

IPT-2CH

95mm*170mm

骑马订

INKBIRD

SMART HOME SMART LIFE



Smart Temperature Controller Manual





Contents

01 INTRODUCTION

CAUTION	1
Features	1
Technical Parameters	1
Product Layout	2

02 APP CONTROL

Download The App.....	3
Pair With Your Phone.....	3
Add Devices in SmartConfig Mode.....	4
Add Devices in AP Mode	5

03 OPERATING INSTRUCTIONS

Factory Reset	8
Quick Query of The Start Heating Temperature	9
Quick Setup of The ControllingTemperature	10
Temperature Unit Setting	11
Start Heating Temperature of P1 (ST1).....	12
Stop Heating Temperature of P1 (SP1).....	13
High Temperature Alarm of P1 (AH1).....	13
Low Temperature Alarm of P1 (AL1).....	14
The Setting of The P1 Calibration Value (CA1).....	15
Start Heating Temperature of P2 (ST2).....	16
Stop Heating Temperature of P2 (SP2).....	17
High Temperature Alarm of P2 (AH2).....	18
Low Temperature Alarm of P2 (AL2).....	19
The Setting of The P2 Calibration Value (CA2).....	20
Turn On/Off The Buzzer Sound Manually (ALM).....	20
Temperature Display	21
Technical Assistance and Warranty.....	22

INTRODUCTION

CAUTION

- KEEP CHILDREN AWAY
- TO REDUCE THE RISK OF ELECTRIC SHOCK, USE ONLY INDOORS
- DO NOT PLUG INTO ANOTHER RELOCATABLE POWER TAPS OR AN EXTENSION CORD
- USE ONLY IN DRY LOCATION

Features

- Plug-n-Play, easy to use.
- Dual relay control, controls two sets of outputs. Users can set different target temperatures according to different environments.
- Supports both Celsius and Fahrenheit units.
- LCD display, displays the testing temperature, the target temperature and the output state.
- Supports temperature calibration.
- Supports high/low temperature limit alarm.
- Supports probe abnormal alarm.

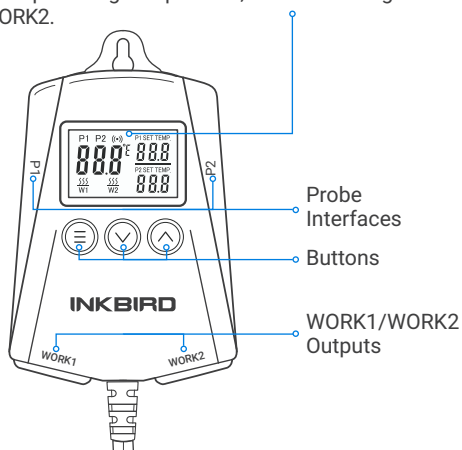
Technical Parameters

- Power
Input: 100~240Vac 50/60Hz
Output: 100~240Vac 50/60Hz 500W Max
- Probe Type: R25°C=10K Ω ±1% R0°C=26.74~27.83K Ω
B25/85°C=3435K±1%
- Temperature Control Range: 0.0°C~45.0°C/32.0°F~113°F

- Temperature Measurement Range: $-5.0^{\circ}\text{C}\sim 50.0^{\circ}\text{C}$ / $23.0^{\circ}\text{F}\sim 122^{\circ}\text{F}$
- Temperature Display Accuracy: $0.1^{\circ}\text{C}/^{\circ}\text{F}$ ($T < 100^{\circ}\text{C}/^{\circ}\text{F}$), $1^{\circ}\text{C}/^{\circ}\text{F}$ ($\geq 100^{\circ}\text{C}/^{\circ}\text{F}$)
- Temperature Measurement Accuracy: $\pm 1^{\circ}\text{C}/\pm 2^{\circ}\text{F}$
- Temperature Unit: Celsius $^{\circ}\text{C}$ or Fahrenheit $^{\circ}\text{F}$
- Operating Ambient Temperature: $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}/-4^{\circ}\text{F}\sim 140^{\circ}\text{F}$
- Storage Environment:
 - temperature range: $0^{\circ}\text{C}\sim 60^{\circ}\text{C}/32^{\circ}\text{F}\sim 140^{\circ}\text{F}$
 - humidity range: $20\sim 80\%\text{RH}$ (not frozen or condensation)
- Warranty: 2 years for the controller and 1 year for the probes

Product Layout

LCD: Display the Current Temperature, the WORK1 Stop Heating Temperature, the Heating Indicator of WORK1, the WORK2 Stop Heating Temperature, and the Heating Indicator of WORK2.



