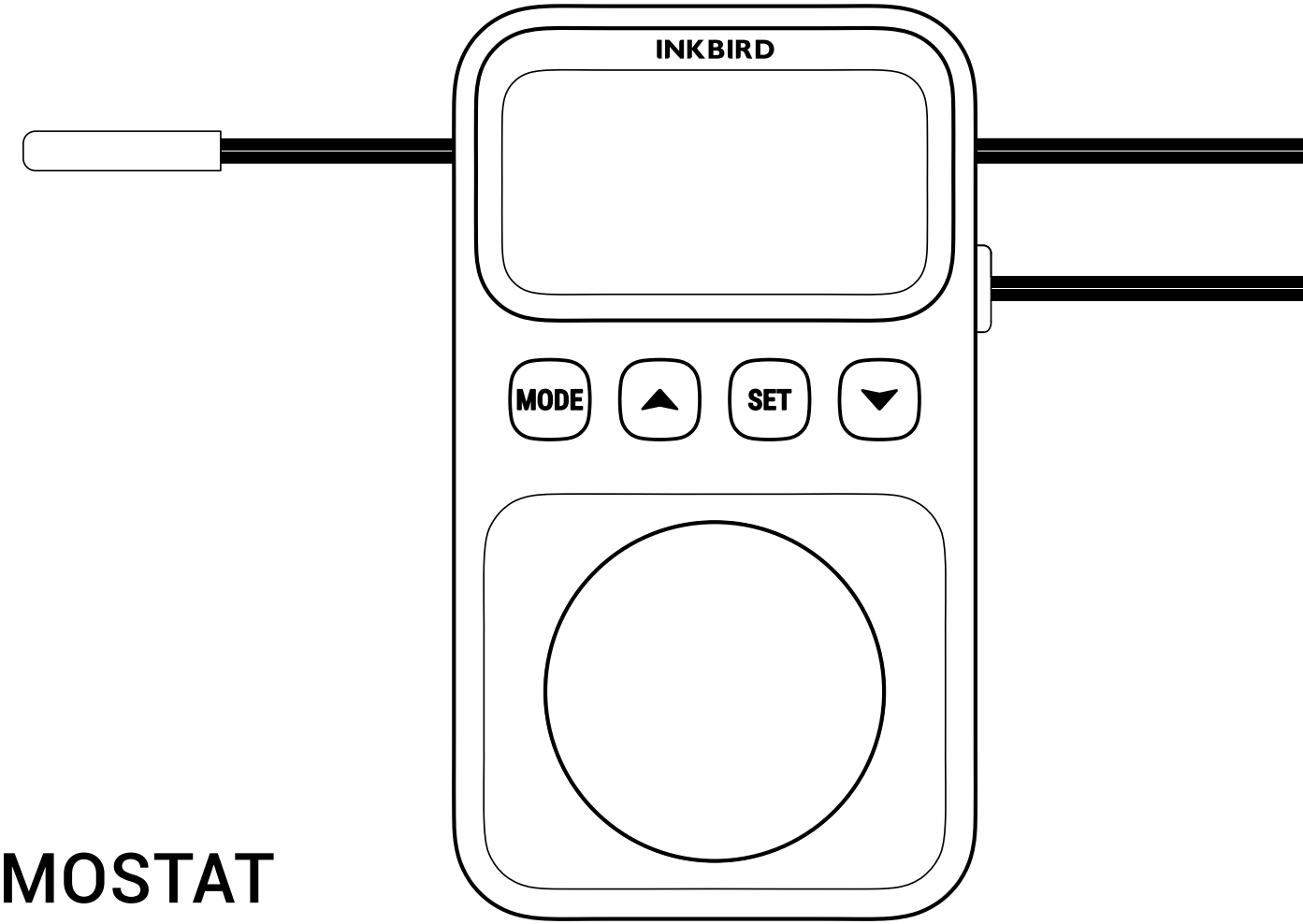
INKBIRD



C216T&C226T

PLUG-IN TIMER THERMOSTAT USER MANUAL

(US/EU/UK/AU/FR Optional)

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

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.**

01 Overview

The INKBIRD C216T&C226T Plug-in Timer Thermostat supports 3 operating modes—Temperature mode, Cycle Time mode and Countdown mode. The Temperature mode can control the plug-in heating or cooling device and provides high and low temperature alarms, temperature calibration, and refrigeration delay functions; the Cycle Time mode supports the functions of cyclic operation of ON and OFF; and the Countdown mode supports the functions of countdown ON, countdown OFF, countdown ON & OFF. This product is widely applicable to intelligent temperature control in heating, cultivation, seedling growing, wooden shed, home living and more.

