



Intelligent temperature controller, Energy-saving and practicality

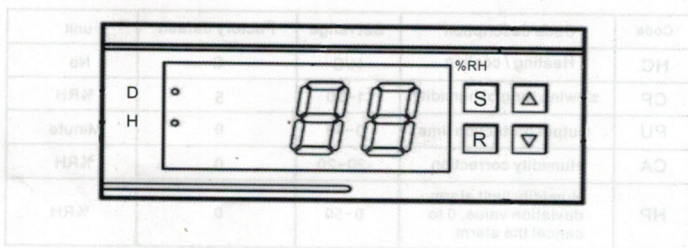
Microcomputer humidity controller

《User manual of MH13001》

Thank you for choosing Shenzhen "MEIHANG TECHNOLOGY" microcomputer humidity controller. This product gather a wide range of modern humidification and dehumidification technology, small size, simple operation, accurate measurement and anti-interference ability, etc. Humidity sensor uses a high-precision capacitive faster chip which has the advantages of high accuracy to reflect. Automatic intelligent control system suits most users in different environments for a variety of humidification and dehumidification equipment.

Humidification and dehumidification can be set through the menu, the parameters has been set the power outage permanent memory function

Panel diagram:



Technology specifications:

1. working voltage: AC220V±10% 50/60Hz; power consumption: ≤3W;
2. measurement range: 1%RH~99%RH; measurement error: ±3%RH (environment tem. 25°C);
3. control range: 1%RH; displayed precision: 1%RH; slewing range of humidity: it could be adjusted in the range of 1~50%RH;
4. Humidity type: capacitive
5. output load: 10A/AC220V;
6. working environment: temperature: 0°C~80°C, Humidity: 90%RH, none moisture condensation
7. dimension of whole unite: 75(W)X34.5(H)X85(W)mm;
8. trepanning dimension: 71(W)X29(H);

Sketch figure:

Operation instruction:

Press "S" button for 3s get into the procedure menu code mode, display the code "H". Press "Δ" or "▽" for cyclical selection of parameter code of "HC-CP-PU-CA-HP". To enter a code, press the "S" button, press the "Δ" button or the "▽" button to change to the desired data and press "R" to save and exit;
Control the humidity set: press "S" button (Short by less than 2 seconds) display blink and it is the default setting. Press "Δ" or "▽" to change the data and save automatically. (press on "Δ" or "▽" for 2s or more to increase the adjusting speed)

Anti-interference control: when the temperature control mode (code is HC) was H, e. g. the setting control humidity is 50%RH, slewing range of temperature is 5%RH, when the environment humidity \geq setting temperature (50%RH) + slewing range (5%RH), the relay will switch on and start the output load; when the environment humidity is \leq setting temperature (50%RH) - slewing range (5%RH), the relay will switch off and stop the output load.

Humidification control: when the temperature control mode (code is HC) was C, e. g. the setting control humidity is 50%RH, slewing range of temperature is 5%RH, when the environment humidity \leq setting temperature (50%RH) - slewing range (5%RH), the relay will switch on and start the output load; when the environment humidity is \geq setting temperature (50%RH), the relay will switch off and stop the output load.

HC: code option, C means humidification, H means anti-humidification.
CP: slewing range of humidity, humidity when the humidification mode just started = displayed humidity - slewing range of humidity (during the humidification mode); Humidity when the anti-humidification mode just started = displayed humidity + slewing range of humidity (during the humidification mode);

PU: delayed start, time from the relay stops the output until next starting must be longer than the delayed start time, for avoiding the frequently start.
CA: correct humidity, displayed humidity = testing humidity + corrected humidity.

HP: Limit alarm, when the mode is humidification, alarm data \leq setting humidity - HP, when the mode is anti-humidification, alarm data \geq setting humidity + HP

If the HP set to "0" means shut off the alarm.

Back to default setting: press the "R" button for 3s and display blink 5 times, all parameters back to default setting;

Parameter lock: press "▽" for 3s and blink, display "OFF", means the parameter were locked by the user, this method is the same when display "ON" means the parameter were unlocked by the user. (After parameter locking, user could check but not change, the function of temperature adjust is valid)

Menu code table:

Code	Code description	Set range	Factory default	unit
HC	Heating / cooling	H/C	C	No
CP	slewing rang of humidity	1~50	5	%RH
PU	Output protection time	0~90	0	Minute
CA	Humidity correction	-20~20	0	%RH
HP	Humidity limit alarm deviation value, 0 to cancel the alarm	0~50	0	%RH

Note matters:

1. To prevent high-frequency interference, do not install the sensor line bundled with the power line and loaded equipment line, but should be separated wiring;
2. Supply voltage must be consistent with the rated voltage and the deviation is less than $\pm 10\%$. Strict distinction between sensor installation, power line and loaded output interface;
3. The humidity control host machine cannot be installed in the place where is dripping water, or the elderly, children could be touched;
4. When the display screen shows 100%, indicating that the humidity has been very wet, if you feel the humidity is not so humid there may be equipment failure, then you can remove the humidity sensor, watch shows whether there is a change;
- 5: If the light is flashing next to the display screen, which means the equipment in the situation of delayed start state;
- 6: Please strictly follow the wiring diagram wiring, properly understood output mode, the output is just a relay switch model.

