



# INKBIRD IHC-200-WIFI Humidity Controller User Manual

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# INKBIRD

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**IHC-200-WIFI Humidity Controller  
User Manual**

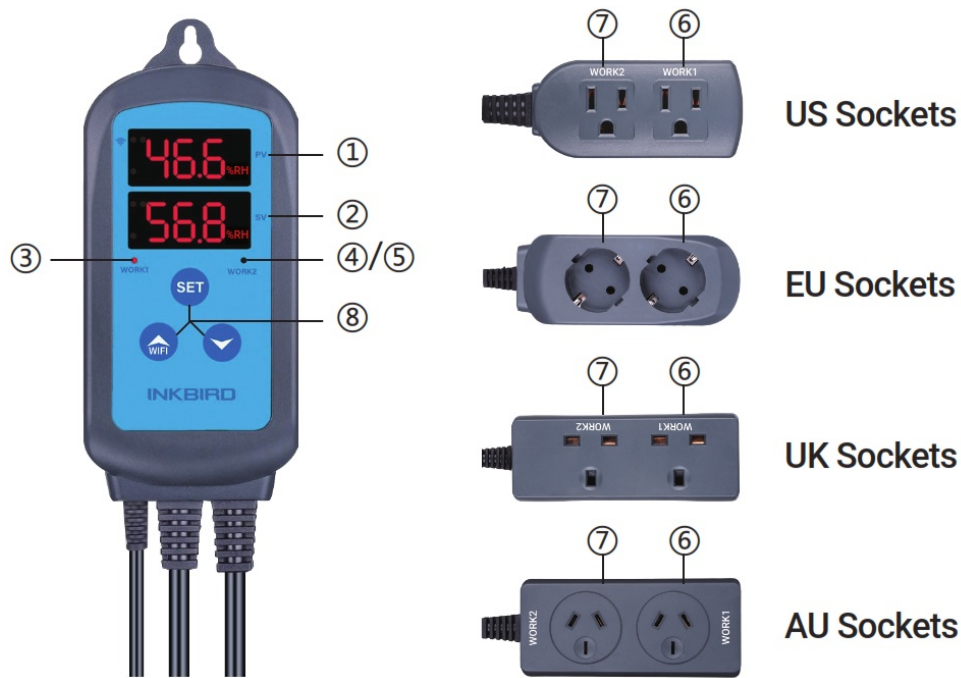


**IHC-200-WIFI  
Humidity Controller**

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## Introduction



- ① PV: In the normal mode, it displays current humidity; in the setting mode, it displays menu code.  
② SV: In the normal mode, it displays the setting humidity value; in the setting mode, it displays the setting value.  
③ Red Indicator Light: The indicator light will turn red when the humidification output is on and the indicator light will turn off when the humidification output is off.  
④/⑤ Green Indicator Light: The indicator light will turn green when the dehumidification output is on and the indicator light will turn off when the humidification output is off. If the green indicator light blinks, the device is in the mode of dehumidification delay protection state and the humidification output is off.  
⑥ WORK1: Humidification Output Socket.  
⑦ WORK2: Dehumidification Output Socket.  
⑧ Setting Button(SET), Increase Button(↑),  
Decrease Button(↓): More details on Settings.

## Product Features

- Plug-n-Play
- Dual Relay Output: Support both humidifying equipment and dehumidifying equipment at the same time.
- Display Screens: Display set humidity value and the measured humidity value at the same time.
- Support Humidity Calibration
- Support Dehumidification Control Delay Protection
- Settable High/Low Humidity Alarm
- Probe Fault Alarm
- Wi-Fi Smart App

## Specifications

- Voltage: 100-230Vac 50/60 Hz
- Current: 10A
- Maximum Power: 1200W(120Vac), 2200W(220Vac)

- Humidity Measurement Range: 10%~99%RH
- Humidity Display Accuracy: 0.1 %RH
- Relative Humidity Accuracy(10% to 95%RH): Typ:  $\pm 3\%$ RH, Max:  $\pm 5\%$ RH
- Display Unit: %RH
- Operating Ambient Temperature: -20°C~40°C/-4°F~104°F
- Storage Temperature: 0°C~60°C/32°F~140°F
- Storage Humidity: 20~80%RH (not frozen or dewed)
- Warranty:
  - Controller: 2 years
  - Probe: 1 year

## Wi-Fi Connection

### 4.1 Download INKBIRD App

Search the keyword "INKBIRD" in Appstore or Google Play to get the app, or you can scan the following QR code directly to download and install the app.

