



Precision Thermo-probe

Vestemp BP20

User Manual



Advanced Cuisine Technology PTE. LTD

Website: www.advanced-cuisine.com

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Disclaimer

Please read this manual thoroughly before use. It contains all the necessary safety instructions related to the machinery, designed to guide qualified personnel in the proper installation, operation, and maintenance of all machines. It is crucial to adhere strictly to the guidelines provided in this manual when using the machine. Our company will not accept responsibility for any consequences arising from non-compliance with these instructions.

Important Safeguards

- Do not use the probe at temperatures above 300°C / 572°F for more than 20 minutes.
- Do not use the probe in a microwave or pressure cooker.
- Do not place the charger near or on any high-temperature surface.
- Do not immerse the probe in cold water immediately after cooking; allow it to cool before cleaning.
- Do not use cleaning products containing alcohol, ammonia, benzene, or abrasives, as they may damage the product.
- The probe is sharp, so use it cautiously and keep it away from children or individuals with certain disabilities.
- If the probe comes into direct contact with a heat source, immediately stop heating and wait for it to cool before removing the probe.
- Be careful when removing the probe from food after cooking to avoid burns.
- The charger is not waterproof; do not immerse it in water or clean it in a dishwasher.
- Charge the charger with the voltage specified on the label.

WEEE Warning

	<p>The WEEE logo on this product or its documentation indicates the product must not be disposed of as household waste. To prevent possible harm to human health or the environment, the product must be disposed of in an authorized waste collection point. For further information on how to dispose of this product correctly, contact the local authority responsible for the waste management in your area.</p>
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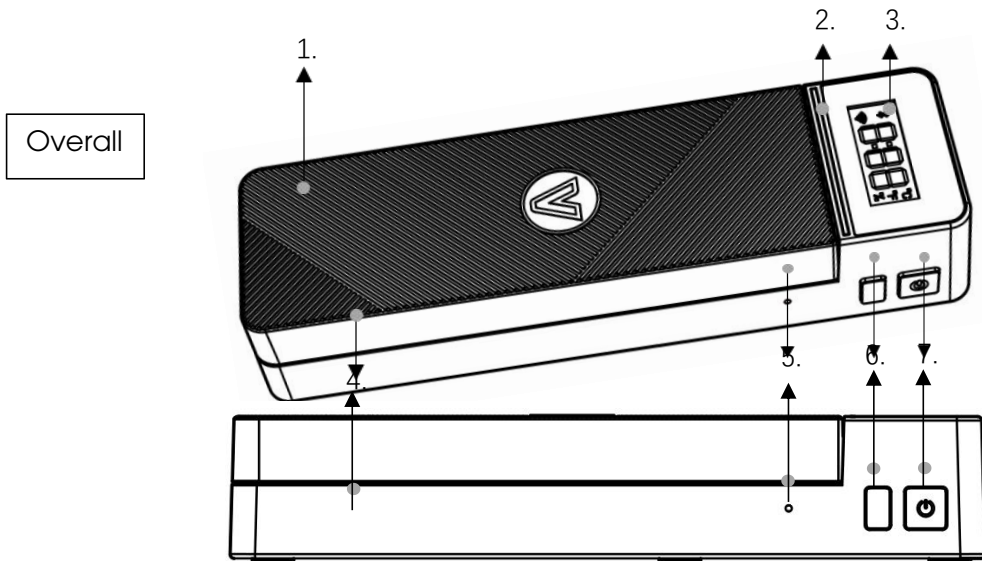
Technical Specs

Probe	
Temperature Sensors	3 in total (2 in the steel construction, 1 in the ceramic handle)
Temperature Range	Ambient Max: 300°C / 572°F Internal Max: 100°C / 212°F
Accuracy	Ambient: direct contact ± 3%, indirect contact ± 10% Internal: ±2%
Dimensions	Ceramic: 10.5*8 mm Steel: Φ5.5 mm Total Length: 119 mm
Weight	0.011kg (0.024 lb.)
Water Resistance	IP67
Bluetooth Range with Charger	30m / 98.4ft