APP CONTROL

Download The App

Search the keyword “Inkbird Pro” in Appstore or Google Play to get the app, or scan the following QR code directly to download and install the APP.



Pair With Your Phone

- Open the app, select the country and enter your E-mail to create an account, then press “Add Home” to create your home. If you have registered an account before, log in directly.

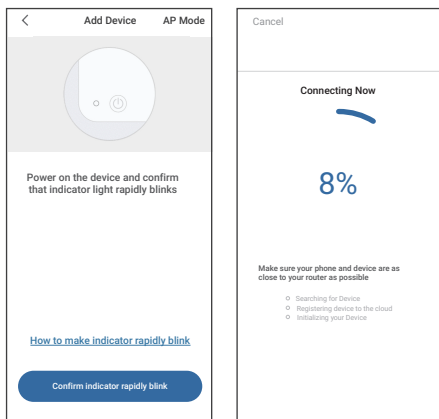
A screenshot of a mobile app's registration screen. The screen has a light blue gradient background. At the top left is a back arrow icon. The title "Register" is centered at the top. Below it is a white rounded rectangle containing the registration form. The form has a country selector showing "United States +1" with a right arrow. Below that are three input fields: "E-mail", "Password", and "Enter Password again". At the bottom of the form is a blue button labeled "Get verification code". At the very bottom of the screen, there is a small icon and the text "I agree Service Agreement and Privacy Policy".

- Tap “+” or “add device” in home page of the APP to add devices.
- If the controller is in the normal working state, you can hold ⏻ for 2 seconds to reset the Wi-Fi network, the device will enter the Smartconfig state by default, short press ⏻ to switch between the Smartconfig mode and the AP mode.

If the Wi-Fi state changes, it will take about 5 seconds to display the corresponding LCD symbols and state due to the data processing of the Wi-Fi module.

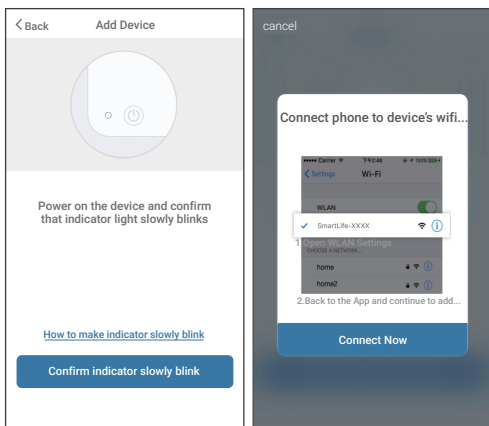
Add Devices in SmartConfig Mode

- Plug in the device and make sure that the device is in the Smartconfig state, the LCD symbol flashes rapidly in 250ms interval.
- Click “Confirm indicator rapidly blink” and select a preferred Wi-Fi network.
- Enter your Wi-Fi password and click “Confirm” to start connection.
- The device only supports 2.4GHz Wi-Fi Networks.

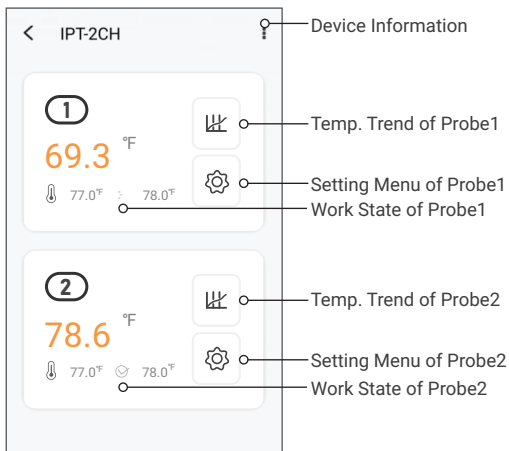
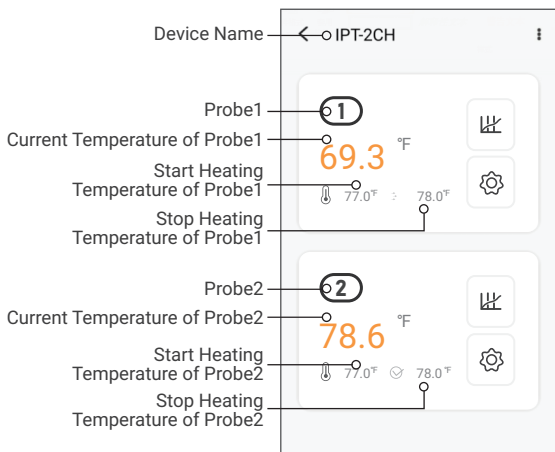