02 Technical Specifications

Brand	*INKBIRD*	
Model	*C216T*	*C226T*
Input	*100~240Vac 50/60Hz, max 10A*	*100~240Vac 50/60Hz, max 16A*
Output	*100~240Vac 50/60Hz, max 10A 1200W(120Vac), 2200W(220Vac)*	*100~240Vac 50/60Hz, max 16A 1800W(120Vac), 3680W(220Vac)*
Temperature Control Range	*-40 ~212 /-40 ~100*	
Temperature Display Error	*0.1 /*	
Temperature Measurement Error	*±2.0 /±1.0*	
Refrigeration Delay Time	*0~10 minutes*	

Temperature Calibration Range	*-8.8 ~8.8 /-4.9 ~4.9*
Maximum Timing Range	*99 hours and 59 minutes*
Alarm Function	*Supports high and low temperature alarms (buzzer can be turned on or off)*
Memory Function	*Save all parameters on the device after a power failure*
Time Error	*±2 seconds per day*
Operating Temperature	*Room temperature*
Storage Temperature	*32 ~140 /0 ~60*
Storage Humidity	*20%RH~80%RH (non-condensing)*

03 Product Diagram

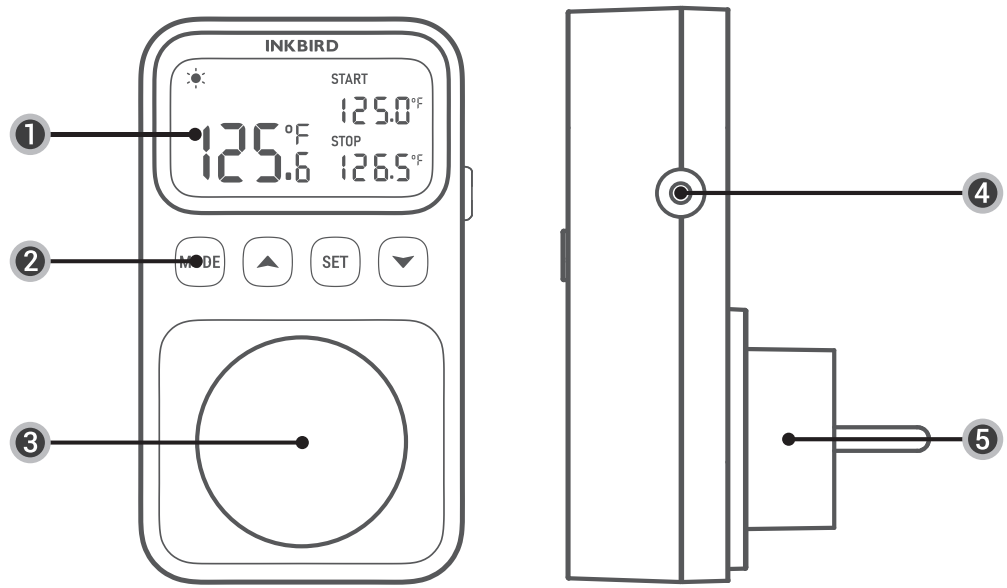
❶ LCD with white light

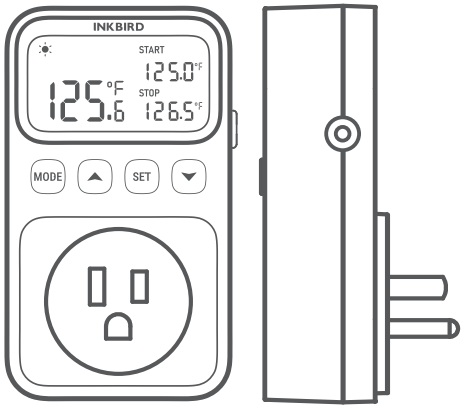
❷ Operational Button
(MODE / ▲ / SET / ▼)

❸ Output
(US/EU/UK/AU/FR)

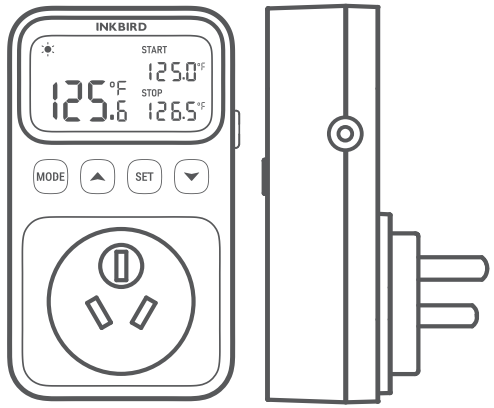
❹ Temperature Probe
(Length: 2m/78.7inches; IP67 waterproof)

