

DHC-100+ Humidity controller

operating instructions

This product USES digital temperature and humidity, high reliability and excellent long-term stability, etc. Can be widely used in the humidifying machine, dehumidifier, air humidity, adjust the humidity control of machines and other equipment, also can be used in the measurement of relative humidity and display.

◆The main technical parameters :

The whole machine size: 75 x width x 34.5 long x85 deep (unit: mm)

Mounting holes size: 71 x 29 (unit: mm)

Power supply voltage: 220 vac ±10% 50/60 hz

Power supply: < 3 w

Range of moisture: 0% RH ~99% RH

Humidify range: 5% RH ~ 99% RH

Resolution: + / - 0.1% RH

Accuracy: + / - 3% RH

In sensor drift: <0.5% RH

Relay contacts capacity: 10 a / 220 vac

◆Control Panel :



◆Indicator light Description

Indicator light	Out	Flashe	constant on
▲ Out	---	Humidifying delay	humidifying
▼ Out	---	Dehumidification delay	dehumidifying
Set	---	---	Set the parameter state

◆View Parameters :

☆ In running state, click on the "bring" key, display humidity set point, two seconds later return; Click on the "▼" key, display humidity difference back, two seconds later return;

☆ To avoid possible interference introduced recommendation sensor leads with the power line to maintain an appropriate distance.

☆ sensor is installed, should be kept away from the vent hole to ensure the accuracy of the measured temperature.

◆Enter the control menu parameters :

☆ In the operating state, press and hold the "Set" button for 3 seconds to enter the control menu setting state. In this case, digital display settings F1.

☆ In setting state, press "▲" or "▼" key can be adjusted up or down settings F1 ~ F8, you want to change a parameter value, press - under "Set" to enter the parameter changes state, a digital display the current value of the selected setting item.

☆ changes in the parameters, press "▲" or "▼" key can be adjusted up or down parameter values, long press the quick adjustment parameters, parameter settings, click "Set" key to return to setting item state, this time digital show next setting item. After setting parameters such as F1, click the "Set" button to return to the next item F2 settings.

After setting, press "Rst" key or ten seconds no operation remained exit.

◆Menu Settings Functions :

Sign	Settings	setting range	factory set value
F1	HUMI SV	5%~99%RH	50.0%
F2	Humidity control hysteresis	1% ~ 50%RH	5.0%
F3	Mode selection	0 : Humidifying 1 : dehumidifying2 : Automatic	0
F4	The output delay time	0 ~ 120Mins	0MIn
F5	Humidity correction	-20% ~ 20%	0.0%
F6	Overwet alarm deviation	0% ~ 50.0% (0off)	0.0%
F7	Failure boot time	0 ~ 120Mins	10Mins
F8	Downtime	0 ~ 120Mins	50Mins

◆DRY

☆ When the sensor when humidity is higher than the humidity setpoint + humidity control back to the difference between the output and the delay exceeds the set delay time, the dehumidification relay dehumidification.

☆ When the sensor when the humidity is lower than the humidity setpoint, dehumidification relay off humidification stop working.

◆Humidification mode

☆ When the humidity is lower than the humidity set point sensor - humidity control back to the difference between the delay and output delay time exceeds the set time, humidification humidification relay work.

☆ When the sensor when the humidity is higher than the humidity set value, the relay off humidification humidification stop working.

◆ Automatic Mode

☆ When the humidity of sensor is higher than the humidity setpoint + humidity control back to the difference between the output and the delay exceeds the set delay time, the dehumidification relay dehumidification.

☆ When the humidity of sensor is lower than the humidity setpoint, dehumidification relay off humidification stop working.

☆ When the humidity is lower than the humidity set point sensor - humidity control back to the difference between the delay and output delay time exceeds the set time, humidification humidification relay work.

☆ When the humidity of sensor is higher than the humidity set value, the relay off humidification humidification stop working.

◆Alarm

☆ Over-wet alarm: When the display humidity is higher than the humidity setpoint + over-wet alarm deviation value or lower than the humidity set - ultra wet deviation alarm, then the light will flashe and the buzzer whistle temperature display, press any key to cancel the alarm tone, but the light will continue to Flashe. Over- temperature deviation alarm can be set to "0", cancel over-temperature alarm function.

☆ sensor failure alarm: digital display "EE", buzzer whistle, press any key to cancel the alarm. ◆Fault code table :

Code	Meaning
EE	Sensor is open circuit or short circuit, , controller proportional operation

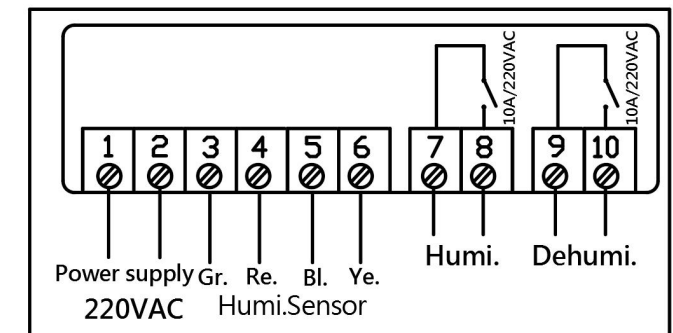
◆Run fault ratio

☆ In dehumidification mode: sensor failure, the controller will follow the boot failure and downtime dehumidification cycle control relay off work..

☆ In humidification mode: sensor failure, the controller will follow the boot failure and downtime relay loop control humidification off work.

☆ Auto mode: no fault ratio operation.

◆Product wiring diagram :



◆Check and installation requirements before using :

☆ supply voltage should match the voltage marked on the machine.

☆ prohibit the use of excessive moisture in the environment, prohibit high temperature, strong electromagnetic interference, corrosive environments.

☆ sensor leads, power lines and the output relay lead, should strictly distinguish, can not pick the wrong; can not overload relay.

☆ To avoid possible interference introduced recommendation sensor leads with the power line to maintain an appropriate distance.

☆ sensor is installed, should be kept away from the vent hole to ensure the accuracy of the measured temperature.