

## **ACH606A Intelligent humidity controller instruction manual**

### **Summarize:**

ACH606A is an intelligent humidity controller for humidifier or dehumidifier independently empoldered by Ningbo Junrong electron technology (annotate: the controller for dehumidifier will be narrated when order, contrarily is the controller for humidifier) ,with the function of the testing and display for humidity and temperature, as well as the autocontrol to environment humidity. It adopts intelligence display and autocontrol, with the characteristic of stable capability, high dependability, convenient use and cheap price. With the function of setting upper and lower limit humidity value and calibrating through the button of the panel. the set parameters will be permanently preserved, need not switch on every set.

electrical source of the controller is DC12V.The socket of controller is labeled L and N, between L and N correspond for a switch, the GND jack is not used.

### **Application:**

Orchid, mushroom, greenhouse indoor farm; bird swallow pet; family ,hotel, office, library, laboratory and so on.

### **MODEL**

ACH606A-12DC/2A : Operating Voltage 12VDC, Load current 2A ,max 5A(resistance load)

ACH606A-12DC/5A : Operating Voltage 12VDC, Load current 5A, max10A(resistance load)

ACH606A-110AC/2A: Operating Voltage 110VAC, Load current 2A ,max 5A(resistance load)

ACH606A-110AC/5A: Operating Voltage 110VAC, Load current 5A, max10A(resistance load)

ACH606A-120AC/2A: Operating Voltage 120VAC, Load current 2A ,max 5A(resistance load)

ACH606A-120AC/5A: Operating Voltage 120VAC, Load current 5A, max10A(resistance load)

ACH606A-220AC/2A: Operating Voltage 220VAC, Load current 2A ,max 5A(resistance load)

ACH606A-220AC/5A: Operating Voltage 220VAC, Load current 5A, max10A(resistance load)

ACH606A-230AC/2A: Operating Voltage 230VAC, Load current 2A ,max 5A(resistance load)

ACH606A-230AC/5A: Operating Voltage 230VAC, Load current 5A, max10A(resistance load)

Operating Voltage ,Load current can be decided on all kinds demand

### **Technique parameter:**

1: Operating Voltage: AC220V/50Hz  $\pm 10\%$ , AC110V/60Hz  $\pm 10\%$ , DC12V  $\pm 10\%$  are choice (be narrated when order)

2: Power consumption: <3VA

3: Load current: 2A personal type, 5A (max 10A resistance load) industry type

4: Relay contact dot max current: 7A/220VAC (resistance load)

5: enactment range:30%RH--90%RH

6: precision:  $\pm 5\%$  (at25°C,60%RH)

7: operating range: 0~50°C

- 8: operating range: <95%RH (non dew)  
9: storage range: 0~70℃  
10: storage range: <95%RH (non dew)  
11: Dimension: 135X68X45mm  
165X72X60mm

**Function introduce:**

- 1: the measure, display and control to environment relative humidity.
- 2: The measure and display to environment temperature.
- 3: When the enactment for timing is on  
if the environment relative humidity is less than the set point lower limit humidity, it will open the humidifier to increase the humidity . It shifts to power off state till reaching the set upper limit humidity, only after the environment humidity is lower than the set point lower limit humidity. the humidifier restart again until reaches the set point upper limit humidity again. then cycle . Eventually the relative humidity always remain at the set upper and lower limits humidity range.
- 4: When the enactment for timing is off, this controller is used as a humidity and temperature displayer. No matter how much the relative humidity is, the humidifier will not open.
- 5: Timing set at 0.1 - 9.9, the set point time means the longest working time of humidifier. now can be used as a time controller.
- 6: All the set parameters will be permanently preserved in the controller, need not set every switching on
- 7 : with the function of calibrating through the button on the controller panel. (Calibration method of operation is only available to customers with standard temperature and humidity meter)

**Display introduce:**

- 1: The controller have four indicator lights, power supply for the right light, %RH for relative humidity light, ℃ for temperature light, HOUR for time light. HIGH for upper limit humidity light LOW is the low limit humidity light.
- 2: The controller is opened when power light is bright.
- 3: Display the current environment relative humidity when the %RH relative humidity light is bright.
- 4: Display the current environment temperature when the ℃ environment temperature light is bright.
- 5: Display the time state or timing odd time when the HOUR timing light is bright. It denotes no timing when display on; It denotes timing time over or having reached the set upper limit humidity and humidifier stop working when display oF, if display a specific figure it denotes the rest time of humidifier working.
- 6: Display the set upper limit relative humidity value, it is the state of setting when the HIGH

light glimmers.

**7: Display the set lower limit relative humidity value, it is the state or setting when the LOW light glimmers.**

**8: Display the timing time, it is the state of timing. When the HOUR light glimmers**

**Operational steps:**

**1: Connect the ACH606A with power supply. plug your humidifier on humidity controller, open the power switch of humidifier**

**2: Press the key of ON/OFF for 3 seconds, power light is bright, here circularly display environment temperature -----timing time HOUR----- relative humidity %RH. If not demand to set then skip the step 3-8.**

**3: Press the key of SET, you can set upper limit relative humidity. Display the upper relative humidity enactment value when the HIGH light glimmers.**

**4: Press the key of + / - , you can adjust upper limit relative humidity enactment value. Sostenuto press the key of + / - , the enactment value will increase or decrease. The relative humidity enactment value is least 30%RH, most 90%RH.**

**5: Press the key of SET, you can set lower limit relative humidity. Display the lower limit relative humidity enactment value when the LOW light glimmers.**

**6: Press the key of + / - , you can adjust lower limit relative humidity enactment value. Sostenuto press the key of + / - , the enactment value will increase or decrease. The relative humidity enactment value is least 30%RH, most is the set upper limit relative humidity value.**

**7: Press the key of SET, you can adjust timing time, here the HOUR light is glimmers, display value is the timing time.**

**8: Press the key of + / - , you can adjust timing time. Sostenuto press the key of + / - , the enactment value will increase or decrease. The timing time is least 0.1 hour(6 minutes), most 9.9 hours (9 hours 54 minutes) . Displaying on when over 9.9 hours, it denotes no timing. As long as the relative humidity meets the conditions, the humidifier circularly works. Displaying of when less 0.1 hour, it denotes closing humidifier. No matter what the environment relative humidity and the set point humidity is, it will not open the humidifier.**

**9: Press the key of SET , you can exit enactment program.**

**10: Press the key of ON/OFF, you can close the controller.**

**Note:**

**1: Prohibiting the use of excess controller, or else it will have unpredictable consequences.**

**2: No liquid water flows within the controller.**

**3: This type controller is used for indoor, outdoor use is strictly prohibited.**

**4: Please keep controller clean.**

**5: Please use the dry cloth to clean controller.**

**6: The best installation of the controller is vertical.**

**7: Please cut the controller's power supply when it is not used for long.**