❺ Input
(US/EU/UK/AU/FR)

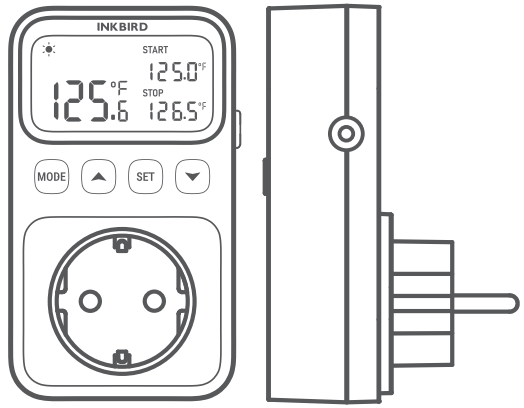



INKBIRD
START
125.0°F
125.6°F
STOP
126.5°F
MODE
SET

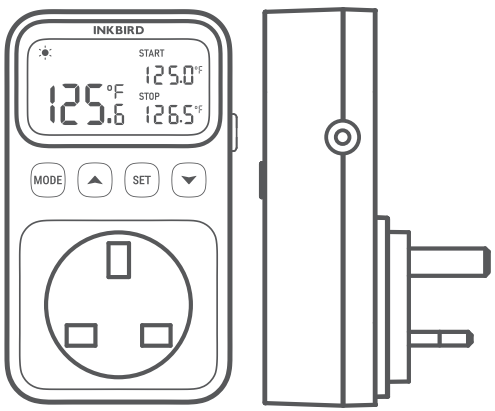
US


INKBIRD
START
125.0°F
125.6°F
STOP
126.5°F
MODE
SET

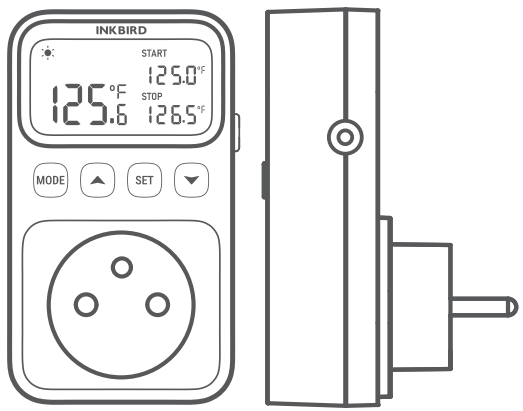
AU


INKBIRD
START
125.0°F
125.6°F
STOP
126.5°F
MODE
SET

EU

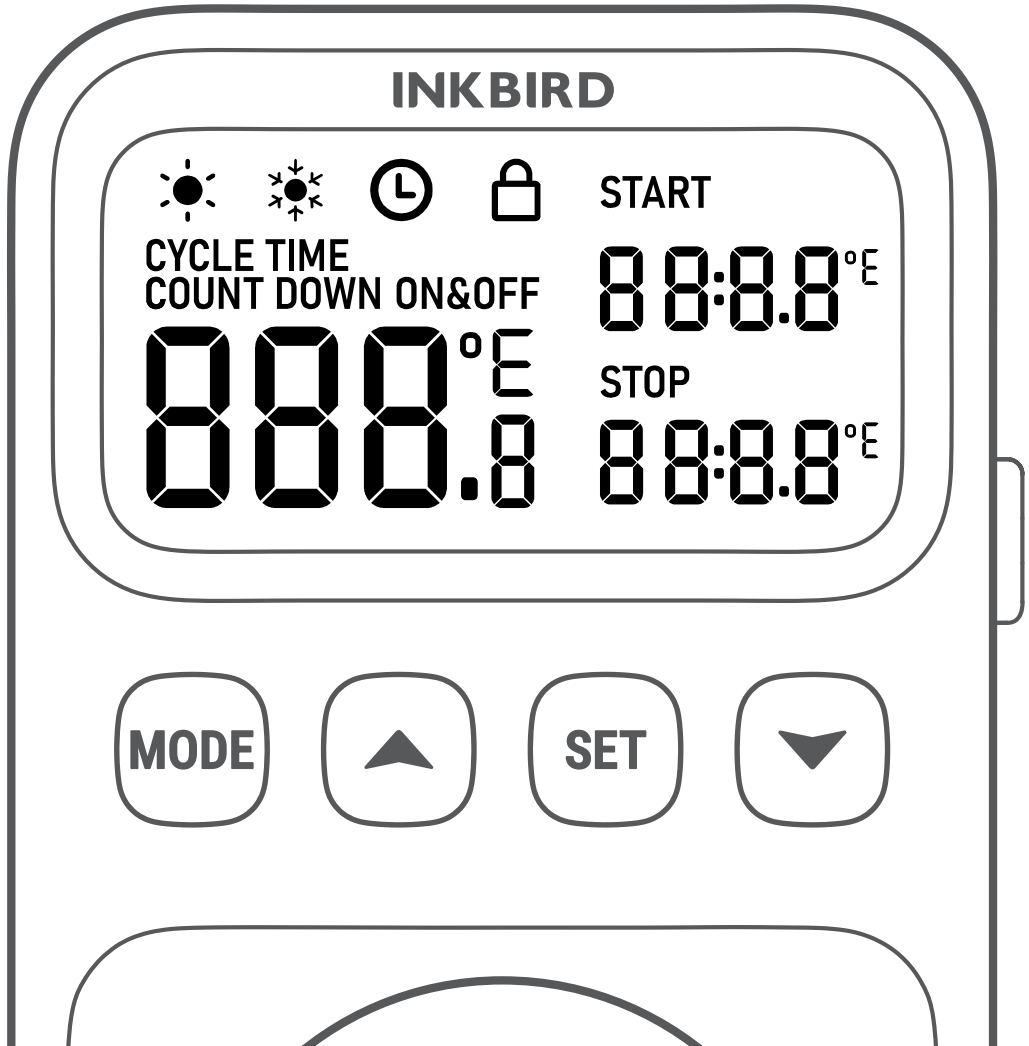

INKBIRD
START
125.0°F
125.6°F
STOP
126.5°F
MODE
SET

UK


INKBIRD
START
125.0°F
125.6°F
STOP
126.5°F
MODE
SET

FR

04 LCD Definitions



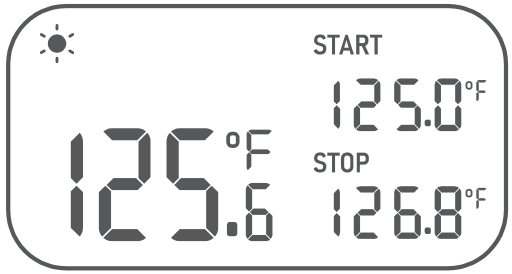
ICON	FUNCTION
	*Heating function; remains lit when heating.*
	*Cooling function; remains lit when cooling.*
	*Child lock.*
	*Cycle Time Mode and Countdown Mode; indicates the operating state, and remains lit when the power is switched on.*
	*Cycle Time Mode: Set duration of power on and off. The START time is how long the power remains on. The STOP time is how long the power remains off.*
	*Countdown Mode: Turn ON the power at the end of the countdown.*
	*Countdown Mode: Turn OFF the power at the end of the countdown.*
	*Countdown Mode: Count down to power on, then count down to power off.* *START time means when the countdown is completed, the power is switched ON;* *STOP time means when the countdown is completed, the power is switched OFF.*

