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INKBIRD

INKBIRD C216T-C226T Plug In Timer Thermostat



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.



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.

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 sheds, home living, and more.

Technical Specifications

<i>Brand</i>	<i>INKBIRD</i>	
<i>Model</i>	<i>C216T</i>	<i>C226T</i>
<i>Input</i>	<i>100~240Vac 50/ 60Hz, ma x 10A</i>	<i>100~240Vac 50/ 60Hz, ma x 16A</i>

Output	100~240Vac 50/ 60Hz, max 10A 1200W (120Vac), 2200W(220Vac)	100~240Vac 50/ 60Hz, max 16A 1800W (120Vac), 3600W(220Vac)
Temperature Control Range	-40 ~212 1- 40 ~ 100	
Temperature Display Error	0.1 /	
Temperature Measurement Error	$\pm 2.0 / \pm 1.0$	
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)

Product Diagram

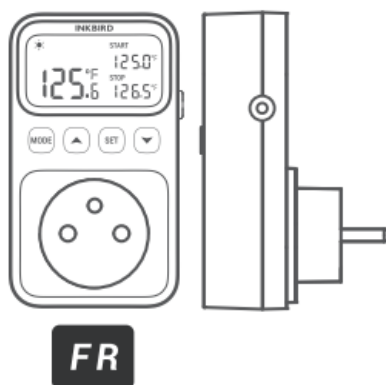
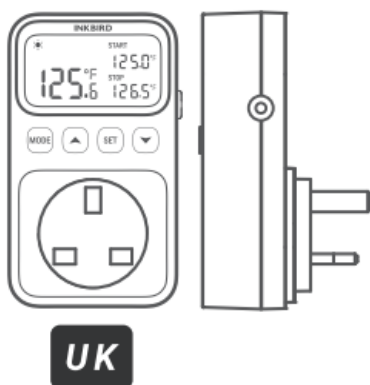
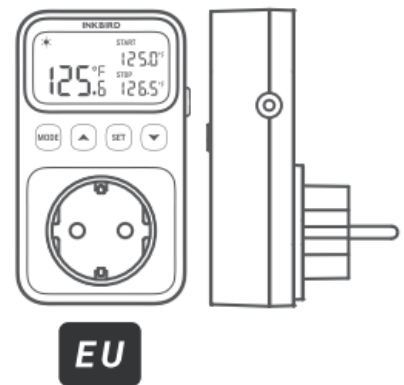
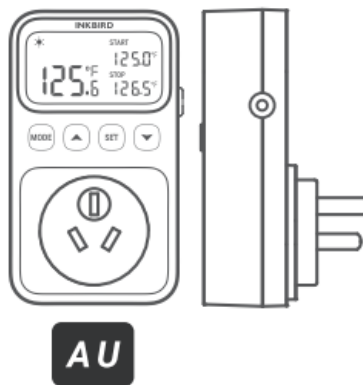
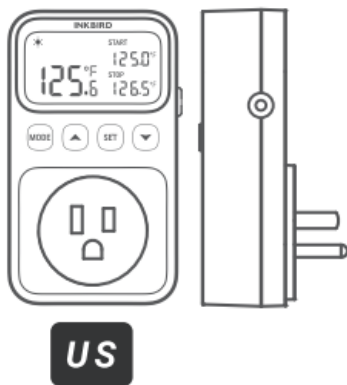
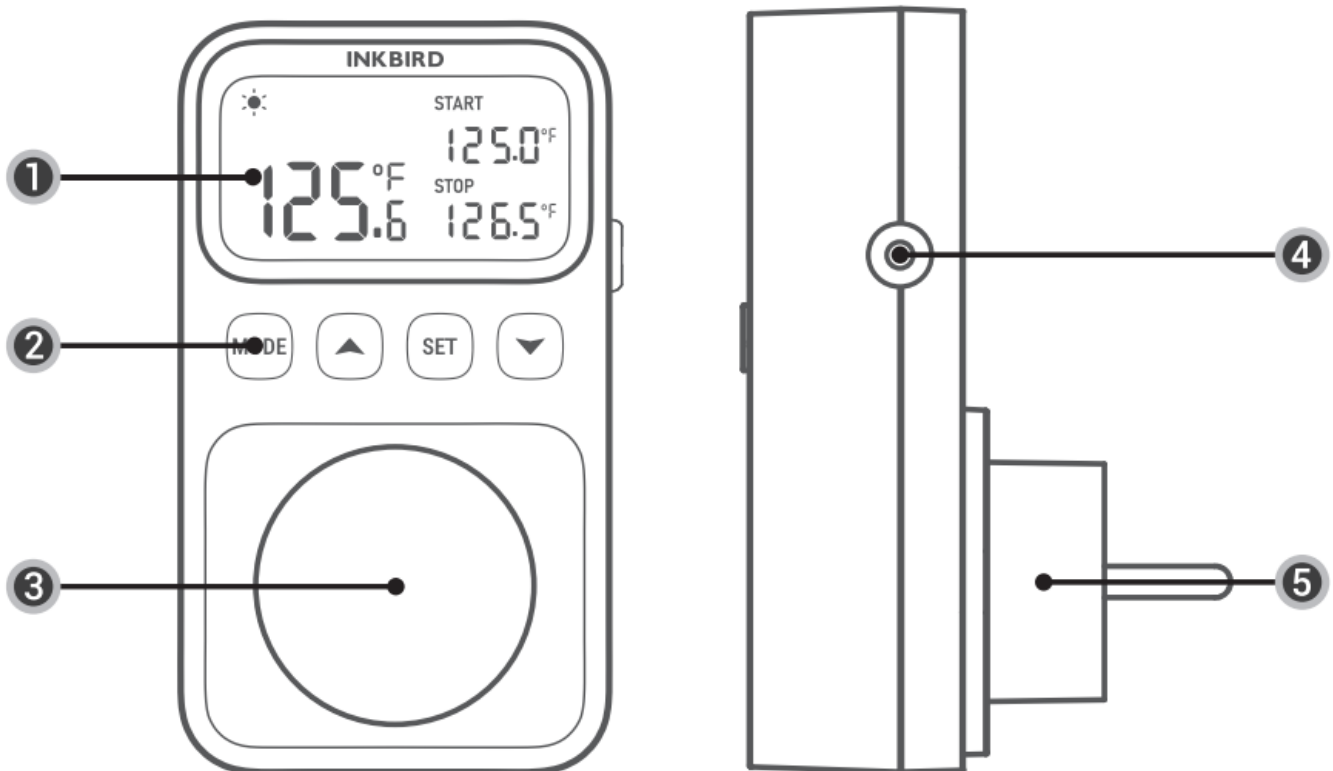
1. LCD with white light

