INKBIRD

ITC-306T WIFI

Temperature Controller

Contents

Part 1 Quick Guide to Use

01 | CAUTION

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

ATTENTION:

- ELOGIGANEZ LES ENFANTS
- Pour réduire le d'électrocution, Pour Usage Ã L'Intérieur Seulement.
- Risque de choc électrique. Ne pas brancher dans une autresource de courant portative ou une rallonge.
- UTILISER UNIQUEMENT DANS DES EMPLACEMENTS SECS

02 | Specification

Model: ITC-306T-WIFI
Brand name: INKBIRD
Input: 120Vac 60Hz 10A/1200W MAX
Output: 120Vac 60Hz 10A/1200W (total two receptacles)
Disconnection means: Type 1B
Pollution degree: 2
Rated impulse voltage: 1500V
Automatic action: 6000 cycles

Temperature Probe (optional)

Type of temperature probe: R25°C=10KΩ±1%,
R0°C=26.74~27.83KΩ , B25/85°C=3435K±1%
Temperature control range: -50°C~99.0°C/-58.0°F~210°F
Temperature measurement range:
-50.0°C~120°C/-58.0°F~248°F
Temperature display accuracy:
-0.1°C/°F(<100°C/°F),1°C/°F(<=100°C/°F)

Temperature measurement accuracy:

Range of Temperature(T) Celsius	Celsius Error	Range of Temperature(T) Fahrenheit	Fahrenheit Error
-50℃≤T<10℃	±2℃	-58℉≤T<50℉	±3℉
10℃≤T<100℃	±1℃	50℉≤T<212℉	±2℉
100℃≤T<120℃	±2℃	176℉≤T<248℉	±3℉

Ambient

Ambient temperature: Room temperature
Storage environment:
temperature: 0°C~60°C/32°F~140°F;
humidity: 20~80%RH (Unfrozen or condensationstate)

Warranty

Controller: Two years warranty
Temperature Probe: One year warranty

03 Technical Assistance and Warranty

3.1 Technical Assistance

If you have any problems installing or using this controller, please refer to the instruction manual for guidance. If you require further assistance, please email us at **support@inkbird.com**. We will reply within 24 hours, Monday to Saturday. Alternatively, you can visit our official website (www.inkbird.com) to find answers to common technical questions.

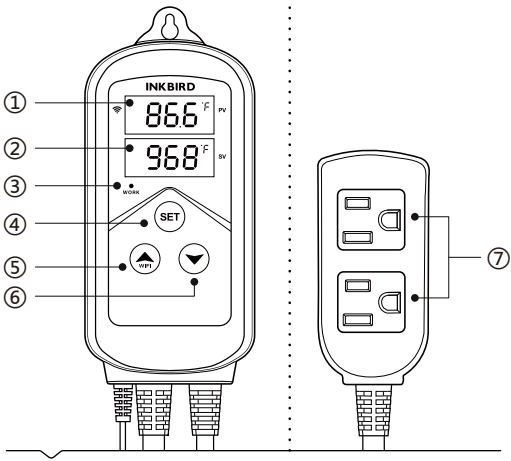
3.2 Warranty

INKBIRD TECH CO., LTD warrants this controller (one year for the temperature probe) against defects caused by INKBIRD's workmanship or materials for two years (one year for the temperature probe) from the date of purchase, provided it is operated under normal conditions by the original purchaser (not transferable). This warranty is limited to the repair or replacement (at INKBIRD's discretion) of all or part of the controller.

Part 2

ITC-306T WIFI
TEMPERATURE
Controller Manual

01 | Control Panel



① PV: In the normal mode, it displays the current temperature; in the setting mode, it displays menu code.

② SV: In the normal mode, it displays the temperature at which the heating is stopped; in the setting mode, it displays menu setting.

③ Red indicator: ON-heating output is turned on; OFF-heating output is turned off.

④⑤⑥ Set Key (SET), Increase Key (WIFI), Decrease Key : Please refer to**"6.1 Button Instruction"** for more details.

⑦ Output socket: Both sockets are only for heating.

02 | INKBIRD APP Setting

2.1 Download the APP

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

2.2 Pair with your phone

① Open the app, it will ask you to register or log in your account on the APP. Select the country and enter Email to finish the registration. Then press “Add Home” button to create your home.

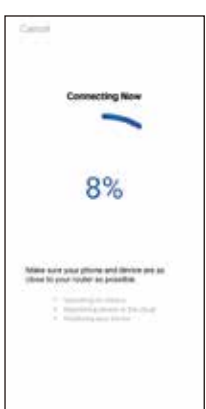
② Tap “+” or “add device” button in home page of the APP to add the device.