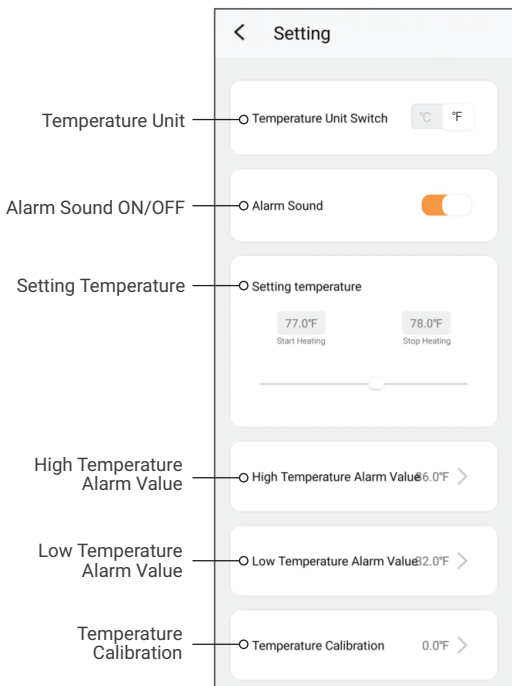
Add Devices in AP Mode:

- Plug in the device and make sure that the device is in the AP Configuration state, the LCD symbol flashes slowly in 1500ms interval.
- Click “Confirm indicator slowly blink” and select a preferred Wi-Fi network, enter the password and click “Confirm” to start connection.
- Click “Connect now” to go to your phone's WLAN setting page, select the “SmartLife-xxxx” to connect to the router.



- Go back to the app and click “Done” when the device is successfully connected to the Wi-Fi network.
- Then you can set and control the device via InkBird Pro app.

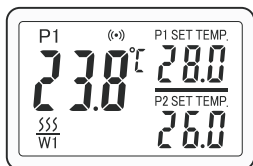
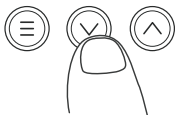
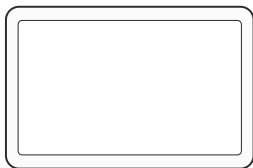




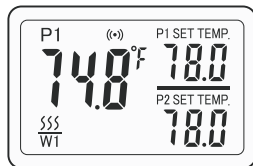
OPERATING INSTRUCTIONS

Factory Reset

- Unplug the controller, then hold  and plug in the power cord to reset the controller.



Display before the factory reset



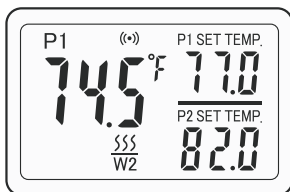
Display after the factory reset

Note: The buzzer will beep a short sound to remind you that all the parameters have been restored to the default data.

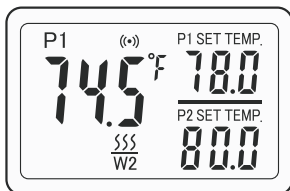
Quick Query of The Start Heating Temperature

For example, the start heating temperature of P1 is 77.0°F and the stop heating temperature is 78.0°F; the start heating temperature of P2 is 80.0°F, and the stop heating temperature of P2 is 82.0°F. The device displays the stop heating temperature of P1 and P2 by default.

- Press , the P1 SET TEMP. area will display the start heating temperature 77.0°F.



- Press  again, the P2 SET TEMP. area will display the start heating temperature 80.0°F.