2. Operational Button ( /  /  / )

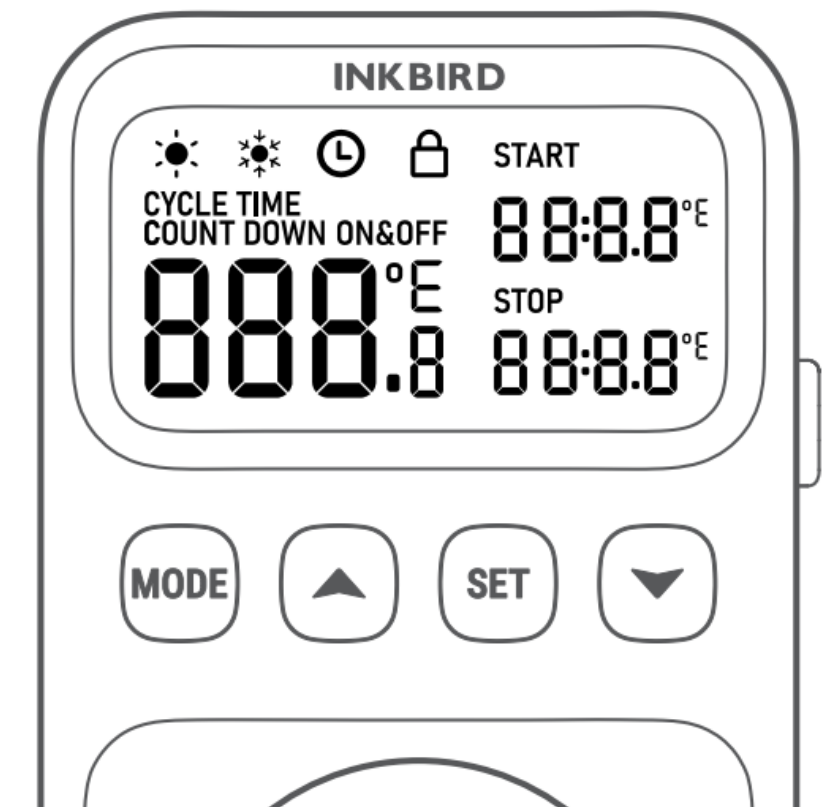
3. Output (US/EU/UK/ AU/FR)