③ If the controller is in the normal working state, you can long press 2 seconds to reset the Wi-Fi. It will enter the Smartconfig configuration state by default. You can short press to switch the Smartconfig

configuration state and the AP mode. If you change the Wi-Fi state, it will take about 5 seconds to display the corresponding LED symbol and state, because of the Wi-Fi module data processing.

Add device in quick connection:

- Plug the device in the socket and make sure that the device is in the Smartconfig.
- Configuration state (the LED symbol is flashing, interval flashing 250ms). Click “Confirm indicator rapidly blink” and then select Wi-Fi network, enter Wi-Fi password, click “confirm” to enter connection process.
- The device only supports 2.4GHz Wi-Fi router.

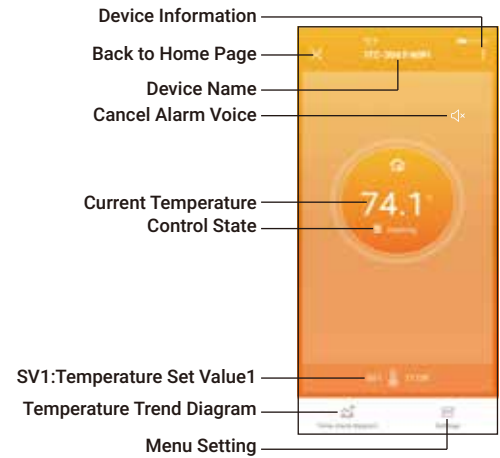


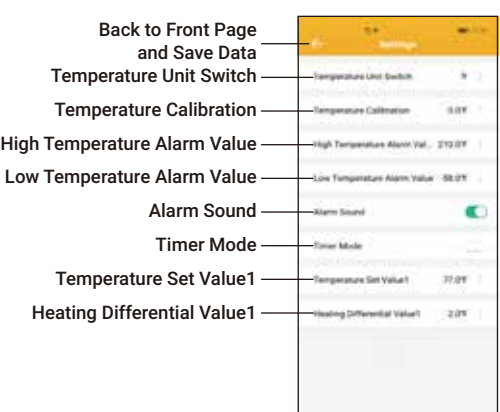
Add device in AP mode:

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

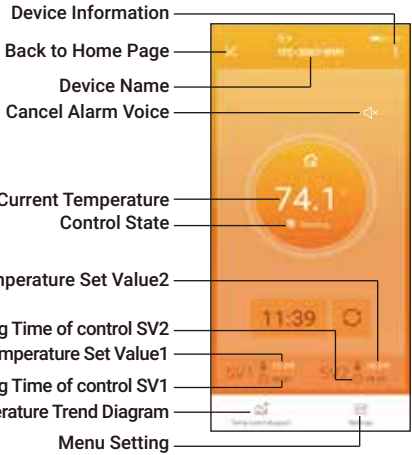
④ Click “Done” after device is added succeedfully and enter into device controlling interface .
⑤ In the temperature control mode, user can set control function via APP.

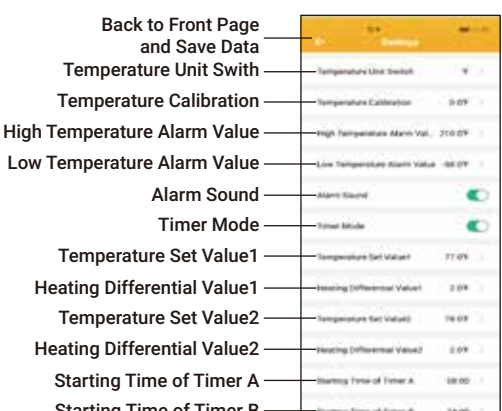
Normal Mode


Device Information
Back to Home Page
Device Name
Cancel Alarm Voice
Current Temperature
Control State
SV1:Temperature Set Value1
Temperature Trend Diagram
Menu Setting
74.1


Back to Front Page
and Save Data
Temperature Unit Switch
Temperature Calibration
High Temperature Alarm Value
Low Temperature Alarm Value
Alarm Sound
Timer Mode
Temperature Set Value1
Heating Differential Value1

Timer Mode


Device Information
Back to Home Page
Device Name
Cancel Alarm Voice
Current Temperature
Control State
SV2:Temperature Set Value2
The Starting Time of control SV2
SV1:Temperature Set Value1
The Starting Time of control SV1
Temperature Trend Diagram
Menu Setting
74.1
11:39


Back to Front Page and Save Data
Temperature Unit Swith
Temperature Calibration
High Temperature Alarm Value
Low Temperature Alarm Value
Alarm Sound
Timer Mode
Temperature Set Value1
Heating Differential Value1
Temperature Set Value2
Heating Differential Value2
Starting Time of Timer A
Starting Time of Timer B

