W3230 Manual

Name：High-precision digital display thermostat

Temperature Control Range: -55~120℃

Resolution: -9.9℃~99.9℃

Temperature Measurement Precision: 0.1℃

Refresh Frequency: About 0.5S

Input Power Supply: DC 12V/AC 110-220V (Please note the model number required for purchase)

Measurement Input: 1m NTC (10K waterproof metal probe)

Specification Size: shape 79*43mm opening 76*39mm

P0	Cooling/Heating
P1	Temperature difference setting, 0.1-30 degrees Celsius
P2	Maximum temperature setting, upper limit 120℃
P3	Minimum temperature setting, lower limit -55℃
P4	Temperature calibration
P5	Delayed start time (unit: minutes) 0-10min
P6	Alarm temperature setting -55~120℃
P7	Data lock function ON/OFF
P8	Restore Factory Settings

Usage:

Connect the power supply and equipment, you can power supply for the controller, this time the display for the measurement of temperature, press the SET key once, the display temperature flashes, press + - to set the required temperature (press and hold + - can be quickly raised and lowered) set the completion of the confirmation of the return of the SET, at this time the controller according to the setting of the automatic implementation of the relay on and off.

Parameter Function Description

Long press SET for 5 seconds to enter the main menu setting, press +- to switch P0...P6, short press Restart or 10 seconds without key action controller automatically confirms the return. P6, short press Restart or 10 seconds without key action controller automatically confirms the return.

P0: Cooling, Heating Mode

In refrigeration mode: when the temperature measurement value is ≥ temperature set point, the refrigeration relay is absorbed and the chiller starts; when the temperature measurement value is ≤ temperature set point - return difference, the refrigeration relay is disconnected and the chiller switches off.

In heating mode: when the temperature measurement value ≤ temperature set point, the heating relay is absorbed and the heater starts; when the temperature measurement value ≥ temperature set point + return difference, the heating relay is disconnected and the heater switches off.

P1: Tolerance Setting

For example, the environment for 30 ℃ set value of 25 ℃, the return difference is set to 2 ℃, after power on the relay closure chiller start, when the cooling to 23 ℃, the relay disconnect chiller closed, at this time due to the chiller has been disconnected the temperature began to rise, when it rises to the set value of 25 ℃, the relay closure chiller start again, and so on repeated cycles to control the temperature is not higher than 25 ℃.

For example, the environment is 10 ℃ set value of 25 ℃, the return difference is set to 2 ℃, after power on the relay closure heater start, when heated to 27 ℃, the relay breaks the heater off, at this time, because the heater has been disconnected the temperature began to fall, when the lower down to the set value of 25 ℃, the relay closure heater start again, and so on repeated cycles to control the temperature is not less than 25 ℃.

P2: Maximum Temperature Setting Limit

For example, if P2 is set to 100, the temperature setting can only be set up to 100℃. If you want the temperature set point to be higher and the temperature range to be extended, you need to adjust the upper limit setting first.

P3: Lower Limit of Minimum Temperature Setting

For example, if P3 is set to 2, the temperature setting can only be set as low as 2℃. If you want the temperature set point to be lower and the temperature range to be extended, you need to adjust the lower limit setting first.

P4: Temperature Correction

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

P5: Delayed Start Time (in minutes)

When the chiller or heater work with delay needs, you can open the delay function to protect the equipment life.

Long press SET 5 seconds to display P0, press + - switch to P5, press SET once to set the delay start time unit is minutes, press + - set 0-10 minutes, after completion, press SET once to return, short press Restart or 10 seconds without key action controller automatically confirms completion.

P6: Temperature Alarm Setting

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

P7: Data Lock

Set P7 to ON without disconnecting the power after setting the temperature, and the setting parameters cannot be changed after setting.

P8: Restore Factory Settings

In the off state, press and hold the + and - buttons at the same time, and then switch on the power, all the above parameters are restored to the factory-set values.