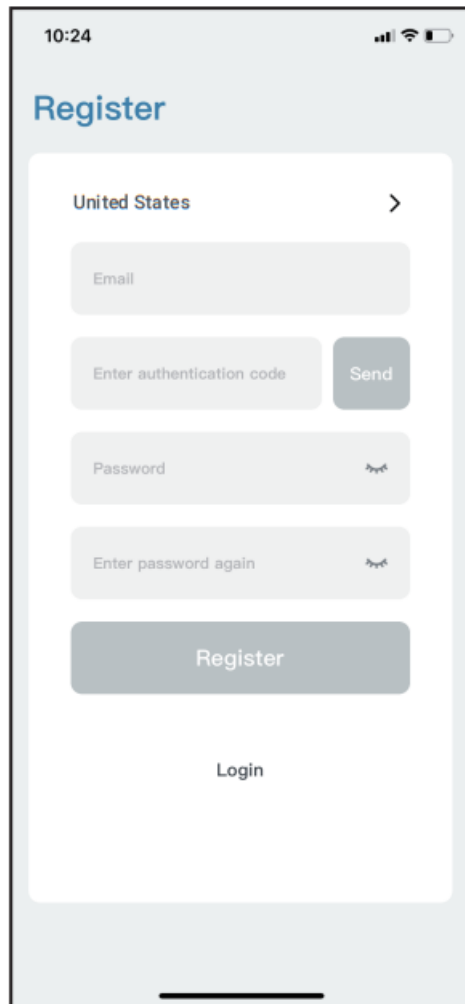


<https://inkbird.com/pages/app-download>



Scan QR code to download  
**INKBIRD APP**

### 4.2 Connect to your phone

- ① Register before using the INKBIRD app. Select your Country/Region, enter your e-mail, then a verification code will be sent to your mailbox, enter it to confirm your identity and the registration is done.
- ② Then press "Add Home" button to create your home.



(3) Tap “+” or “add device” button in home page of the APP to add the device.

(4) Press and hold the  button for 2 seconds to reset the WIFI when the controller is under normal working state. The controller will enter the Smartconfig configuration state by default. You can short press the  button to switch between the Smartconfig configuration mode and the AP mode.

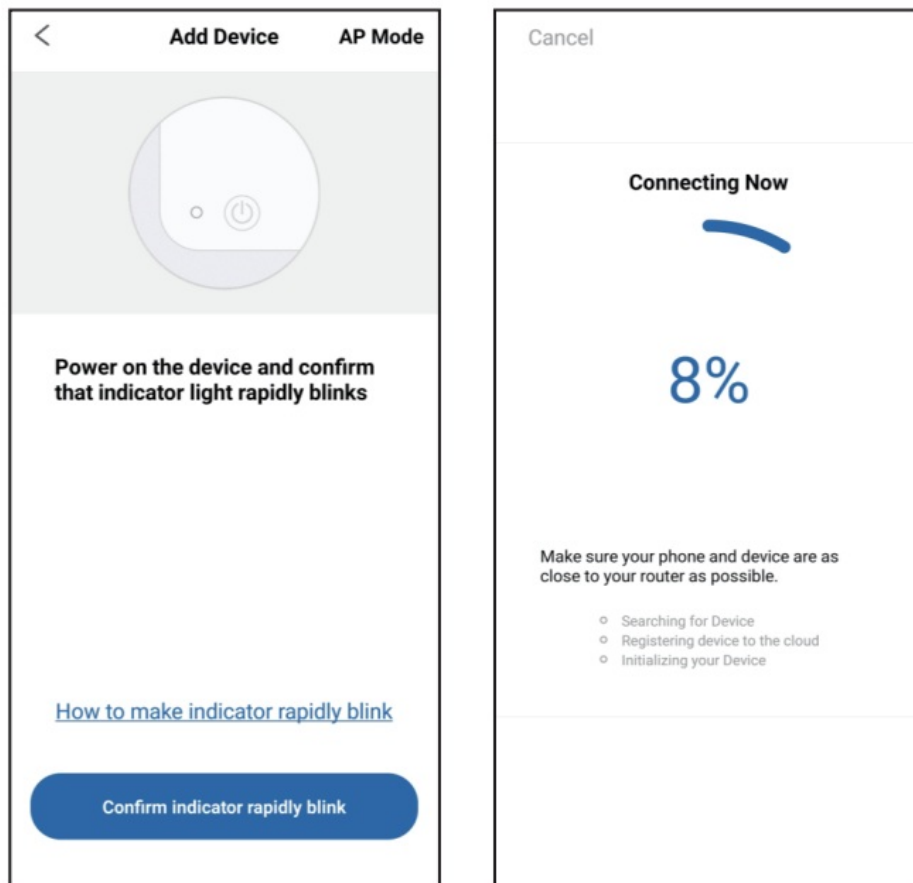
As the WIFI module need time for data processing, so it will take about 5 seconds to display the corresponding LED symbol and state if the Wi-Fi states change.