03 | Function Instruction

3.1 Button Instruction

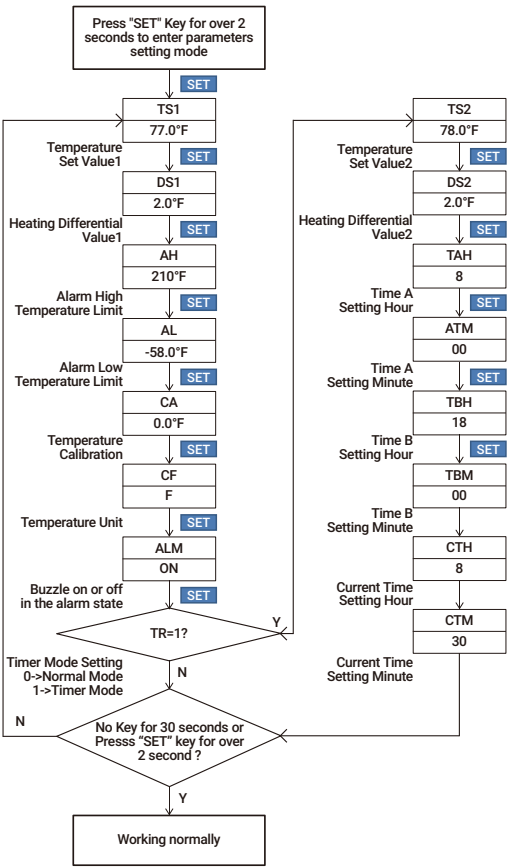
3.1.1 Factory Reset

Hold the " ⏷ " button to power on, the buzzer will beep once, and all parameters will restore to factory settings.

3.1.2 Button Instruction in the Setting Mode

When the controller is working normally, press " SET " key for 2 seconds to enter parameter setting mode. PV window displays the first menu code "TS1", while SV window displays the setting value. Press the " SET " button to scroll down the menu and save the previous menu parameters, press the " ⏶ " or " ⏷ " button to change the current setting value. If there is no button operation within 30 seconds or long press the " SET " button for 2 seconds in the setting state, it will exit and save the setting state, then return to the normal working mode.

3.2 Menu Setting Flow Chart



3.3 Setup Menu Instruction

Menu Code	Display Symbol	Menu Function	Setting Range	Default Setting	Remarks
TS1	tS1	Temperature Set Value 1	-50.0℃~99.0℃	25.0℃	6.4.1
			-58.0℉~210℉	77.0	
DS1	dS1	Heating Differential Value 1	0.3℃~15.0℃	1.0℃	
			1.0℉~30.0℉	2.0℉	
AH	AH	High Temperature Alarm	-50.0℃~99.0℃	99.0℃	6.5
			-58.0℉~210℉	210℉	
AL	AL	Low Temperature Alarm	-50.0℃~99.0℃	-50.0℃	
			-58.0℉~210℉	-58.0℉	
CA	CA	Temperature Calibration	-15.0℃~15.0℃	0.0℃	6.6
			-15.0℉~15.0℉	0.0℉	
CF	CF	Fahrenheit or Celsius Setting	C/F	F	6.7
ALM	ALn	Buzzer Sound	ON/OFF	ON	6.8
TR	tr	Timer Mode Setting	0: Normal Mode 1: Timer Mode	0: Normal Mode	6.4.2

When TR=1, the time mode function is on, the menu settings are as follows.

Menu Code	Display Symbol	Menu Function	Setting Range	Default Setting	Remarks
TS2	tS2	Temperature Set Value 2	-50.0℃~99.0℃	26.0℃	6.4.2
			-58.0℉~210℉	78.0	
DS2	dS2	Heating Differential Value 2	0.3℃~15.0℃	1.0℃	
			1.0℉~30.0℉	2.0℉	
TAH	tAH	Time A setting Hour	0~23 hours	08	
TAM	tAn	Time A setting Minute	0~59 minutes	00	
TBH	tbH	Time B setting Hour	0~23 hours	18	
TBM	tbn	Time B setting Minute	0~59 minutes	00	
CTH	CtH	Current Hour Setting	0~23 hours	08	
CTM	Ctn	Current Minute Setting	0~59 minutes	30	

3.4 Control Function Instruction

3.4.1 Temperature Control Instruction in the Normal Mode (TS1,DS1,TR=0)

When the controller is working normally, PV window displays the measured temperature, SV window displays temperature set value.

When the measured temperature PV ≥ TS1 (Temperature Set Value1), the WORK indicator is off, the output sockets turn off; When the measured temperature PV ≤ TS1 (Temperature Set Value1)-DS1 (Heating Differential Value 1), the WORK indicator is on, and the output sockets turn on.

For example, TS1=25.0°C, DS1=3.0°C, when the measured temperature ≤ 22°C (TS1-DS1), the output sockets turn on; when the measured temperature ≥ 25°C (TS1), the output sockets turn off.

