

Features:

Cooling or heating operation mode can be selected.

Set the maximum/minimum upper limit temperature to avoid accidents.

Automatically start cooling or heating thermostat.

Temperature calibration, the temperature can be calibrated as needed.

When the high temperature alarms, when the temperature reaches the set temperature, the controller will alarm.

Specifications:

Material: Electronic components

Color: Black

Temperature control range: -50~120 degrees Celsius

DIMENSIONS: 79X43X26 MM

Package includes:

1 x Digital Thermostat Temperature Alarm Controller Sensor

How to use:

- Connect the power supply and equipment, you can supply power to the controller, at this time the display is to measure the temperature, press the SET button once, the display temperature flashes, press +/- to set the desired temperature (press and hold +/- to quickly rise and fall) After the setting is completed, press SET to confirm the return, at this time, the controller will automatically perform the relay on/off according to the setting! The output of the thermostat is a 20A relay to meet various high-power loads, and the control circuit is connected to supply power to the thermostat, and the display screen displays the ambient temperature at this time.

Indicator light, digital tube status description

- Indicator: Flashing indicates cooling or heating start delay, solid indicates that the relay is closed
- Digital tube: LL is open to the sensor, please connect the sensor according to the instructions, HH is out of the

measuring range, the thermostat will forcibly disconnect the relay, and the --- is a high temperature alarm

Parameter function description

Press and hold SET for 5 seconds to enter the main menu settings, press +/- to switch P0... P6, press and hold SET or 10 seconds without buttons, the action controller will automatically confirm the return.

P0 refrigeration, heating mode

- Press and hold SET for 5 seconds to display P0, press SET once to set the working mode, press +/- to switch [H is heating mode] [C is cooling mode] press SET once to return, press and hold SET or 10 seconds without buttons, the action controller will automatically confirm the completion.
- Refrigeration mode: When the temperature measurement \geq the temperature set point, the refrigeration relay engages and the cooler starts, and when the temperature measurement \leq the temperature setpoint-return

n difference, the refrigeration relay is disconnected and the cooler is turned off.

- In heating mode: when the temperature measurement \leq the temperature set point, the heating relay engages and the heater starts, and when the temperature measurement value \geq the temperature set point + back difference, the heating relay is disconnected and the heater is turned off.

P1 Differential setting

- Press and hold SET for 5 seconds to display P0, press +/- to switch to P1, press SET once to set the return difference, press +/- to set the return difference to 0.1-15, press and hold SET once to return, press and hold SET or 10 seconds without buttons, the controller will automatically confirm the completion.
- In refrigeration mode, when the temperature measurement \geq the set value, the relay engages and the cooler starts, and when the temperature measurement \leq the setpoint

nt-return difference, the relay is disconnected and the cooler is turned off.

- For example, the environment is 30 °C, the setting value is 25 °C, the return difference is set to 2 °C, the relay closes the cooler after power-on, when the refrigeration reaches 23 °C, the relay disconnects the cooler and closes, at this time, because the cooler has been disconnected, the temperature begins to rise, when it rises to the set value of 25 °C, the relay closes the cooler and starts again, so that the repeated cycle control temperature is not higher than 25 °C.
- In heating mode: when the temperature measurement value \leq the set value, the relay is engaged and the heater starts, and when the temperature measurement value \geq the set value + return difference value, the relay is disconnected and the heater is turned off.
- For example, the environment is 10 °C, the setting value is 25 °C, the return difference

nce is set to 2 °C, the relay closed heater starts after power-on, when the heating reaches 27 °C, the relay disconnects the heater and closes, at this time, because the heater has been disconnected, the temperature begins to drop, when it drops to the set value of 25 °C, the relay closed heater starts again, so that the repeated cycle control temperature is not less than 25 °C.

P2 maximum temperature is set at an upper limit

- In order to avoid the danger of over-setting temperature caused by misoperation by others, this thermostat has the function of maximum setting limit, which limits the setting range of the maximum temperature setting point controlled by the thermostat.
- Press and hold SET for 5 seconds to display P0, press +/- to switch to P2, press SET once to set the maximum upper limit, press +/- to set the maximum settable temperature, the maximum value is 110, press and h

old SET once to return, press and hold SET or 10 seconds without buttons. The action controller will automatically confirm the completion.

- For example, if you set the temperature set point to 60, you can only set the temperature set point to a maximum of 60°C. If you want the temperature set point to be higher and the temperature range is expanded, you need to adjust the upper set value first.

P3 Lower limit for minimum temperature setting

- In order to avoid ice jamming caused by the low temperature caused by misoperation by others, this thermostat has the function of minimum setting upper and lower limits, which limits the setting range of the minimum temperature setting point controlled by the thermostat.

- Press and hold SET for 5 seconds to display P0, press +/- to switch to P3, press SET once to set the minimum lower limit, press +/- to set the minimum settable temperature, the minimum value is -50, press and hold SET once to return, press and hold SET for 10 seconds without buttons to automatically confirm the completion of the action controller.
- For example, if you set the temperature set point to 2, you can only set the temperature set point to a minimum of 2°C. If you want the temperature set point to be lower and the temperature range is expanded, you need to adjust the lower set value first.

P4 temperature correction

- When there is a deviation between the measured temperature and the standard temperature or due to the special needs of the user's hardware, this function can be used to calibrate, the corrected temperature = the temperature before the correction + the

correction value The effective range is -7.0 ~7.0.

