LUXBIRD

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`86.8`°F

● WORK

Temperature Controller

LB-1SC-WIFI

USER MANUAL

Please keep this manual properly for reference. You can also scan the QR code to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com.**

Wenn Sie eine Bedienungsanleitung in deutscher Sprache benötigen, scannen Sie bitte den QR-Code und besuchen Sie unsere Website, um sie zu erhalten und ein Video über die Verwendung des Produkts zu sehen.

Se avete bisogno di un manuale di istruzioni in italiano, scansionate il codice QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.

Si vous avez besoin d'un mode d'emploi en français, veuillez scanner le code QR pour visiter notre site officiel afin d'obtenir et de visionner la vidéo d'utilisation du produit !

Als je een Nederlandstalige handleiding nodig hebt, scan dan de QR-code om naar onze officiële website te gaan en bekijk de video over het gebruik van het product!

Si necesita el manual de instrucciones en español, escanee el código QR para ir a nuestro sitio web oficial y ver el vídeo sobre cómo utilizar el producto.

Warm tips

- To quickly jump to a specific chapter page, click on the relevant text on the contents page.

- You can also use the thumbnail or document outline in the top left corner to quickly find a specific page.

CONTENTS

01. USAGE PRECAUTIONS

- KEEP CHILDREN AWAY

- TO REDUCE THE RISK OF ELECTRIC SHOCK, USE ONLY INDOORS

- DO NOT PLUG INTO ANOTHER RELOCATABLE POWER TAP OR AN EXTENSION CORD

- USE ONLY IN DRY LOCATION

02. MAIN FEATURES

- Plug-n-Play, easy to use

- Supports both Celsius and Fahrenheit units

- LED screen displays the detected temperature and the heating/cooling state

- Supports temperature calibration

- Supports high and low temperature alarms

- Supports probe abnormal alarm

03. TECHNICAL SPECIFICATION

- **Power Input:** 100~240Vac 50/60Hz

- **Power Output:** 100~240Vac 50/60Hz, 10A, 1200W Max(120Vac) or 2300W Max(230Vac)

- **Probe Type:** R25°C=10KΩ±1% R0°C=26.74~27.83KΩ,B25/85°C=3435K±1%

- **Temperature Control Range:** 32.0~113°F/0.0~45.0°C

- **Temperature Display Range:** 23.0~122°F/-5.0~50.0°C

- **Measurement Accuracy:** ±1.0°C /±2.0°F

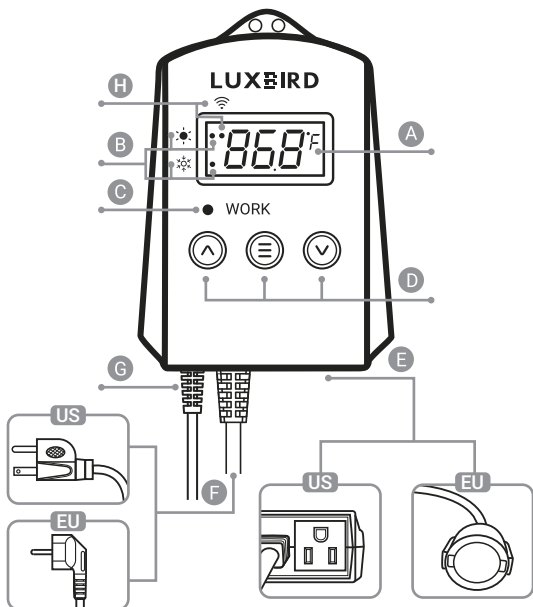**Operating Temperature:** Room Temperature

- **Storage Environment:**
  Temperature: 32℉~140℉/0℃~60℃
  Humidity: 20~80%RH (Unfrozen or non-condensing)

- **Product Warranty:** 2 years for the controller, 1 year for the probe

04. PRODUCT DIAGRAM

A Screen Display: In normal mode, the measured temperature is displayed. In setting mode, the menu code and setting value are displayed.

B HEATING or COOLING Status

C LED Indicator
  • Green LED on: Heating/Cooling output is turned on.
  • Green LED blinking: Performing the compressor delay function

D Functional Buttons
  ⊜ SET Button
  ⊙ UP Button
  ⊙ DOWN Button

E Power Output

F Power Intput

G Temperature Probe

H LED Indicator
  • WiFi pairing state: The led flashes slowly
  • WiFi working sates: The led lighting

05. APP INSTALLATION & CONNECTION

▶ INKBIRD APP Installation

Search the INKBIRD App from Google Play or App Store to get it for free, or you can scan the QR code below to download it directly.