3.4.2 Temperature Control Instruction in the Timer Mode (TS1, DS1, TR=1 , TS2, DS2, TAH, TAM, TBH, TBM, CTH, CTM)

When TR=0, the timer mode function is off, the parameters TS2, DS2, TAH, TAM, TBH, TBM, CTH, CTM don't show up in the menu.

When TR=1, the Timer Mode is on. Time A~Time B~Time A is a cycle, 24 hours.

During Time A~Time B, the controller runs as TS1 (Temperature Set Value1) and DS1 (Heating Differential Value1); during Time B~Time A, the controller runs as TS1

(Temperature Set Value2) and DS1(Heating

Differential Value2).
For example: Set TS1=25, DS1=2, TR=1, TS2=18, DS2=2, TAH=8, TAM=30, TBH=18, TBM=00, CTH=9, CTM=30, CTH and CTM are the current time setting, the setting time is 9:30.
During 8:30-18:00 (Time A~Time B), the temperature controls between 22°C (TS1-DS1)~25°C (TS1);
During 18:00-8:30 (Time B~Time A), the temperature controls between 16°C (TS2-DS2)~18C (TS2).

3.5 High/Low Temperature Alarm (AH,AL)

When the measured temperature ≥ High Temperature Alarm (AH), it will alarm and turn off heating output. The PV window will display "AH" and the measured temperature at the 1Hz frequency alternately , buzzer will "Bi-Bi-Biii" when ALM=ON, until the measured temperature < AH, buzzer will be off and return to normal display and control. Or press any button to turn the buzzer alarm off;

When the measured temperature ≤ Low Temperature Alarm (AL), it will alarm. The PV window will display "AL" and the measured temperature at the 1Hz frequency alternately, buzzer will "Bi-Bi-Biii" when ALM=ON, until the temperature > AL, buzzer will be off and return to normal display and control. Or press any button to turn the buzzer alarm off.

Note: The Low Temperature Alarm (AL) should be less than the High Temperature Alarm (AH). The high or low temperature

alarm will be pushed to mobile APP and remind the user that the device is in alarm state.

3.6 Temperature Calibration (CA)

When there is deviation between measured temperature and actual temperature, the temperature calibration function can be used to calibrate the measured value and make it consistent with the standard value, the calibrated temperature = the measured temperature value + the calibration value.

3.7 Display in Fahrenheit or Celsius unit (C/F)

Optional setting the display unit as Fahrenheit or Celsius. The default temperature unit is Fahrenheit. In need of displaying in Celsius , set CF value as C.

Note: When CF is changed, all setting values will be restored to the default setting and the buzzer will beep once.

3.8 Buzzer Sound ON/OFF Under Abnormal Alarm (ALM)

Users can choose whether to turn on the sound function of the buzzer when an abnormal alarm occurs according to actual use. When choosing ON, the buzzer will make a sound, when choosing OFF, the buzzer will close the sound when there is abnormal alarm.

04 | Error Situation

4.1 Probe Error

The PV window show Er when the probe is not plugged in properly or there is short circuit inside the probe. When ALM=ON, the buzzer will kept beeping, the sound can be cut off by press any button.

4.2 Time Error

When time abnormal, PV window indicate Err. When ALM=ON, the buzzer will kept beeping, the sound can be cut off by press any button.

4.3 Time Reset Error

When TR=1, when the device is power-on again after power off, and when PV window alternately display the current temperature and TE at 1 Hertz frequency. If ALM=ON, the buzzer will go off every two seconds which mean the timer should be reset. You can press any button to stop the alarm, if long press for 2 seconds, it will enter to the setting menu and skip to CTH menu code,

setting the CTH and CTM value then save the parameter, the device will back to normal operation; normal operation can also be restored by tapping the synchronization time via the app.

05 How to deal with common problems in APP use?

Status	possible cause	preliminary solution
Login Failure	Incorrect account and password	Re-type password and confirm
	Network server under maintenance	Try again later
Connection Failure	Misoperation (Ignore important steps)	Confirm the correct steps and try again
	Incorrect WiFi password	Plain-text input password
	Poor network condition	Try again or change network environment
	Phone model & system version	Switch to another phone and try again
Data Load Failure	Network server under maintenance	Try again later
APP Black Screen	Running app takes up too much memory	Clear the running APP
	Incomplete installation	Uninstall INKBIRD App and re-install

06 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.

07 | IC Warning

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic
Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1)This device may not cause interference.
(2)This device must accept any interference, including interference that may cause undesired operation of the device.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your
body.

L'émetteur/récepteur exempt de licence contenu

dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
(1)L'appareil ne doit pas produire de brouillage;
(2)L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 etla conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne surl'exposition et la conformité de rf.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ouémetteur.

Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

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V1.0 MADE IN CHINA
DESIGNED BY INKBIRD