- Press and hold SET for 5 seconds to display P0, press +/- to switch to P4, press SET once to correct, press +/- to set the correction value, press and hold SET once to return, press and hold SET for 10 seconds without buttons, the action controller will automatically confirm the completion.
- For example, the normal display is 25 degrees, the temperature correction is 0 to 2.5 degrees, the temperature correction is 1.5 to 26.5 degrees, and the temperature correction is -1.5 to 23.5.

P5 Delayed Start Time (in minutes)

- When the refrigerator or heater needs to delay the operation, the delay function can be turned on to protect the life of the equipment.
- Press and hold SET for 5 seconds to display P0, press +/- to switch to P5, press SET once to set the delay start time in minutes,

press +/- to set 0-10 minutes, press and hold SET once to return, press and hold SET for 10 seconds or 10 seconds without buttons, the controller will automatically confirm the completion

- Refrigeration mode: If the current temperature \geq the set value for the first time, the cooler will not start refrigeration immediately, and needs to run the set delay time before starting.
- Heating mode: If the current temperature \leq the set value for the first time, the heater will not start heating immediately, and it needs to run the set delay time before starting.
- The chiller starts immediately when the downtime between two adjacent starts of the chiller or heater is greater than the set point of the delayed start time.
- If the shutdown interval between two adjacent starts of the chiller or heater is less than the set value of the delayed start time

e, the equipment can only be started after the set delayed start time of the chiller can be run again. The delay time is calculated from the moment of downtime.

- For example, the delay is set to 5 minutes in the refrigeration state, the refrigerator starts the delay after the start-up, the refrigerator is turned on after 5 minutes, the refrigerator stops when the required temperature is reached, and the timing starts at this time, and the next refrigerator starts to work immediately when the timing is completed, and the unfinished timing can only work when the timing is over, and the LED indicator flashes during the delay.
- When the delayed start is set to 0, the delay function is disabled.

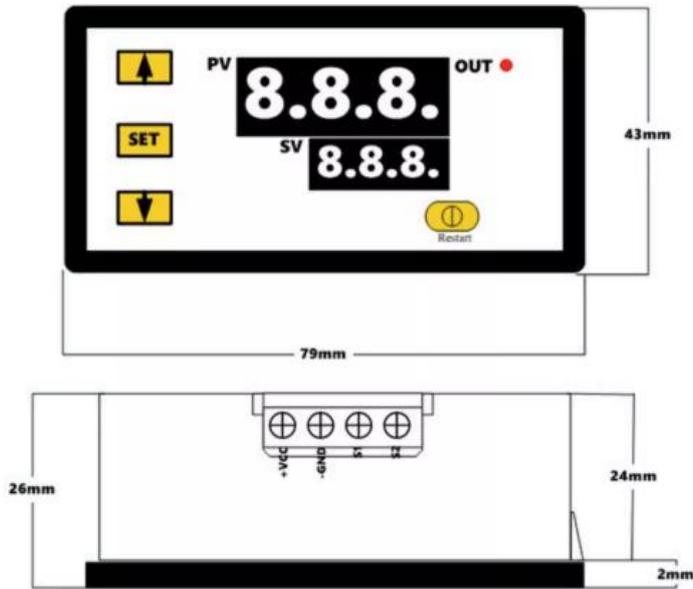
How to save your settings

- **If you want to save the set data, set the P7 to ON if the power is not interrupted after setting the temperature, so that**

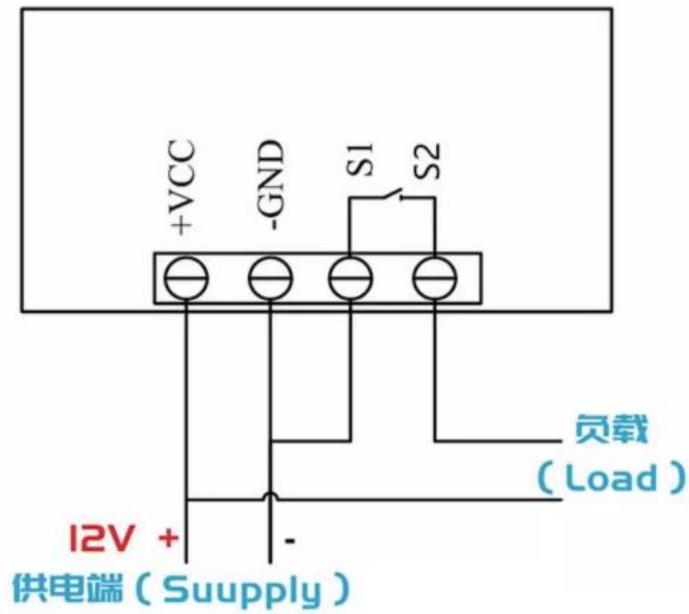
the last setting will be retained no matter how the power is off.

Factory reset

- Due to some human reasons caused by the internal settings of the thermostat is chaotic, one by one to set it is very time-consuming, at this time you can use this function to restore the factory settings, the specific method is: in the shutdown state, press and hold the + and - buttons at the same time, and then turn on, all the above parameters are restored to the factory set value.



I2V接线方式(Connecting Mode)



110-220V接线方式(Connecting Mode)

