

Microcomputer Temperature Controller

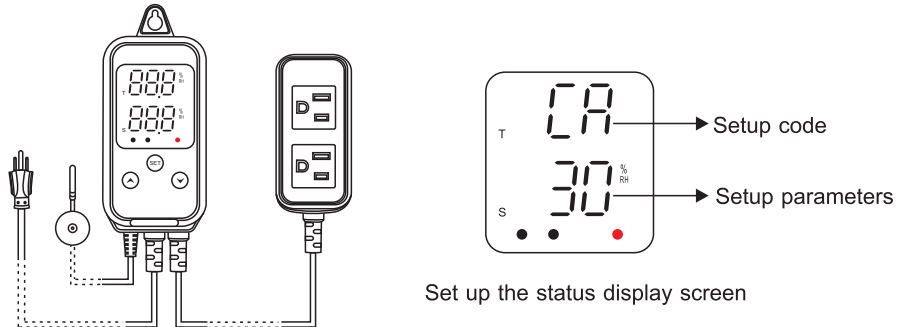
(Product Instructions for MEISAL-S20B)

First of all, thank you for purchasing Shenzhen "MEISAL" microcomputer humidity controller. This product brings together a wide range of modern heating technologies, and it can be used for reptiles and pets breeding and hatching, turtle breeding, greenhouse temperature control, fermentation, germination and other applications which need to control humidity environment. For relay, it adopts Naimo brand and has been used for 100,000 times.

1、Technical parameters:

1. Working voltage range: AC100V ~ AC250V \pm 10%50/60HZ;
Power consumption: \leq 3W;
2. Standby function: \leq 0.5W;
3. Temperature control range: 10%RH ~ 95%RH;
Measurement error: \pm 2%RH;
4. Control accuracy: 1%RH
Temperature return difference: 1%RH ~ 30%RH adjustable;
5. Power cord: Chinese standard (1.5m in length)
6. Relay: 10A/AC220V*2;
7. Working environment temperature: 5°C~60°C, and Humidity, 90%RH frost-free.

2、Schematic diagram of temperature controller:



3、Key operation instructions:

1. Power on with full display for 1 second, (self-test)
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 **ES** (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 **ES-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 3 seconds to realize the temperature unit conversion)

4、Temperature controller parameter Settings:

ES Control humidity 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 Humidification return difference {If ES=30%RH.HD=2%RH. When the ambient humidity is <(30%RH -2%RH), enable the humidification function. When the humidity is >=30%RH, the humidification function is stopped.

CD Dehumidification return difference {If set ES=30%RH.CD=3%RH, when the ambient humidity is >(30%RH +3%RH), enable the dehumidification function. When the humidity is <=30%RH, the dehumidification function is stopped.

PU Delayed start: The minimum interval between the time when the relay stops cooling and the start of next cooling.

CA Calibrate humidity settings: When there is a deviation between the controller humidity and the ambient humidity, can calibrate it through this parameter. For example, when the controller detects that the humidity is 30%RH, but your actual humidity is only 28%RH, then you can set the CA to -2%RH.

5、Parameter code table:

Menu code (°C)	Code explanation	Range	Ex-factory value/unit
ES	Control humidity	Sets the temperature value to be controlled (10%RH~95%RH)	30%RH
HD	Humidification return difference	Set the temperature return difference (1-30)%RH	5%RH
CD	Dehumidification return difference	(1-30)%RH	5%RH
PU	Delay start	Delay start relay when setting parameters (0-10 min)	00/Minute
CA	Calibrate humidity	-5%RH—+5%RH	0%RH

6、Malfunction tips:

When the sensor is short circuited or open circuited, EEE is displayed or a fault is detected and the output load is turned off;

7、Matters need attention:

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.