

W3230manual

Name; high precision digital temperature controller

Temperature control range: -55~120℃

Resolution: -9.9℃~99.9℃

Temperature measurement accuracy: 0.1℃

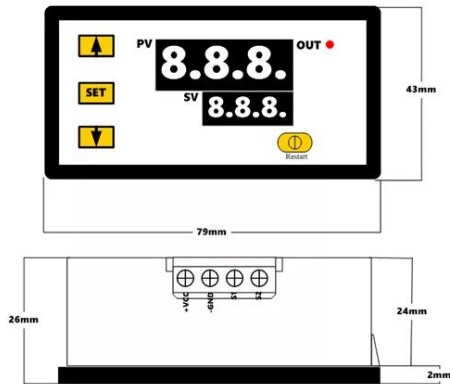
Refresh rate: about 0.5S

Input power: DC5V/12V/24V AV110-220V

Measurement input: 1 meter NTC (10K waterproof metal probe)

Output: all the way 10A relay

Specifications and dimensions: shape 79*43mm opening 76*39mm



Instructions:

After connecting the power supply and equipment, you can supply power to the controller. At this time, it displays the measured temperature. Press the SET button once, and the temperature on the display will flash. Press +- to

set the desired temperature (press and hold +- to quickly rise and fall) to set. After completion, press SET to confirm and return. At this time, the controller automatically executes the relay on and off according to the setting.

Parameter function description

Press and hold SET for 5 seconds to enter the main menu setting, press +- to switch between P0...P6, short press Restart or the controller will automatically confirm and return if there is no button action for 10 seconds.

P0 cooling, heating mode

In cooling mode: when the temperature measurement value $\geq$ the temperature set point, the cooling relay is closed and the refrigerator is started; when the temperature measurement value is less than or equal to the temperature set point - hysteresis, the cooling relay is disconnected and the refrigerator is turned off.

In heating mode: when the temperature measurement value is less than or equal to the temperature set point, the heating relay is closed and the heater is started; when the temperature measurement value is greater than or equal to the temperature set point + hysteresis, the heating relay is disconnected and the heater is turned off.

P1 Hysteresis setting

For example, the environment is 30℃, the set value is 25℃, and the hysteresis is set to 2℃. After the power is turned on, the relay closes and the refrigerator starts. When the temperature reaches 23℃, the relay disconnects and the refrigerator is turned off. At this time, the refrigerator has been disconnected. The open temperature starts to rise. When it rises to the set value of 25℃, the relay closes and the refrigerator starts again, so that the repeated cycle controls the temperature not to be higher than 25℃.

For example, the environment is 10℃, the set value is 25℃, and the hysteresis is set to 2℃. After the power is turned on, the relay closes the heater and starts. When the temperature

reaches 27°C, the relay turns off the heater and turns off. At this time, the heater has been turned off. The open temperature begins to drop, and when it drops to the set value of 25°C, the relay closes the heater and starts again, so that the repeated cycle controls the temperature not to be lower than 25°C.

P2: Maximum temperature setting upper limit

For example: when P2 is set to 100, the maximum temperature setting can only be set to 100°C. If the temperature setting point is to be higher and the temperature range is expanded, the upper limit setting value needs to be adjusted first.

P3: Minimum temperature setting lower limit

For example: when P3 is set to 2, the minimum temperature setting can only be set to 2°C. If you want to expand the temperature range with a lower temperature set point, you need to adjust the set value of the lower limit first.

P4: Temperature Correction

For example, the normal display is 25 degrees; when the temperature correction is 0, it displays 25 degrees; when the temperature correction is 1.5, it displays 26.5 degrees; when the temperature correction is -1.5, it displays 23.5.

P5: Delay start time (unit: minutes)

When there is a need for a delay in the work of the refrigerator or heater, 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 unit is minutes, press +/- to set 0-10 minutes, press SET once to return after completion, short press Restart or 10 seconds No button action controller automatically confirms completion.

P6 temperature alarm setting

Find the corresponding "P6" code, then press "▲" or "▼" to adjust the parameters, and then press the "Set" key to exit

P7: Data Lock

After setting the temperature, set P7 to ON when the power is not turned off, and the setting parameters cannot be changed after setting.

P8: Factory reset

In the shutdown state, press and hold the + and - buttons at the same time, then turn it on, and all the above parameters will be restored to the factory default values.

Note: 12V/24V/110-220V wiring method is the same, but 12V/24V need to distinguish between positive and negative.