#### 4.3 Quick Connection

(1) Plug the device in the socket and make sure that the device is in the Smartconfig state(the LED symbol is flashing rapidly, interval flashing 250ms).

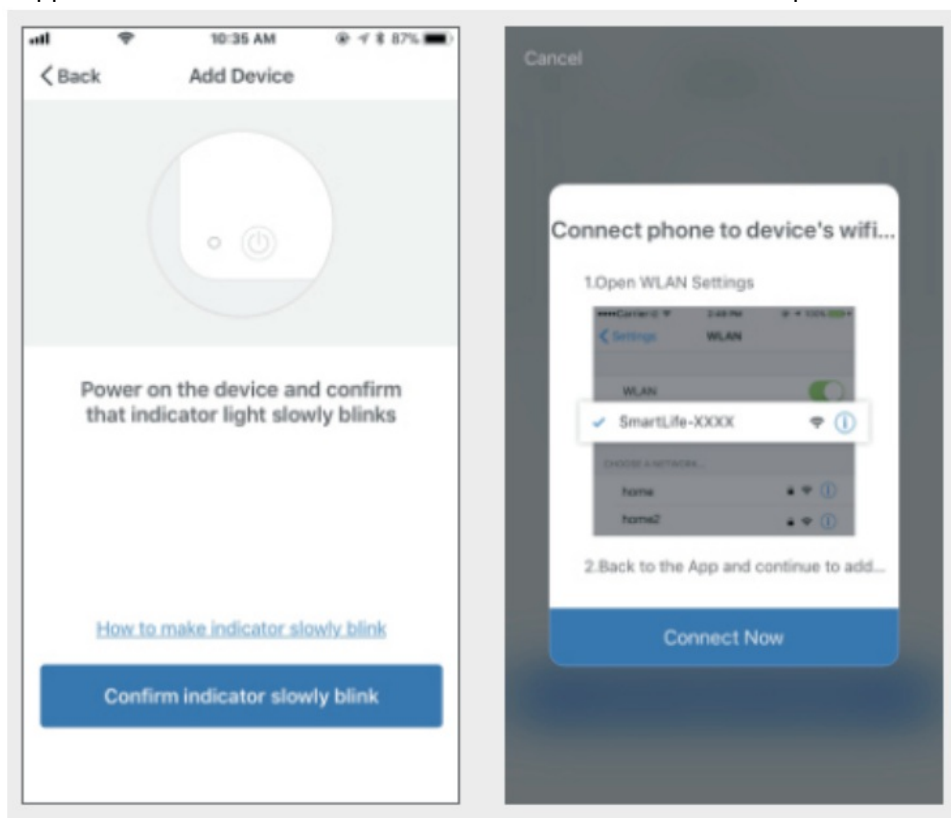
(2) Check if the LED symbol is blinking rapidly and confirm on your app if it is, then enter your Wi-Fi password to connect to wireless network, click Confirm to connect the device.