NOTE:

1. Your iOS devices must be running iOS 12.0 or above to download the app smoothly.

2. Your android devices must be running android 7.1 or above to download the app smoothly.

3. The device supports a 2.4GHz Wi-Fi router only.

4. APP Location Permission Requirement: We need to obtain your location information to discover and add nearby devices. INKBIRD promises to keep your location information strictly confidential. And your location information will only be used for the location function of the App and will not be collected, used, or disclosed to any third party. Your privacy is very important to us. We will abide by relevant laws and regulations and take reasonable security measures to protect your information security.

▶ APP Registration

Step1: Registering an account is necessary before using the INKBIRD app for the first time.

Step2: Open the app, select your Country/Region, and a verification code will be sent to you.

Step3: Enter the verification code to confirm your identity, and the registration is complete.

▶ APP Connection

Open the INKBIRD app and Click "+" on the top right corner to add a device. Then follow the app instructions to complete the Wi-Fi connection. Make sure that the device is placed as close as possible to the smartphone and router during the connection process.

06. OPERATION INSTRUCTIONS

▶ How to enter the WiFi pairing state?

Press and hold the ⊙ button for 2 seconds to enter AP pairing mode. (The second indicator light in the top left corner flashes slowly.)

▶ How to restore factory settings?

After pressing and holding the ⊙ button, connect the controller to a power source and do not release the button until you hear a beep, this means that the controller has been reset to factory settings and all heating and cooling times have been reset to zero.

▶ How to set the temperature unit to ℉?

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character CF.

Step2: Press the ⊜ button to enter the temperature unit setting, and the relevant parameter will flash. Then press ⊙ or ⊙ to select F .

$$\boxed{C} \qquad \boxed{F}$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ **How to select the COOLING mode?**

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character HC .

$$\boxed{HC}$$

Step2: Press the ⊜ button to enter the heating/cooling mode setting, and the relevant parameter will flash. (Character H indicates the heating mode, and character C indicates the cooling mode.) Press ⊙ or ⊙ to select C .

$$\boxed{H} \qquad \boxed{C}$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ **How to set the start temperature to 68.0℉?**

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character St .

```
 5t
```

Step2: Press the ⊜ button to the target temperature setting, and the relevant parameter will flash. Press ⊙ or ⊙ to adjust the parameter to 68.0℉.

```
 68.0℉
```

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ How to set the stop temperature to 78.0℉?

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character $5P$.

$$5P$$

Step2: Press the ⊜ button to the target temperature setting, and the relevant parameter will flash. Press ⊙ or ⊙ to adjust the parameter to 78.0℉.

$$78.0^{°F}$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ How to set the high-temperature alarm value to 80.0℉?

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character RH.

$$RH$$

Step2: Press the ⊜ button to the target temperature setting, and the relevant parameter will flash. Press ⊙ or ⊙ to adjust the parameter to 80.0℉.

$$80.0°F$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ **How to set the low-temperature alarm value to 50.0℉?**

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character RL .

$$RL$$

Step2: Press the ⊜ button to the target temperature setting, and the relevant parameter will flash. Press ⊙ or ⊙ adjust the parameter to 50.0℉.

$$50.0°F$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ **How to set the refrigeration compressor delay time to 3 minutes? (only for cooling mode)**

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊘ or ⊘ to switch to the character PE .

$$PE$$

Step2: Press the ⊜ button to enter the refrigeration compressor delay time setting, and the relevant parameter will flash. Press ⊘ or ⊘ to adjust the parameter to 3.

$$3$$

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ How to set the temperature calibration value to 0.5℉?

Step1: Press and hold the ⊜ button for 2 seconds to enter the setup menu, then press ⊙ or ⊙ to switch to the character $\mathcal{L}\mathcal{R}$.

```
CA
```

Step2: Press the ⊜ button to enter the temperature calibration setting, and the relevant parameter will flash. Press ⊙ or ⊙ to adjust the parameter to 0.5℉.

```
0.5
```

Step3: Press the ⊜ button to confirm your selection and return to the setup menu. Press and hold the ⊜ button for 2 seconds or perform no action for 30 seconds to exit and save the parameters.

▶ How to quickly check the start and stop temperatures?

Step1: In the normal working state, press the ⊜ button, the LED screen will display the start temperature value and then return to normal display in 2 seconds if no further action is taken.

Step2: Press the ⊜ button again, the LED screen will display the stop temperature value and then return to normal display in 2 seconds if no further action is taken.

Step3: Press the ⊜ button a third time to exit the inquiry state.

07. HOW DOES IT WORK?

▶ **Heating Function**

(1) In the heating mode, if the current temperature is less than or equal to the start temperature (ST), the controller will automatically start heating with the green light on. For example, if current temperature=68.0℉; ST=68.0℉, it enables heating.