ICON	FUNCTION
	*Temperature unit: C (Celsius) or F (Fahrenheit).*
	*High-temperature alarm: AH flashes when the buzzer sounds.*
	*Low-temperature alarm: AL flashes when the buzzer sounds.*
	*Refrigeration delay.*
	*Temperature calibration.*
	*Backlight on/off.*
	*Buzzer on/off.*

05 Operational Buttons Definitions

BUTTON	FUNCTION
MODE	*Short press to switch between OFF Mode, Temperature Mode, Cycle Time Mode, Countdown ON, Countdown OFF, and Countdown ON&OFF.*
SET	***Temperature Mode:*** *Short press to enter the temperature setting; press and hold for 2 seconds to enter/exit the setting of C/F conversion, high/low temperature alarm, refrigeration delay, temperature calibration, and backlight.* ***Cycle Time Mode and Countdown Mode:*** *Press and hold for 2 seconds to enter/exit time setting; press briefly to start/stop timing. In the state of adjusting any parameter, if there is no operation for 30 seconds, it will automatically save and exit the setting.*
▲	*Press to increase the parameter; long pressing for quick adjustment.*
▼	*Press to decrease the parameter; long pressing for quick adjustment.*
▲ + ▼	*In non-setting state, press and hold the ▲ and ▼ buttons simultaneously for 3 seconds to turn the child lock on or off.*