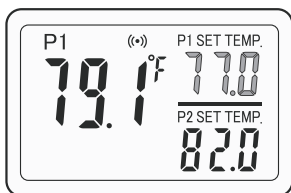


- The controller will return to normal display if there's no operation for 3 seconds, or you can press any button to return to normal display manually.

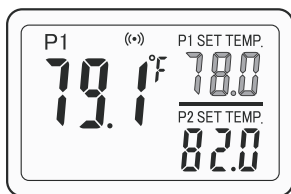
Quick Setup of The Controlling Temperature

For example, the start heating temperature of P1 is 77.0°F and the stop heating temperature is 78.0°F; the start heating temperature of P2 is 80.0°F, and the stop heating temperature of P2 is 82.0°F.

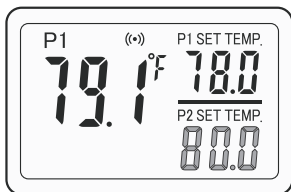
- Press  once, then the P1 SET TEMP 77.0 (the start heating temperature value) will flash.



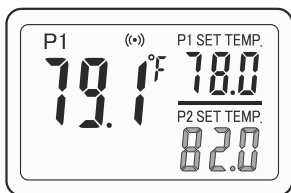
- Press  or  to adjust the start heating temperature value.
- Press  once, then the P1 SET TEMP 78.0 (the stop heating temperature value) will flash.



- Press  or  to adjust the stop heating temperature value.
- Press  once, then the P2 SET TEMP 80.0 (the start heating temperature value) will flash.



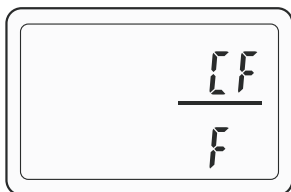
- Press or to adjust the start heating temperature value.
- Press once, then the P2 SET TEMP 82.0 (the stop heating temperature value) will flash.



- Press or to adjust the stop heating temperature value.
- The controller will save the settings and exit automatically if there's no operation in 30 seconds, or you can hold for 2 seconds to exit settings manually.

Temperature Unit Setting

- Hold for 2 seconds and press once again to enter the setting menu, then select CF.



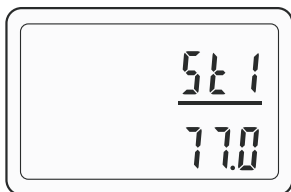
- Press $\checkmark$ or $\wedge$ to select between $^{\circ}\text{C}$ and $^{\circ}\text{F}$.

Note: The buzzer will beep a short sound to remind you that all the parameters have been restored to the default data.

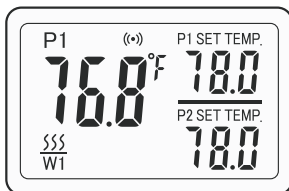
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.

Start Heating Temperature of P1(ST1)

- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select St1.

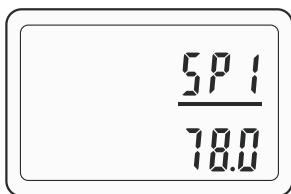


- Short press $\checkmark$ or $\wedge$ to adjust the setting values, hold $\checkmark$ or $\wedge$ to adjust the setting values quickly.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.
- When the current temperature of P1 is less than or equal to the start heating temperature of P1, WORK1 will turn on the output and the heating symbol will light up.

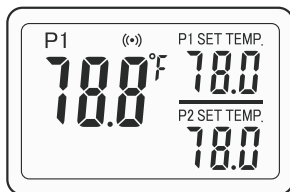


Stop Heating Temperature of P1(SP1)

- Hold  for 2 seconds and press  once again to enter the setting menu, then select SP1.

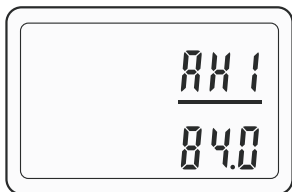


- Short press  or  to adjust the setting values, hold  or  to adjust the setting values quickly.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold  for 2 seconds to exit settings manually.
- When the current temperature of P1 is greater than or equal to the stop heating temperature of P1, WORK1 will turn off the output and the heating symbol will go out.