4. **Temperature Probe**

5. **Input** (US/EU/UK/ AU/FR)







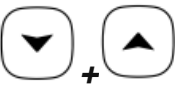


LCD Definitions



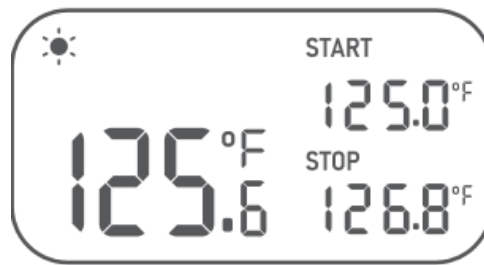
ICON	FUNCTION
	Heating function: remains <i>lit</i> when heating.
	The cooling function remains <i>lit</i> when cooling.
	<i>Child lock.</i>
	<i>Cycle Time Mode and Countdown Mode indicate the operating state, and remain lit</i> When the power is switched on.
	<i>Cycle Time Mode: Set the duration of power on and off. The START time is how long the power remains on. The STOP time is how long the power remains off.</i>

P02	<i>Countdown Mode: Turn ON the power at the end of the countdown.</i>
P03	<i>Countdown Mode: Turn OFF the power at the end of the countdown.</i>
P04	<i>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.</i>


ICON	FUNCTION
CF	<i>Temperature unit: C (Celsius) or F (Fahrenheit).</i>
AH	<i>High-temperature alarm: AH flashes when the buzzer sounds.</i>
AL	<i>Low-temperature alarm: AL flashes when the buzzer sounds.</i>
PL	<i>Refrigeration delay.</i>
CR	<i>Temperature calibration.</i>
BL	<i>Backlight on/off.</i>
BU	<i>Buzzer on/off.</i>

BUTTON	FUNCTION
	<p>Short press to switch between OFF Mode, Temperature Mode, Cycle Time Mode, Countdown ON, Countdown OFF, and Countdown ON&OFF.</p>
	<p>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.</p> <p>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.</p>
	<p>Press to increase the parameter; long pressing for quick adjustment.</p>
	<p>Press to decrease the parameter; long pressing for quick adjustment.</p>
	<p>In non-setting state, press and hold the anEJ buttons simultaneously for 3 seconds to turn the child lock on  or  off.</p>

Operation Instructions



Operating Guidelines for Temperature Control Mode

- Briefly press the  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.

Set Start and Stop Temperatures






Step 1


Briefly press the  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.



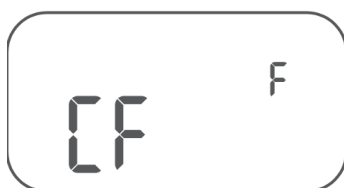
Step 2:

Briefly press the  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:

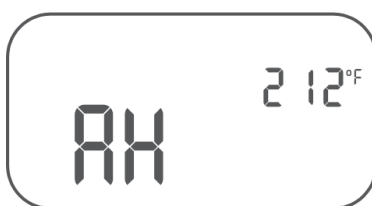
Briefly press the  button or do nothing for 30 seconds to save and exit the parameter setting.