06 Operation Instructions

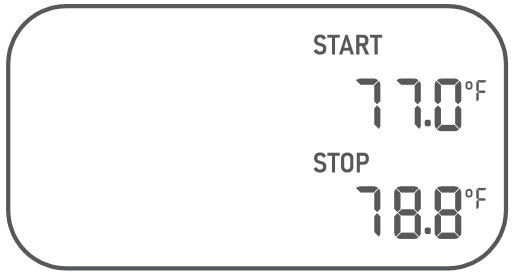


6.1 Operating Guidelines for Temperature Control Mode

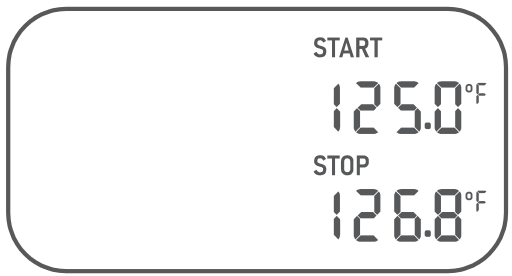
Briefly press the MODE button to switch to temperature mode, which displays the current temperature on the left, the start temperature on the top right, and the stop temperature on the bottom right.

Heating & Cooling: *When the START temperature is lower than the STOP temperature, it is the heating function; when the START temperature is higher than the STOP temperature, it is the cooling function.*

6.1.1 Set Start and Stop Temperatures



Step 1 :
Briefly press the SET button, and the temperature under START will flash. Press the ▲ or ▼ button to adjust the parameter, which is set to 25.0 /77.0 by default.



Step 2 :
Briefly press the SET button, and the temperature under STOP will flash. Press the ▲ or ▼ button to adjust the parameter, which is set to 26.0 /78.8 by default.

Step 3 :
Briefly press the SET button or do nothing for 30 seconds to save and exit the parameter setting.

6.1.2 Set Other Parameters

Step 1 :

Press and hold the SET button for 2 seconds to enter the temperature unit menu, which displays the character "CF" on the left and C or F flashing on the right. Press the ▲ or ▼ button to choose C or F. C is the default value for items with EU/UK/AU/FR plugs, and F for US plugs.

Step 2 :

Briefly press the SET button to enter the high-temperature alarm menu, which displays "AH" on the left and its parameter flashing on the right. Press the ▲ or ▼ button to adjust the parameter, which is set to 100 /212 by default.

Step 3 :

Briefly press the SET button to enter the low-temperature alarm menu, which displays "AL" on the left and its parameter flashing on the right. Press the ▲ or ▼ button to adjust the parameter, which is set to -40 /-40 by default.

Step 4 :
Briefly press the SET button to enter the refrigeration delay time menu, which displays "Pt" on the left and its parameter flashing on the right. Press the ▲ or ▼ button to adjust the parameter, which is set to 00:00 by default.

Step 5 :
Briefly press the SET button to enter the temperature calibration menu, which displays "CA" on the left and its parameter flashing on the right. Press the ▲ or ▼ button to adjust the parameter, which is set to 0.0 /0.0 by default.

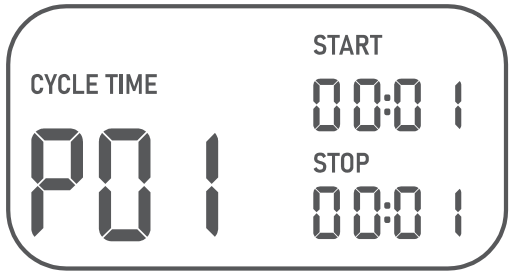
Step 6 :
Briefly press the SET button to enter the backlight on or off menu, which displays "bL" on the left. Press the ▲ or ▼ button to select ON (turn on), which means that the backlight will remains lit; select OFF (turn off), the backlight will automatically turn off if there is no operation for 30 seconds. The backlight is set to OFF by default.

NOTE: When the backlight is set to OFF, the backlight can be turned on by pressing any button and will automatically turn off after 30 seconds of no operation.

Step 7 :
Short press the SET button to enter the buzzer on/off menu, which displays bU on the left. Press the ▲ or ▼ button to select ON (the buzzer will sound when the alarm is triggered); or OFF (the buzzer will not sound when the alarm is triggered). The default setting is ON.

Step 8 :
Press and hold the SET button for 2 seconds or do nothing for 30 seconds to save and exit the parameter setting.

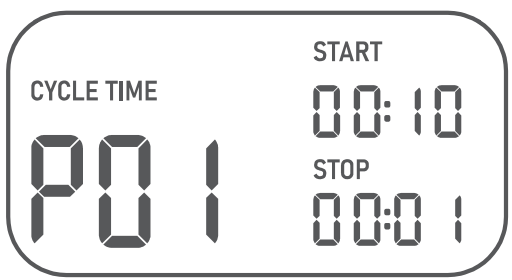
6.2 Operating Guidelines for Cycle Time Mode



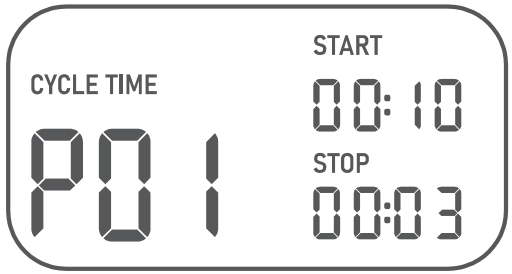
Briefly press the MODE button to select the Cycle Time mode, which displays **CYCLE TIME** and P01 on the left, START and 00:01 on the top right, and STOP and 00:01 on the bottom right.