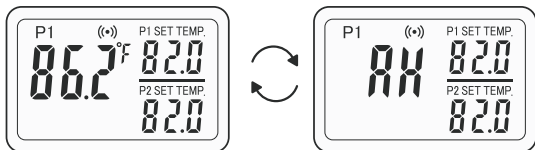


High Temperature Alarm of P1(AH1)

- Hold  for 2 seconds and press  once again to enter the setting menu, then select AH1.



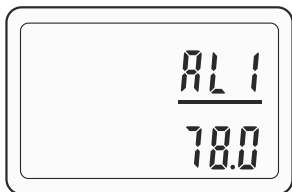
- Short press $\checkmark$ or $\wedge$ to adjust the setting values, hold $\checkmark$ or $\wedge$ to adjust the setting values quickly. For example 84.0°F
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.
- When the current temperature of P1 is greater than or equal to the high temperature alarm set value of P1, the high temperature alarm will be triggered, and AH will be displayed alternately with the current temperature.



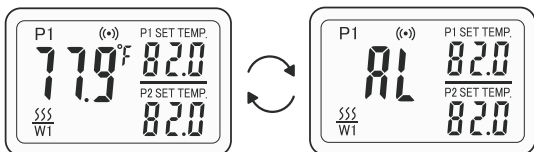
Note: If ALM = ON, the buzzer will sound Bi-Bi-Biii when the high temperature alarm is triggered, and it will stop when the temperature returns to normal. You can also press any button to manually cancel the alarm.

Low Temperature Alarm of P1(AL1)

- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select AL1.



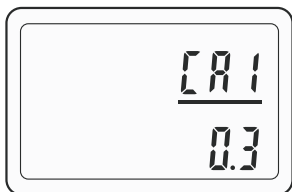
- Short press $\odot$ or $\triangle$ to adjust the low temperature alarm value, hold $\odot$ or $\triangle$ to adjust the setting values quickly. For example 78.0°F.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.
- When the current temperature of P1 is less than or equal to the low temperature alarm set value of P1, the low temperature alarm will be triggered, and AL will be displayed alternately with the current temperature.



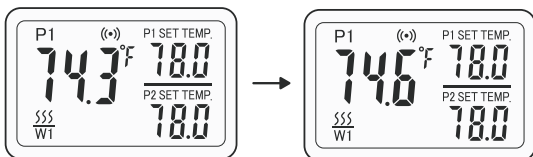
Note: If ALM = ON, the buzzer will sound Bi-Bi-Biii when the low temperature alarm is triggered, and it will stop when the temperature returns to normal. You can also press any button to manually cancel the alarm.

The Setting of The P1 Calibration Value(CA1)

- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select CA1.

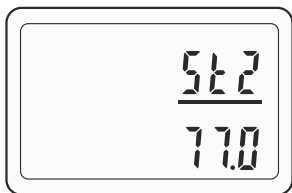


- Short press $\checkmark$ or $\wedge$ to adjust the setting values, hold $\checkmark$ or $\wedge$ to adjust the setting values quickly.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.
- The current temperature of P2 is 74.3°F. After setting CA1 (the temperature calibration value of P1) to 0.3°F, the current temperature displays 74.6°F.



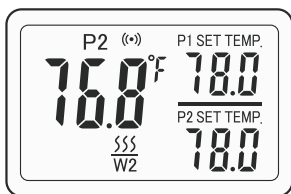
Start Heating Temperature of P2(ST2)

- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select ST2.



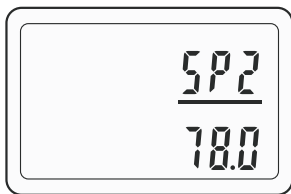
- Short press $\checkmark$ or $\wedge$ to adjust the setting values, hold $\checkmark$ or $\wedge$ to adjust the setting values quickly.

- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold  for 2 seconds to exit settings manually.
- When the current temperature of P2 is less than or equal to the start heating temperature of P2, WORK2 will turn on the output and the heating symbol will light up.

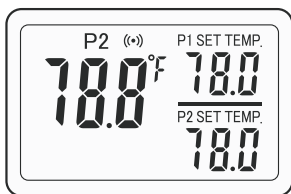


Stop Heating Temperature of P2(SP2)

- Hold  for 2 seconds and press  once again to enter the setting menu, then select SP2.

