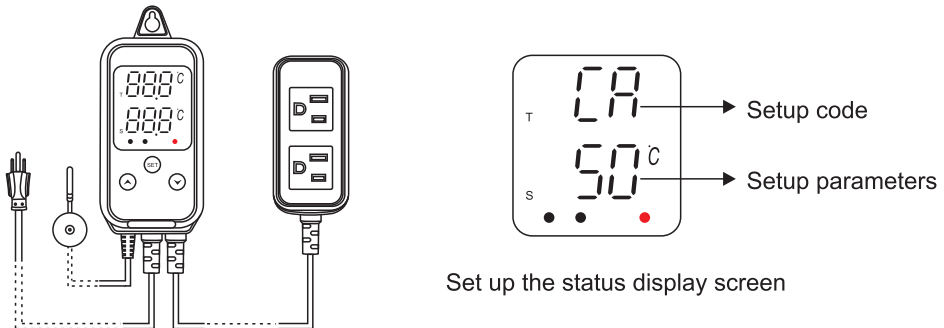# Microcomputer Temperature Controller

Product Instructions for MEISAL-S30B

First of all, thank you for purchasing Shenzhen "MEISAL" microcomputer temperature controller. MEISAL-S30B is a single heating product, which is easy to operate. It can be used for reptiles and pets breeding and hatching, barbecuing, oven, turtle breeding, greenhouse temperature control, fish tank heating, fermentation, germination and other applications of heating environment control. (If you have any good suggestions and opinions on our products, please contact us. We will improve the product, so as to provide you with satisfactory service. If you feel very satisfied with our products, please tell your friends. Your affirmation is the greatest recognition for us, thank you!)

1、Technical Parameters:

1.Working voltage range: AC100V ~ AC250V±10%50/60HZ;
Power consumption of the machine: ≤3W;
2.Standby function: ≤0.5W;
3.Temperature control range: -22℉~230℉(−30−110℃);
4.Control accuracy: 0.5℉(0.1℃)
Temperature return difference: 1~20℉(0.2-15℃)adjustable;
5.Temperature sensor: NTC77℉=10K B3435 ±1%(1.5m in length)
6.Power cord: 1.5m in length
7.Relay:10A/AC220V*2;
8.Working environment temperature: -30℉-150℉, and Humidity, 90%RH frost-free.

2、Schematic diagram of thermostat:

Setup code
Setup parameters

Set up the status display screen

3、Key operation instructions:

1. Power on with full display for 2second (the monitor will show all the lights).
2. SET key: that is, the SET key, press the Set key for 3 seconds to enter the program menu code mode, which shows the code ⊨S (In the setting state, long press 3 seconds to exit the setting state). Continue to short press the SET key for circular selection parameter code ⊨S-CA (the parameter code table is attached). If you enter a code to adjust the parameters, when the code appears, please press the ▲ key or ▼ key to change to the required value and short press SET key to enter the next parameter setting. (Long press the SET key for 3 seconds to exit the setting state or exit the setting state without any operation for 10 seconds)
3.▲ Key or ▼ key: up or down adjustment parameter key, and long press to continuously adjust parameters
4. Unit conversion (Press ▲ key and ▼ key at the same time in the normal display interface for 3seconds to realize the temperature unit conversion)

4、Temperature controller parameter Settings:

⊨S control temperature setting: Enter the parameter menu code mode, select the code TS, press ▲ key or ▼ key to change to the required value, and it will be automatically saved after 3 seconds. (Hold the ▲ or ▼ key for 2

seconds to quickly adjust the value).

HD heating return difference: ⱵS=25℃.HD=2℃. When the controller detects that the temperature is < (25-2), the heating function is started. When the temperature is >=25, the heating function is stopped.

HA high-temperature alarm temperature setting: When the device detects the temperature is >HA, the device will generate a high-temperature alarm test, and the display will display the HA and the temperature values alternately (for the high temperature alarm value cannot be lower than ⱵS, the parameter will be quickly adjusted by 1 ° C step by step).

LA low-temperature alarm temperature setting: When the device detects the temperature is<LA, the device will generate a low-temperature alarm test, and the display will display LA and the temperature values alternately (for the low temperature alarm value cannot be higher than ⱵS, the parameter will be quickly adjusted by 1 ° C step by step).

CA calibration temperature setting: When there is a deviation between the controller test temperature and the actual temperature, you can calibrate it through this parameter. For example, when the controller detects the temperature is 30 ° C, and your actual temperature is only 28 ° C, then you can set the CA to -2 ° C.

5、**Parameter code table:**

Menu code (℃)	Code explanation	Range	Ex-factory value/unit
ⱵS	Controlling temperature	Sets the temperature value to be controlled (−30−−110℃)	25℃
HD	Heating return difference temperature	Set the temperature return difference (0. 2−15)	2℃
HA	High temperature warning	ⱵS˜110℃	110℃
LA	Low temperature warning	-30℃˜ⱵS	-30℃
CA	Calibration temperature	-10℃--+10℃	0℃

Menu code (℉)	Code explanation	Range	Ex-factory value/unit
ⱵS	Controlling temperature	-22--230℉	75℉
HD	Heating return difference temperature	1--30℉	3℉
HA	High temperature alarm	ⱵS˜230℉	230℉
LA	Low temperature alarm	-22℉˜ⱵS	-22℉
CA	Calibration temperature	-10℉--+15℉	0℉

6、**Fault prompt:**

When the sensor is shorted or detects that the ambient temperature is higher than 120℃ of temperature upper limit, HHH is displayed and the output load is turned off.

When the sensor opens the circuit or detects that the ambient temperature is lower than-40℃ of the lower limit temperature, LLL is displayed and the output load is turned off. Sensor

7、**Fault prompt:**

1. If you have different opinions or suggestions about our products, please email us after the sale (13622388626@163.com) We will attach great importance to your suggestions or opinions.
2. If the instruction manual is lost or you cannot operate it, please log in to our after-sales website (http://www.szmeihang.cn). Check the operation videos in the After-sales service column.