NOTE: The default value of 00:01 represents 1 minute and is the minimum setting.

6.2.1 Set Parameters for the CYCLE TIME Mode



Step 1 :
Press and hold the SET button for 2 seconds to enter the setting, and 00:01 under START will flash. Press the ▲ or ▼ button to adjust the parameter.



Step 2 :

Briefly press the (SET) button, and 00:01 under STOP will flash. Press the (▲) or (▼) button to adjust the parameter.

Step 3 :

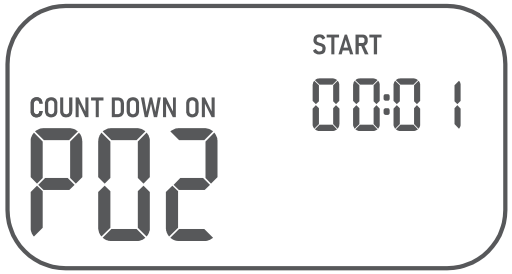
Press and hold the (SET) button for 2 seconds or do nothing for 30 seconds to save and exit the parameter setting.

6.2.2 Start/Stop the Cycle Time Mode

After saving START and STOP times, briefly press the (SET) button to perform the Cycle Time mode, in which the power is switched on and the START countdown starts (which means the heating/cooling device starts working). At the end of the START countdown, the power is switched off and the STOP countdown starts (which means the heating/cooling device stops working). At the end of the STOP countdown, the controller automatically switches to the START countdown. It will then run in a closed loop of START and STOP countdowns (START Countdown → STOP Countdown → START Countdown → STOP Countdown...) until you press the (SET) button to stop it.

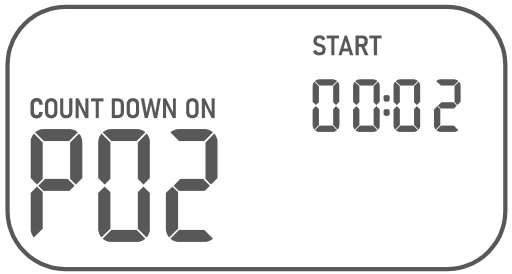
6.3 Countdown Mode

6.3.1 Countdown ON Mode



Briefly press the (MODE) button to select the Countdown ON mode, which displays **COUNT DOWN ON** and P02 on the left and START 00:01 on the right.

6.3.1.1 Set Parameters for the COUNTDOWN ON Mode



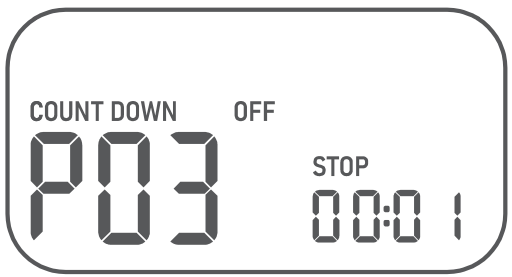
Step 1 :
Press and hold the (SET) button for 2 seconds to enter the setting, and 00:01 under START will flash. Press the (▲) or (▼) button to adjust the parameter.

Step 2 :
Press and hold the (SET) button for 2 seconds or do nothing for 30 seconds to save and exit the parameter setting.

6.3.1.2 Start/Stop the Countdown ON Mode

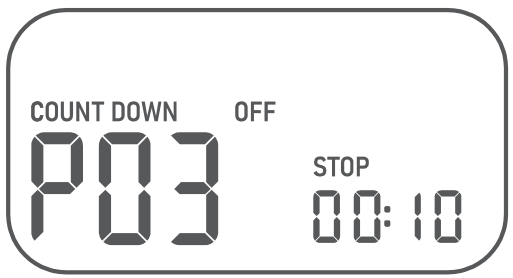
After saving the START time, press the SET button to start the countdown. At the end of the countdown, the power is switched on, which means the heating/cooling device enters a working state and keeps working until you press the SET button to stop it.

6.3.2 Countdown OFF Mode



Briefly press the MODE button to select the Countdown OFF mode, which displays **COUNT DOWN OFF** and P03 on the left and STOP 00:01 on the right.