Set Other Parameters






Step 1

Press and hold the  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.






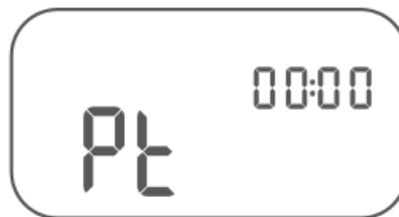
Step 2:

Briefly press the  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 1 00 /212 by default.






Step 3:

Briefly press the  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.






Step4:

Briefly press the  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  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  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 remain 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  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.

Steps: 8

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



Operating Guidelines for Cycle Time Mode




Briefly press the  button to select the Cycle Time mode, which displays CYCLE TIME and  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.






Set Parameters for the CYCLE TIME Mode


Step 1:

Press and hold the  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  button, and 00:01 under STOP will flash. Press the  or  button to adjust the parameter.

Step 3:

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



Start/Stop the Cycle Time Mode

After saving START and STOP times, briefly press the  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  button to stop it

Countdown Mode





Countdown ON Mode

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




Set Parameters for the COUNTDOWN ON Mode



Step 1:

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

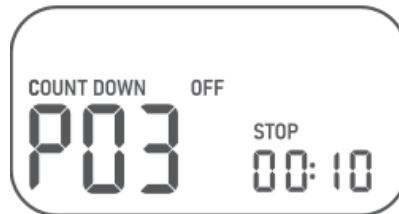
Start/Stop the Countdown ON Mode

After saving the START time, press the  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  button to stop it.






Countdown OFF Mode

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




Set Parameters for the COUNTDOWN OFF Mode


Step 1:

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

Start/Stop the COUNTDOWN OFF Mode

After saving the STOP time, press the  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.



Countdown ON&OFF Mode




Briefly press the  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.






Set Parameters for the COUNTDOWN ON&OFF Mode


Step 1:

Press and hold the  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  button, and 00:01 under STOP will flash. Press the  or  button to adjust the parameter.

Step 3:


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

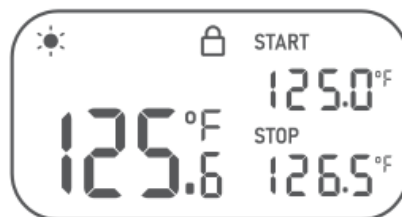
Start/Stop the COUNTDOWN ON&OFF Mode

After saving the time parameters, press the  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.






OFF Mode


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



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.

Factory Reset

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

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

<i>Parameters</i>	<i>Default Value</i>	<i>Range</i>
<i>Temperature unit</i>	<i>l</i>	<i>l</i>
<i>High temperature alarm value</i>	<i>100.0 / 212.0</i>	<i>-40.0 -100.0 / -40.0 -212.0</i>
<i>Low temperature alarm value</i>	<i>-40.0 / -40.0</i>	<i>-40.0 -100.0 / -40.0 -212.0</i>
<i>Calibration temperature</i>	<i>0.0 / 0.0</i>	<i>-4.9 ~4.9 / -8.8 ~8.8</i>

<i>Refrigeration delay time</i>	<i>00:00</i>	<i>00:00-00:10</i>
<i>Backlight switch</i>	<i>OFF</i>	<i>ON/OFF</i>
<i>Buzzer switch</i>	<i>ON</i>	<i>ON/OFF</i>
<i>Start temperature</i>	<i>25.0/77.0</i>	<i>-40.0 -100.0 / -40 .0 -212.0</i>
<i>Stop temperature</i>	<i>26.0 /7 8.8</i>	<i>-40.0 -100.0 / -40 .0 -212.0</i>
<i>STARTtime</i>	<i>00:01</i>	<i>00:0 7- 99:59</i>
<i>STOP time</i>	<i>00:01</i>	<i>00:01 -99:59</i>

Cleaning and Maintenance

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.
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.