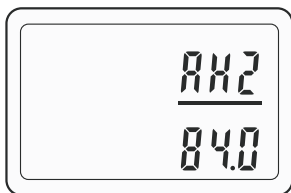


- Short press  or  to adjust the setting values, hold  or  to adjust the setting values quickly.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold  for 2 seconds to exit settings manually.
- When the current temperature of P2 is greater than or equal to the stop heating temperature of P2, WORK2 will turn off the output and the heating symbol will go out.

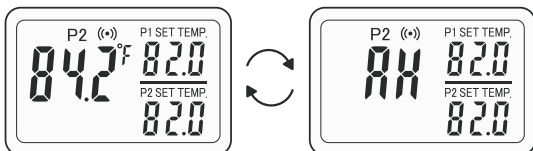


High Temperature Alarm of P2(AH2)

- Hold for 2 seconds and press once again to enter the setting menu, then select AH2.



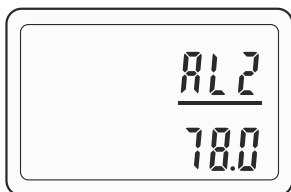
- Short press or to adjust the setting values, hold or to adjust the setting values quickly. For example 84.0°F
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold for 2 seconds to exit settings manually.
- When the current temperature of P2 is greater than or equal to the high temperature alarm set value of P2, the high temperature alarm will be triggered, and AH will be displayed alternately with the current temperature.



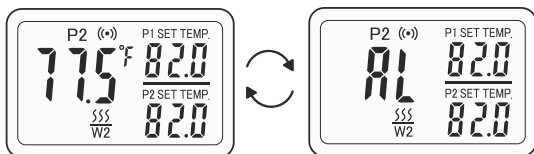
Note: If ALM = ON, the buzzer will sound Bi-Bi-Biii when the high temperature alarm is triggered, and it will stop when the temperature returns to normal. You can also press any button to manually cancel the alarm.

Low Temperature Alarm of P2(AL2)

- Hold ⏏ for 2 seconds and press ⏏ once again to enter the setting menu, then select AL2.



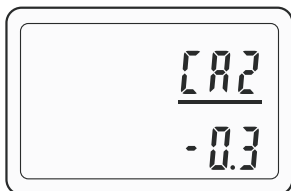
- Short press ⬆ or ⬆ to adjust the setting values, hold ⬆ or ⬆ to adjust the setting values quickly. For example 78.0°F.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold ⏏ for 2 seconds to exit settings manually.
- When the current temperature of P2 is less than or equal to the low temperature alarm set value of P2, the low temperature alarm will be triggered, and AL will be displayed alternately with the current temperature.



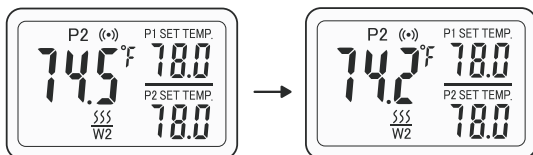
Note: If ALM = ON, the buzzer will sound Bi-Bi-Biii when the low temperature alarm is triggered, and it will stop when the temperature returns to normal. You can also press any button to manually cancel the alarm.

The Setting of The P2 Calibration Value(CA2)

- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select CA2.



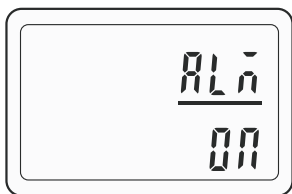
- Short press $\checkmark$ or $\wedge$ to adjust the setting values, hold $\checkmark$ or $\wedge$ to adjust the setting values quickly.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold $\equiv$ for 2 seconds to exit settings manually.
- The current temperature of P2 is 74.5°F. After setting CA2 (the temperature calibration value of P2) to -0.3°F, the current temperature displays 74.2°F.



Turn On/Off The Buzzer Sound Manually(ALM)

Users can choose whether to turn on the buzzer sound when the abnormal alarm is triggered according to their actual usage. If ON is selected, the buzzer will sound when the abnormal alarm is triggered; if OFF is selected, then the buzzer will not sound.