6.3.2.1 Set Parameters for the COUNTDOWN OFF Mode



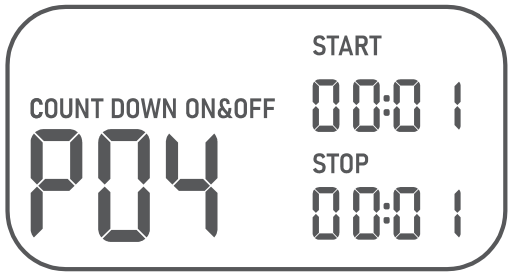
Step 1 :
Press and hold the SET button for 2 seconds to enter the setting, and 00:01 under STOP will flash. Press the ▲ or ▼ button to adjust the parameter.

Step 2 :
Press and hold the SET button for 2 seconds or do nothing for 30 seconds to save and exit the parameter setting.

6.3.2.2 Start/Stop the COUNTDOWN OFF Mode

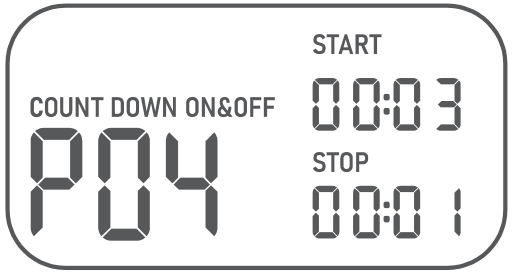
After saving the STOP time, press the SET button to start the countdown, which will switch on the power and start the heating/cooling device. At the end of the countdown, the power is switched off and the heater/cooler stops working.

6.3.3 Countdown ON&OFF Mode

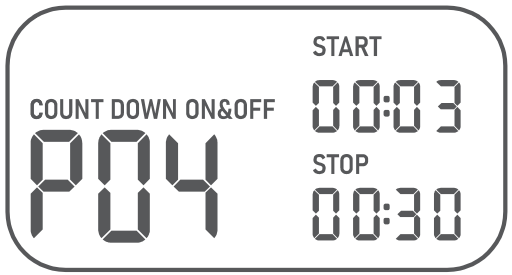


Briefly press the MODE button to select the Countdown ON&OFF mode, which displays **COUNT DOWN ON&OFF** and P04 on the left and shows START 00:01 and STOP 00:01 on the right.

6.3.3.1 Set Parameters for the COUNTDOWN ON&OFF Mode



Step 1:
Press and hold the SET button for 2 seconds to enter the parameter setting, and 00:01 under START will flash. Press the ▲ or ▼ button to adjust the parameter.



Step 2:
Briefly press the SET button, and 00:01 under STOP will flash. Press the ▲ or ▼ button to adjust the parameter.

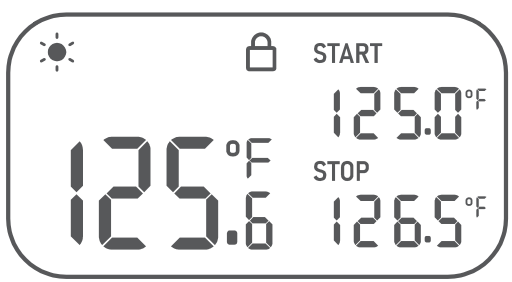
Step 3:
Press and hold the SET button for 2 seconds or do nothing for 30 seconds to save and exit the parameter setting.

6.3.3.2 Start/Stop the COUNTDOWN ON&OFF Mode

After saving the time parameters, press the SET button to commence the START countdown. At the end of the START countdown, the power is switched on, and the heating/cooling device starts working. In the meantime, the controller switches to the STOP countdown. At the end of the STOP countdown, the power is switched off and the heating/cooling device stops working.

6.4 OFF Mode

Briefly press the MODE button to select the OFF mode, in which the character "OFF" appears on the screen and the controller shuts down.



6.5 Child Lock Mode

In non-setting state, press and hold the ▲ and ▼ buttons simultaneously for 3 seconds to turn the child lock on or off. When it is turned on, the 🔒 symbol remains lit.

6.6 Factory Reset

First unplug the controller, then plug it back in while holding down the ▼ button to factory reset all settings.