**Note:** The device only supports 2.4GHz Wi-Fi router.



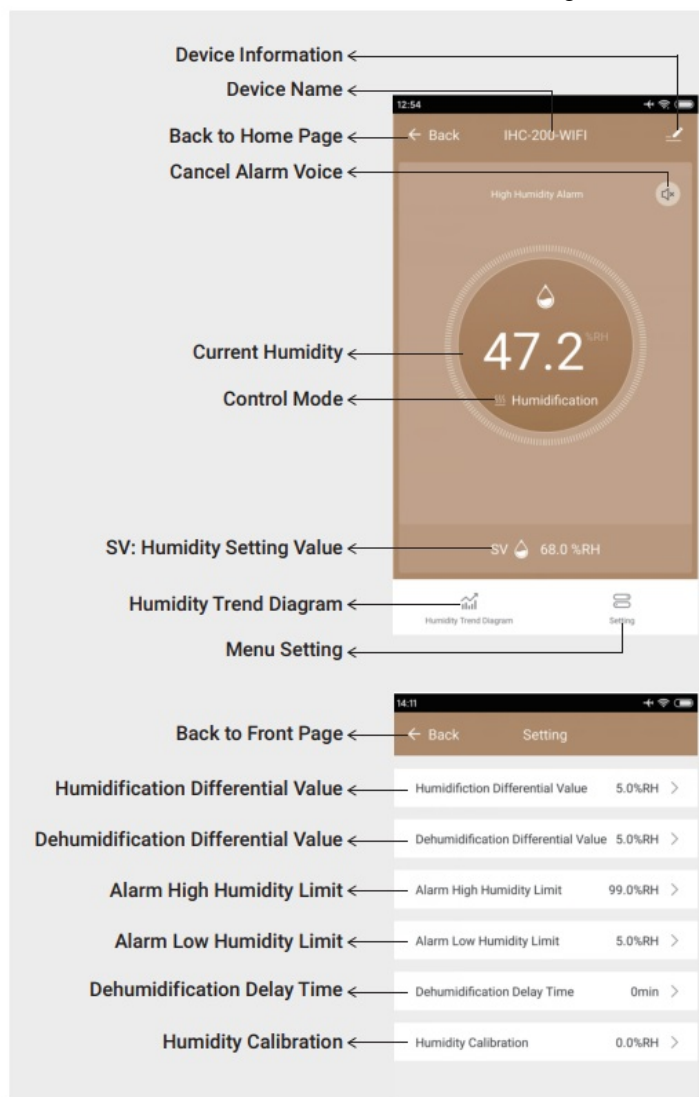
#### 4.4 Connect the device in AP mode

- ① Plug the device in the socket and make sure that the device is in the AP Configuration State(the LED symbol is flashing slowly, interval flashing 1500ms).
- ② Click “Confirm indicator slowly blink” and then select Wi-Fi network, enter Wi-Fi password, click “Confirm” to enter connection process.
- ③ Press “Connect now” and it will go to your WLAN Setting interface on your smart phone, select the “SmartLife-XXXX” to directly connect to the router without putting in password.
- ④ Go back to the app to enter into the automatic connection interface. connection process.



- ⑤ Click “Done” after adding device successfully and enter into the device controlling interface.

⑥ In the humidity control mode, users can do some control function settings with the app.




## 4.5 Wi-Fi State

- Smartconfig State: The Wi-Fi indicator light is flashing rapidly, interval flashing 250ms.
- AP State: The Wi-Fi indicator light is flashing slowly interval flashing 1500ms.
- Connection Fail State: The Wi-Fi indicator light turns off.
- Connection Succeed State: The Wi-Fi indicator light keeps on.







## Settings

### 5.1 Key Setting





#### 5.1.1 Factory Reset


Hold the  button and turn on the device, the buzzer will beep shortly to remind the users that all parameters of the the humidity probe are restored to factory settings.