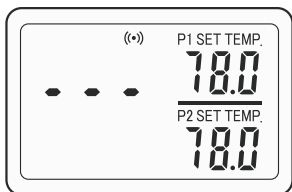
- Hold $\equiv$ for 2 seconds and press $\equiv$ once again to enter the setting menu, then select ALM.



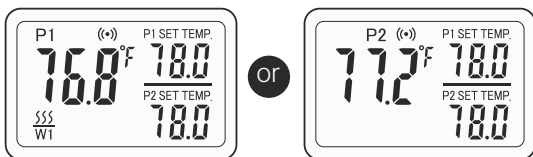
- Press or to choose ON or OFF.
- The controller will save the settings and exit automatically if there's no operation in 60 seconds, or you can hold for 2 seconds to exit settings manually.

Temperature Display

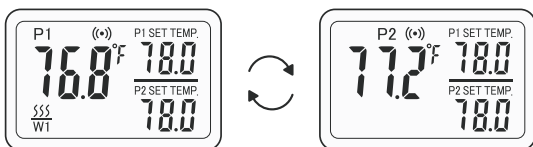
- The screen display when both probe1 and Probe2 are not inserted.



- The screen display when only one probe of Probe1 and Probe2 is inserted into the controller.

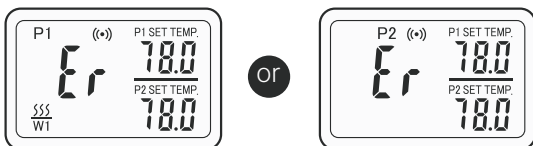


- The screen display when Probe1 and Probe2 are both inserted into the controller.



- The screen display when Probe1 or Probe2 is abnormal and the ALM=ON.

Note: The buzzer will sound at the same time.



Technical Assistance and Warranty

• Technical Assistance

If you have any problems installing or using this controller, please carefully and thoroughly review the instruction manual. If you require assistance, please write to us at support@inkbird.com. We will reply to your emails in 24 hours from Monday through Saturday. You can also visit our website www.inkbird.com to find the answers to the common technical questions.

• Warranty

INKBIRD TECH. C.L. warrants that products are free from defects in manufacturing, materials and workmanship for a period of 2 years from the date of retail purchase. 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.

Annex 1: Setting Parameters

Icons	Display	Function	Setting Range	Default Setting
CF	CF	Temperature Unit Setting	C/F	F
ST1	St1	Start Heating Temperature 1	0.0°C ~ 45.0°C	25.0°C
			32.0°F ~ 113.0°F	77.0°F
SP1	SP1	Stop Heating Temperature 1	0.0°C ~ 45.0°C	26.0°C
			32.0°F ~ 113.0°F	78.0°F
AH1	AH1	High Temperature Alarm Value 1	-5.0°C ~ 50.0°C	50.0°C
			23.0°F ~ 122°F	122°F
AL1	AL1	Low Temperature Alarm Value 1	-5.0°C ~ 50.0°C	0.0°C
			23.0°F ~ 122°F	32.0°F
CA1	CA1	Temperature Calibration Value 1	-4.9°C ~ 4.9°C	0.0°C
			-9.9°F ~ 9.9°F	0.0°F
ST2	St2	Start Heating Temperature 2	0.0°C ~ 45.0°C	25.0°C
			32.0°F ~ 113.0°F	77.0°F
SP2	SP2	Stop Heating Temperature 2	0.0°C ~ 45.0°C	26.0°C
			32.0°F ~ 113.0°F	78.0°F
AH2	AH2	High Temperature Alarm Value 2	-5.0°C ~ 50.0°C	50.0°C
			23.0°F ~ 122°F	122°F
AL2	AL2	Low Temperature Alarm Value 2	-5.0°C ~ 50.0°C	0.0°C
			23.0°F ~ 122°F	32.0°F
CA2	CA2	Temperature Calibration Value 2	-4.9°C ~ 4.9°C	0.0°C
			-9.9°F ~ 9.9°F	0.0°F
ALM	ALM	Turn on/off the buzzer sound	ON/OFF	ON

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

Support@inkbird.com

www.inkbird.com

+86-755-25738050

**4/F E, Bldg 713, Pengji Industrial Zone,
Liantang St, Luohu Dist, Shenzhen, China.**