(2) If the current temperature is greater than or equal to the stop temperature (SP), the controller will stop heating with the green light off. For example, if current temperature=89.0℉; SP=88.0℉, it disables heating.

▶ **Cooling Function**

(1) In the cooling mode, if the current temperature is greater than or equal to the start temperature (ST), the controller will automatically start cooling with the green light on. For example, if current temperature=99.0℉; ST=98.0℉, it enables cooling.

(2) If the current temperature is less than or equal to the stop temperature (SP), the controller will stop cooling with the green light off. For example, if current temperature=67.0℉; SP=68.0℉, it disables cooling.

▶ Special Temperature Control

There is no need to judge the range value in heating or cooling when powering on or exiting the setting state. It is compared directly with SP (stop temperature value).

For example:

- When powering on or exiting the setting, ST=25.0℃ and SP=30℃ in the heating mode, if the current temperature value＜30.0℃, it will immediately enter the heating state, and if the measured temperature value≥30℃, the heating will stop, and then the normal temperature control will resume.

- When powering on or exiting the setting, ST=30.0℃ and SP=25℃ in the cooling mode, if the current temperature value＞25.0℃, it will immediately enter the cooling state, and if the measured temperature value≤25℃, the cooling will stop, and then the normal temperature control will resume.

▶ High-Temperature Alarm Function

If the current temperature is greater than or equal to the preset high-temperature alarm value, the screen will alternately display the character AH and the current temperature, and the device will beep to remind you. You can press any button to cancel the alarm. After the current temperature drops to the high-temperature alarm value, the device will automatically return to normal working mode.

▶ Low-Temperature Alarm Function

If the current temperature is less than or equal to the preset low-temperature alarm value, the screen will alternately display the character AL and the current temperature, and the device will beep to remind you. You can press any button to cancel the alarm. After the current temperature rises to the low-temperature alarm value, the device will automatically return to normal working mode.

▶ Probe Abnormal Alarm Function

When the temperature probe is detected to be abnormal, the screen will display the character ER, and the device will beep to remind you. You can press any button to cancel the alarm.

08. 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.

09. SCREEN MENU DESCRIPTION

Symbols	Display Characters	Functions	Setting Ranges	Factory Settings
CF	CF	Temperature unit setting	C&F	F
HC	HC	Heating/cooling mode setting	H&C	H
HC = H	$5t$	Start temperature value	32.0~113°F	77.0°F
			0.0~45.0°C	25.0°C
	$5P$	Stop temperature value	32.0~113°F	78.0°F
			0.0~45.0°C	26.0°C
HC = C	$5t$	Start temperature value	32.0~113°F	78.0°F
			0.0~45.0°C	26.0°C
	$5P$	Stop temperature value	32.0~113°F	77.0°F
			0.0~45.0°C	25.0°C
AH	RH	High temperature alarm value	23.0~122°F	122°F
			-5.0~50.0°C	50.0°C
AL	RL	Low temperature alarm value	23.0~122°F	23.0°F
			-5.0~50.0°C	-5.0°C

PT	*PL*	Cooling compressor delay time (min)	$0\sim10$ minutes	0 minute
CA	*CA*	Temperature calibration value	-9.9~9.9°F	0.0°F
			-4.9~4.9°C	0.0°C

Note:

(1) Changing the temperature unit will reset all parameters.

(2) If the start temperature and stop temperature are less than 100.0°F, the absolute difference is 0.5°F minimum in Fahrenheit. If the start temperature and stop temperature are greater than or equal to 100.0°F, the absolute difference is 1.0°F minimum in Fahrenheit

(3) The absolute difference of the start temperature and stop temperature is 0.3°C minimum in Celsius.

10. TROUBLESHOOTING GUIDE

What can you do if the device is not working? Here are some possible reasons and relative solutions for reference. We hope they are helpful. For any further questions, please feel free to contact us at **support@inkbird.com.**

Issues	Possible Solutions
What if the WiFi connection fails?	1. Ensure your home router is switched to a 2.4GHz WiFi channel. This product only supports 2.4GHz WiFi routers.
	2. Ensure the distance between the router and the controller is within the connection range. And obstacles such as walls will affect the wireless connection.
	3. Ensure your smartphone has Bluetooth enabled. With Bluetooth assistance, the controller can connect to your smartphone faster.

Issues	Possible Solutions
What if the controller does not work properly?	After plugging in the power supply, if the indicator light does not light up, check that the power adapter is fully inserted into the power port, and make sure the main power switch is turned on.

11. CUSTOMER SERVICE

This item carries a 2-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge. For any problems in use, please feel free to contact us at **support@inkbird.com**. We will do our best to help you.

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DESIGNED BY INKBIRD