#### 5.1.2 Fast Setting

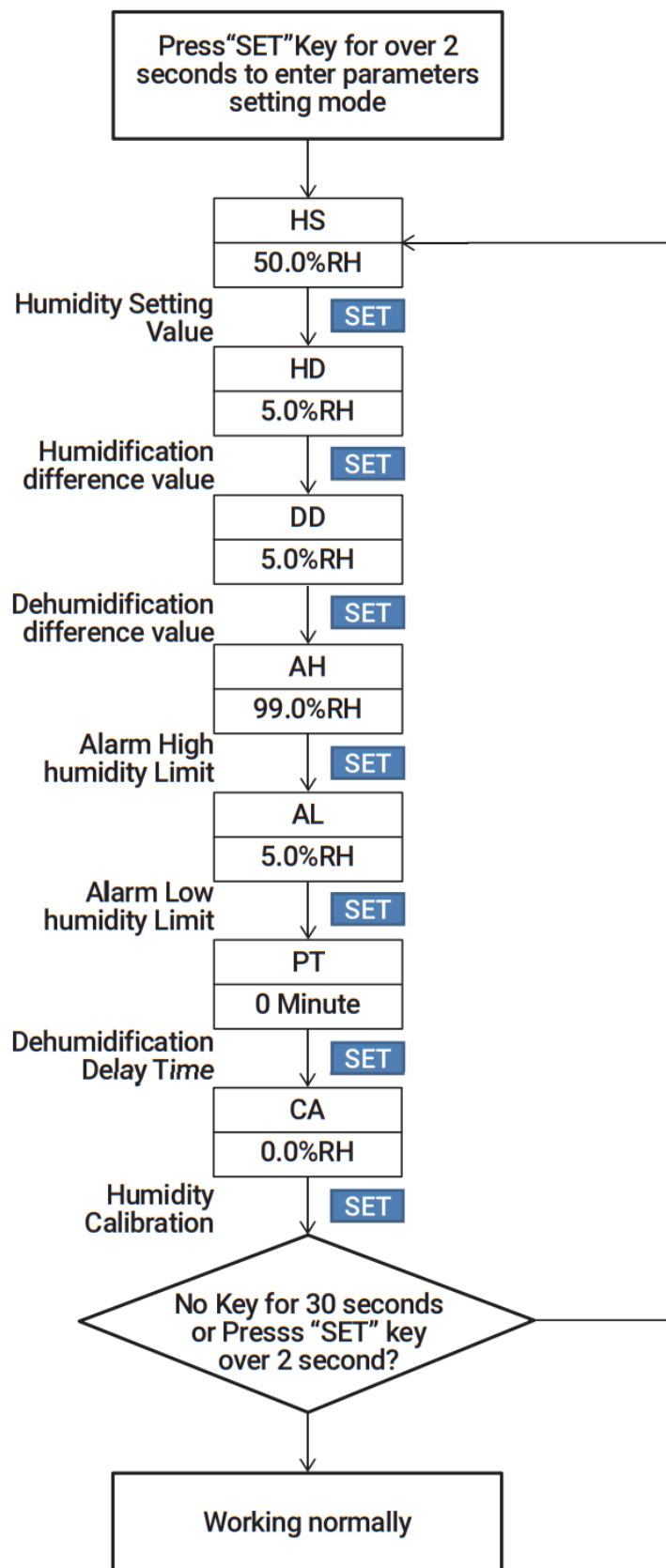
Press the  button lightly to enter quick  Press the button lightly to enter quick set-up mode and set the value, the SV screen will display the current setting value and keep  flashing. Press the  button or the button to change the value, hold the button or the  button to change the value quickly, press the  button again to save settings and quit the setting mode, the controller will also save settings and quit the setting mode if there is no operation for 10 seconds.

#### 5.1.3 Normal Setting








Hold the  button for 2 seconds to enter setting mode when the controller working normally, the PV screen will display the code "HS" of the first menu item and the SV screen will display the corresponding setting value. Press the  button to switch between menu items, press the  button or the button to change the value, the value will be saved automatically when you switch to another menu item by pressing the  button.

