the temperature setting. Long press + or - to quickly increase or decrease. No keystrokes automatically after 5 seconds to save the settings and return to normal operation.

2, the cooling and heating mode selection method

Set key set key 5 seconds to enter the menu screen display P0 + can enter the set - you can switch to the P0, P1, P2, P3, P4, P5, and this time show the main menu, press again to set change the setting to 10 seconds automatically identify and return to normal operation

**Parameter function**

P0 refrigeration, heating mode

Cooling mode: When the temperature measurement value  $\geq$  temperature set point, the relay pull cooler start; refrigeration relay is switched off when the temperature measurement value  $<$  temperature set point - hysteresis, refrigeration is turned off.

Heating mode: When the temperature measurements  $>$  Temperature set point + hysteresis, the relay is switched off, the heating is turned off; relay is energized when the temperature measurement value  $\leq$  temperature set point, the heating, the heating

starts.

#### P1 hysteresis setting

Cooling mode: When the temperature measurement value  $\geq$  set value, the relay, refrigeration starts;  $\langle$ setting - back to the difference of the temperature measurement, the relay is switched off, the cooler off. For example, set the value of 20 ° C environment for 30 ° C, back to poor set 2 ° C on power relay closes cooler start, when refrigeration to 17.9 °C, relays disconnect the cooler off, this time due to the cooler been disconnected temperature began to rise when the rebound to set the value of 20 ° C, the relay is closed refrigeration start again, and so forth loop to control the temperature not higher than 20 ° C

Heating mode: When the temperature measurement value  $\leq$  settings and relay heater starts; When the temperature measurement value  $>$  settings + return difference, the relay is switched off, the heater is turned off. For example, set the value of 30 ° C environment for 20 ° C, back to poor set 2 ° C, the heater relay is closed after power-on start relay to turn off the heater off when heated to 32.1 °C, this time due to heater has disconnected the temperature begins to fall immediately down to set the value of 30 ° C, the relay closes heater started again, and so forth cycle to control the temperature of not less than 30 ° C.

#### P2 minimum temperature set lower limits:

Limited to the minimum temperature set point of the thermostat control setting range. For example: Set the -10 temperature set point minimum can only be set to -10 if you want to expand the temperature range of the temperature set point, you need to adjust the upper and lower setting.

#### P3 highest temperature setting on the limit:

Limit the maximum temperature set point control thermostat setting range. For example: set to 60 temperature set point of the highest can only be set to 60 if you want to expand the temperature range of the temperature set point, you need to adjust the upper and lower setting.

#### P4 temperature correction

This feature can be used when the measurement of the temperature deviation and standard temperature correction, the corrected temperature = temperature + correction value before correction

#### P5 delay start time: minutes

Cooling mode: the first power, current temperature  $\geq$  set value, the cooler will not immediately start cooling, need to run to set the delay time to start.

Heating mode: the first energized, and if the current temperature is  $\leq$  the set value, the heater will not immediately start heating, need to run the set delay time to start.

The down time between the start of the refrigeration or heater between two greater than the cooler immediately start the delayed start time setting;

Refrigeration or heater adjacent downtime between the two starts after a lapse of less than delay start time setting cooler, cooler start need to run the finished set delay start time setting the device to start. The delay time from stop instantly.

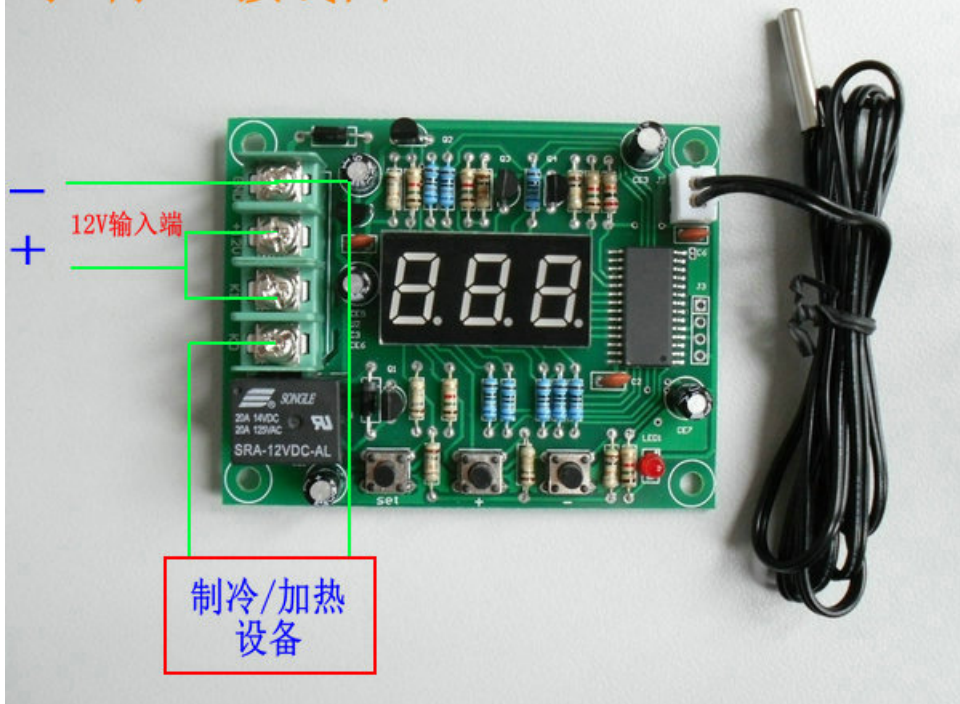
Setting the table

Code	Code Description	Setting range	The factory setting
P0	Cooling / Heating	C / H	C
P1	Hysteresis settings	1-15	2
P2	Minimum set under the limit	-50	-50
P3	Highest setting the upper limit	110	110
P4	Temperature correction	-7 To 7 degrees	0
P5	Delay start time	0-7 minutes	0



Here thermostat, electrical connection diagram

## 控制12V接线图



## 控制其他电压接线图