Important Notes/Warnings

1. KEEP CHILDREN AWAY.
2. USE INDOORS ONLY TO REDUCE THE RISK OF ELECTRIC SHOCK.
3. DO NOT CONNECT TO OTHER RELOCATABLE POWER SOURCES OR EXTENSION CORDS. 9.4 USE IN A DRY PLACE ONLY.
4. DO NOT PLACE NEAR WATER TO REDUCE THE RISK OF ELECTRIC SHOCK.
5. DO NOT EXPOSE TO HIGH TEMPERATURES.
6. THE HOUSING OF THE TEMPERATURE PROBE IS MADE OF STAINLESS STEEL MATERIALS.
7. WIPE OFF ANY STAINS TO AVOID AFFECTING THE ACCURACY OR RESPONSE TIME OF THE PROBE.
8. DO NOT CONNECT IT TO A PRODUCT THAT IS NOT RATED FOR ITS VOLTAGE,

WHICH MAY CAUSE FIRE HAZARDS.

Troubleshooting Guide

<i>Issues</i>	<i>Possible Solution</i>
<i>Incorrect probe readings</i>	<i>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).</i>

<p>Failure to switch on or off the heating/cooling output</p>	<p>7. Test the electric power:</p> <p>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.)</p> <p>B. Press and hold the button (until the Controller is turned on).</p> <p>C. Connect the power supply to start up, and release the button.</p> <p>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.</p> <p>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</p> <p>If the above operational steps still do not resolve your issue, please contact our customer support team.</p>
<p>The screen of the controller gets stuck/frozen.</p>	<p>Unplug the controller and reboot it. If the problem persists, please contact Customer Support.</p>

<p><i>The controller will sound a n alarm and ALI AH will fla sh on the screen. How to tum off the ALI AH alarm sound?</i></p>	<p><i>See details on 06 Operation Instructions 6.1.2.</i></p>
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<p><i>Probe readings are changi ng repeatedly (sudden ris e or fall)/Readings are cha nging very slowly.</i></p>	<p><i>Wipe to clean the stainless steel part of the probe and bl ow with a hairdryer to completely evaporate the moisture inside the probe (making sure that the device is disconne cted from the power supply).</i></p>
<p><i>The screen does not show any readings/light up after the probe is inserted.</i></p>	<p><i>Check that the power socket is electrified. If the problem persists, please contact Customer Support.</i></p>
<p><i>Outlet melted/burnt</i></p>	<p><i>Please check that the load power of the external device i s 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 instea d.</i></p>
<p><i>Deficient screen display</i></p>	
<p><i>The screen keeps flashing</i></p>	
<p><i>The sound of electricity is audible.</i></p>	

Displaying ER

Please contact Customer Support.

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 the 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.

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.

INKBIRD TECH.C.L.

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- **Manufacturer:** Shenzhen Inkbird Technology Co., Ltd.
- **Factory Address:** 6th Floor. Building 713. Pengji Liantang Industrial Area. No.2 Pengxing Road. Luohu District. Shenzhen. China

MADE IN CHINA

- DESIGNED BY INKBIRD

FAQs

What is the temperature control range of the INKBIRD C216T-C226T?

The temperature control range is -40°F to 212°F (-40°C to 100°C), allowing it to manage various heating or cooling devices effectively.

Can the INKBIRD C216T-C226T control both heating and cooling devices?


Yes, it supports both heating and cooling modes, helping maintain a stable temperature for aquariums, greenhouses, fermentation, or pet enclosures.

Does the INKBIRD C216T-C226T have a timer function?

Yes, it includes a dual-stage timer function, which allows users to set specific periods for

the thermostat to operate, ideal for automated schedules like day/night temperature control.

Documents / Resources

	INKBIRD C216T-C226T Plug In Timer Thermostat [pdf] User Manual C216T, C226T, C216T-C226T Plug In Timer Thermostat, C216T-C226T, Plug In Timer Thermostat, In Timer Thermostat, Timer Thermostat, Thermostat
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References

- [User Manual](#)

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C216T, C216T-C226T, C216T-C226T Plug In Timer Thermostat, C226T, In Timer Thermostat, INKBIRD, Plug In Timer Thermostat, Thermostat, Timer Thermostat

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