Press and hold the  button for 2 seconds to save settings and quit the setting mode, the controller will also quit the setting mode and turn to normal working mode if there's no operation for 30 seconds.

## **5.2 Flowchart of the Settings**



### 5.3 Icons in this Manual

Symbol	Icon	Function	Setting Range	factory Set tings	Note
HS		Humidity Setting Value	5.0%RH ~99.0%RH	50.0%RH	See 6.1
HD		Humidification Difference Value	1.0%RH ~20.0%RH	5.0%RH	
DD		Dehumidification Difference Value	1.0%RH ~20.0%RH	5.0%RH	
AH		Alarm High Humidity Limit	5.0%RH ~99.0%RH	99.0%RH	See 6.2
AL		Alarm Low Humidity Limit	5.0%RH ~99.0%RH	5.0%RH	
PT		Dehumidification Delay Time	0~10 Minutes	0 Minute	See 6.3
CA		Humidity Calibration	-20.0%RH ~20.0%RH	0.0%RH	See 6.4

## Basic Operations

### 6.1 Instructions for Humidity Control Setting(HS,HD,DD)

The PV Screen displays the measured value of current humidity when working normally, recognize and switch between humidification mode and dehumidification mode automatically. If the measured Humidity(PV) 5 Humidity Setting Value(HS)-Humidification Differential Value(HD), the equipment will enter humidification state, the red led is on, WORK1 output socket turns on. If the measured Humidity(PV) ? Humidity Setting Value(HS), the red led is off, WORK1 output socket turns off.

If the measured Humidity(PV) ? Humidity Setting Value(HS)+Dehumidification Differential Value(DD), the equipment will enter dehumidification state, the green led is on, WORK2 output socket turns on. If the green led is blinking, indicating that the dehumidification device is in the state of the dehumidification delay protection, WORK2 output socket turns off. If the measured Humidity(PV) 5 Humidity Setting Value(HS), the green led is off, WORK2 output socket turns off.

**Example:** HS=50.0%RH, HD=5.0%RH, DD=8.0%RH, If PV(the measured humidity) ? 58.0%RH(HS+DD), the equipment will enter the dehumidification state, the green led is on, WORK2 output socket turns on. If PV 55.0%RH(HS), the green led is off, WORK2 output socket turns off. If PV 5 45.0%RH (HS-HD), the equipment will enter the humidification state, the red led is on, WORK1 output socket turns on. If PV a 50.0%RH(HS), the red led is off, WORK1 output socket turns off.

**Note:** There is no need to judge the differential value of humidification or dehumidification when power on or exiting the setting state. For example: when power on or exiting the setting state HS=50.0%RH, HD=5.0%RH, DD=8.0%RH. If PV(the measured humidity) > 50.0%RH(HS), it will enter the dehumidification state. When PV 5 50.0%RH(HS), the dehumidification stops, then return to normal humidity control mode. If PV < 50.0%RH, it will enter the humidification state. When PV ≥ 50.0%RH,the humidification stops, then return to normal humidity control mode.

### 6.2 High/Low Humidity Alarm(AH,AL)

The equipment will alarm if the value of measured humidity(PV) ? the set value of high humidity alarm(AH), the PV screen will display the set value of high humidity alarm(AH) and the current humidity value alternately, the buzzer will alarm like “bi-bi-Biii”until the value of measured humidity(PV) < the set value of high humidity alarm(AH). You can also stop the alarming by pressing any button of the equipment.

The equipment will alarm if the value of measured humidity(PV) 5 the set value of Low humidity alarm(AL), the PV screen will display the set value of low humidity alarm(AL) and the current humidity value alternately, the buzzer will alarm like “bi-bi-Biii” until the value of measured humidity(PV) > the set value of low humidity alarm(AL). You can also stop the alarming by pressing any button of the equipment.