07 *Default Parameters(for EU/UK/AU/FR, for US)*

Parameters	***Default Value***	***Range***
Temperature unit	*/*	*/*
High temperature alarm value	*100.0 /212.0*	*-40.0 -100.0 /-40.0 -212.0*
Low temperature alarm value	*-40.0 /-40.0*	*-40.0 -100.0 /-40.0 -212.0*
Calibration temperature	*0.0 /0.0*	*-4.9 ~4.9 /-8.8 ~8.8*
Refrigeration delay time	*00:00*	*00:00-00:10*
Backlight switch	*OFF*	*ON/OFF*
Buzzer switch	*ON*	*ON/OFF*
Start temperature	*25.0 /77.0*	*-40.0 -100.0 /-40.0 -212.0*
Stop temperature	*26.0 /78.8*	*-40.0 -100.0 /-40.0 -212.0*
START time	*00:01*	*00:01-99:59*
STOP time	*00:01*	*00:01-99:59*

08 Cleaning and Maintenance

8.1 This product is a strong electrical product, not waterproof, and not suitable for cleaning. If it is necessary to clean it, this unit must be disconnected from the power supply and can only be cleaned by wiping it with a dry cloth.

8.2 When not in use, this product should be stored in a safe and dry place; damp environments will cause components to age more easily due to moisture, reducing their life expectancy.

09 Important Notes/Warnings

9.1 KEEP CHILDREN AWAY.

9.2 USE INDOORS ONLY TO REDUCE THE RISK OF ELECTRIC SHOCK.

9.3 DO NOT CONNECT TO OTHER RELOCATABLE POWER SOURCES OR EXTENSION CORDS.

9.4 USE IN A DRY PLACE ONLY.

9.5 DO NOT PLACE NEAR WATER TO REDUCE THE RISK OF ELECTRIC SHOCK.

9.6 DO NOT EXPOSE TO HIGH TEMPERATURES.

9.7 THE HOUSING OF THE TEMPERATURE PROBE IS MADE OF STAINLESS STEEL MATERIALS. WIPE OFF ANY STAINS TO AVOID AFFECTING THE ACCURACY OR RESPONSE TIME OF THE PROBE.

9.8 DO NOT CONNECT IT TO A PRODUCT THAT IS NOT RATED FOR ITS VOLTAGE, WHICH MAY CAUSE FIRE HAZARDS.

10 *Troubleshooting Guide*

Issues	***Possible Solution***
Incorrect probe readings	*Wipe to clean the stainless steel part of the probe and blow with a hairdryer to completely evaporate the moisture inside the probe (making sure that the device is disconnected from the power supply).*

Failure to switch on or off the heating/cooling output	*1. Test the electric power:* *A. Unplug the controller, and plug a heating or cooling device. (Note that the device voltage must not exceed the rated voltage of this product.)* *B. Press and hold the SET button (until the Controller is turned on).* *C. Connect the power supply to start up, and release the SET button.* *D. Press the ▲ button, not the ▼ button, and the symbol will light up on the LCD, indicating that the output is open. At this point, check that the unit is turned on.* *2. Please check that the load power of the external device is within the rated power of this product, 1200W(120Vac) or 2200W(220Vac) for C216T; 1800W(120Vac) or 3680W(220Vac) for C226T.* *If the above operational steps still do not resolve your issue, please contact our customer support team.*
The screen of the controller gets stuck/frozen.	*Unplug the controller and reboot it. If the problem persists, please contact Customer Support.*
The controller will sound an alarm and AL/AH will flash on the screen. How to turn off the AL/AH alarm sound?	*See details on 06 Operation Instructions 6.1.2.*

Probe readings are changing repeatedly (sudden rise or fall)/Readings are changing very slowly.	*Wipe to clean the stainless steel part of the probe and blow with a hairdryer to completely evaporate the moisture inside the probe (making sure that the device is disconnected from the power supply).*
The screen does not show any readings/light up after the probe is inserted.	*Check that the power socket is electrified. If the problem persists, please contact Customer Support.*
Outlet melted/burnt	*Please check that the load power of the external device is within the rated power of this product, 1200W(120Vac) or 2200W(220Vac) for C216T; 1800W(120Vac) or 3680W(220Vac) for C226T, or contact Customer Support instead.*
Deficient screen display	*Please contact Customer Support.*
The screen keeps flashing	
The sound of electricity is audible.	
Displaying ER	

11 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.

12 *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.

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.

INKBIRD TECH.C.L.

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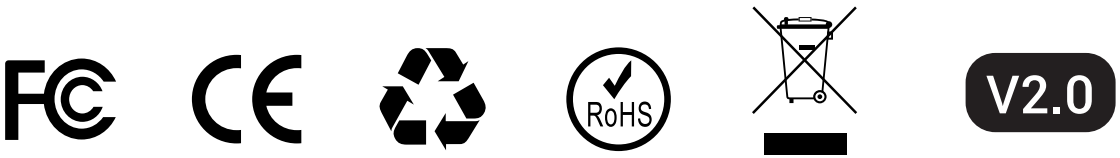

MADE IN CHINA
DESIGNED BY INKBIRD