**Note:** The setting value of low humidity alarm(AL) should be less than the setting value of high humidity alarm(AH).

### **6.3 Dehumidification Delay Time(PT)**

The equipment will not start immediately in the mode of dehumidification for the first time if the measured value is larger than the sum value of set humidity value and dehumidification return difference, the equipment will start to dehumidify after the set delay time. The equipment will dehumidify immediately if the interval time of two adjacent dehumidification is longer than the delay time. The equipment will dehumidify after delay time if the interval time of two adjacent dehumidification is shorter than the delay time. The delay time start timing when last dehumidification is done.

**Note:** There is no need to judge the delay time when power on or exiting the setting state.

### **6.4 Humidity Calibration(CA)**

If the measured humidity differs from the standard humidity, you can calibrate the device by adding or reducing the correction value to align the measured humidity to the standard humidity. The calibrated humidity = the measured humidity value + the calibration value.

## **Sensor Fault Alarm**

If the humidity sensor is in circumstances of short circuit or open circuit, the controller will enter probe fault mode and stop running, the buzzer will alarm and the screen will display ER. You can press any key to stop the buzzer and the controller will back to normal working state when all malfunctions are resolved.

## **Important Safeguards**

It's important that you take special care when using electrical appliances. Follow our tips to stay safe.

- Read all instructions.
- Check that flexible leads and the appliance are in good condition.
- Check your plug sockets are not overloaded with too many electrical appliances as this can lead to overheating.
- Do not use appliance for other than intended use.
- Do not cut the cord, or put it on hot surfaces.
- Do not place on or near a hot gas or electric burner, or in a heated oven.
- Don't try to clean or repair the appliance when it is still plugged in.
- Don't wrap flexible cables around the appliance when it is still warm.
- Switch off the device when not in use.
- Please disconnect the power as soon as possible if the device falls into the water, the Warranty does not include water damage.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. Close supervision is necessary when any appliance is used by or near children.

## **Warranty**

This Limited Warranty applies only to INKBIRD IHC-200-WIFI Humidity Controller.

### **What is Covered and for How Long**

INKBIRD warrants that all new products are free from defects in manufacturing, materials and workmanship for a

period of one year from date of retail purchase.

### **What this Warranty Does not Cover**

The warranty does not cover defects or malfunction caused by misuse, abuse or improper maintenance, failure to follow operating instructions, or use with equipment with which it is not intended to be used. Also, the warranty will not apply to damage caused by unauthorized alteration, modification or repair of the product. INKBIRD does not warrant or provide service or support for any third party products, including, but not limited to iPhones and Android Phones.

### **How to Obtain Warranty Service**

To obtain warranty service for products purchased from a third-party, retail or directly from INKBIRD you must return the product with proof of purchase using the following procedures:

- Contact INKBIRD Customer Support for specific return and shipping instructions by email.

Email Address: [support@inkbird.com](mailto:support@inkbird.com) You may be asked to complete a warranty service request form. And to help ensure warranty claims are for INKBIRD products, our technical support department may also require you to email a copy of your purchase receipt to us.

- Label and ship the product, freight prepaid, to the address provided by INKBIRD.

### **Exclusions and Limitations**

THIS WARRANTY IS YOUR EXCLUSIVE WARRANTY AND REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF EXPRESS OR IMPLIED WARRANTIES, THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES APPLY ONLY TO THE EXTENT AND FOR SUCH DURATION AS REQUIRED BY LAW AND ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, THE ABOVE LIMITATION ON DURATION MAY NOT APPLY TO YOU.

### **FCC Requirement**

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**INKBIRD TECH.C.L.**

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**V3.0**

Modifications: 1. Add version number 2. Update address

2022.04.02 Modifications:

1. Change of company information (remove the QR code of the official website, remove the URL, and add the office address)
2. Updated version number;
3. APP download QR code changed from inkbird Pro to INKBIRD


App-related information changes;

4. The text inkbird is capitalized

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## Documents / Resources

	<p><a href="#">INKBIRD IHC-200-WIFI Humidity Controller</a> [pdf] User Manual</p> <p>IHC-200-WIFI Humidity Controller, IHC-200-WIFI, Humidity Controller, Controller</p>
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[Manuals+](#)