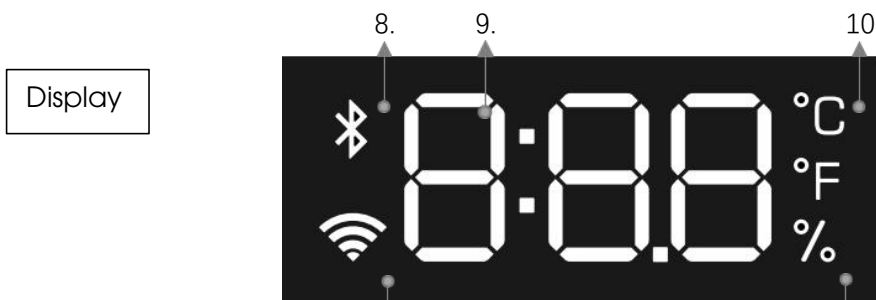
Charger	
Charging Port	Type C
Input Voltage	5-12V DC
Input Current	MAX 2A
Power Consumption	Standby: 0.0007W Operating: 0.33W
Dimensions	182*52*34.5 mm (7.2*2*1.4 in)
Weight	0.2kg (0.44 lb.)
Battery Capacity	3.7V 3000mAh
Wi-Fi Connection	Supports only 2.4GHz Wi-Fi
Sleep Time	Enters standby if no operation for 10 minutes
Temperature Setting Range	25-98°C (77-208°F)
Bluetooth Range with Smartphone	100m / 328ft

Product Structure and Features

Structure



1. Charger Lid 2. Indicator Light 3. Display 4. Charger Base
 5. Reset Button 6. Set Button 7. Power Button

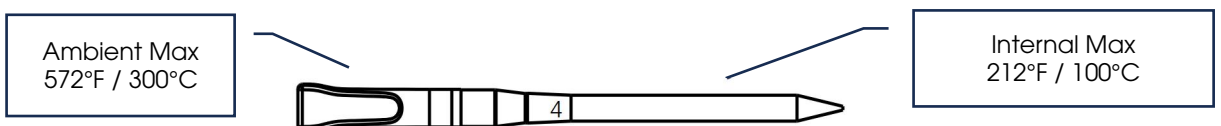


8. Bluetooth Indicator 9. Digital Display 10. Temperature Unit
 11. Wi-Fi Indicator 12. Battery Percentage








13. Ceramic Handle (Ambient Sensor) 14. Safety Notch (insert inside the food)
 15. Stainless Steel Construction 16. Internal Sensor (insert into the food's center)

Note:











Features

1. Power Button :

- In standby mode, press the Power button () to enter the operational mode. The display will show the real-time temperature detected by the probe, along with Wi-Fi and Bluetooth status.
- In the operational mode, pressing the Power button () starts the machine. The display alternates between showing the probe's temperature and the timer.
- In the operational mode, long-press the Power button () for three seconds to return to standby mode. If there's no activity for 10 minutes, the device will automatically enter standby mode.
- To set up Wi-Fi in the operational mode, simultaneously long-press the Power button and the Set button ( + ) for three seconds. Refer to the "App Instructions" for detailed instructions.

2. Set Button

- In the operational mode, press the Set button () once to adjust the temperature. Then, press the Power button () to increase and the Set button () to decrease the temperature value.
- In the operational mode, press the Set button ( + ) twice to check the battery level of the probe. The display will show "PXX %."
- In the operational mode, press the Set button ( +  + ) three times to check the battery level of the charger. The display will show "XXX%." Note that the charger's battery level cannot be viewed during charging.
- If no other action is taken within 5 seconds during these settings, the device will revert to the operational mode, displaying the probe temperature.

3. Reset Button:

- In the operational mode, press and hold the Reset button for 5 seconds to restore the machine to its factory settings.

4. Charger Indicator Light

- Red Breathing Light: The probe is operational, but temperature hasn't reached the target.
- Green Breathing Light: The probe is operational, and temperature has reached the target.
- Orange Breathing Light: The charger is charging, not fully charged yet.
- Steady Green Light: The charger is fully charged.

5. Bluetooth Indicator

- When your phone is paired with the charger through Bluetooth, the Bluetooth indicator will turn on.

6. Wi-Fi Indicator

- Wi-Fi Light Off: Not connected to the internet.
- Wi-Fi Light Fast Flashing: Pairing with the network.
- Wi-Fi Light Slow Flashing: Connected to the router but not the cloud server.
- Wi-Fi Light Steady On: Network pairing successful.









7. Temperature Unit:

- Default setting for the US market: Fahrenheit (°F), and for other markets: Celsius (°C).

8. Battery Percentage "%":

- "PXX %" on the display refers to the Bluetooth probe's battery level.
- "XXX %" on the display indicates the battery level of the charger.












9. Digital Display:

- In operational mode, display the current temperature of the probe.
- In operational mode, when setting the target temperature by pressing Set → Power ( → ) , display the target temperature.
- In operational mode, press Set twice ( + ) to show the battery level of the probe.
- In operational mode, press Set three times ( +  + ) to display the battery level of the charger.
- In operational mode, press Power () to alternate between displaying the probe temperature and the working time.
- If the time is 09:59 or less, display "hours:minutes."




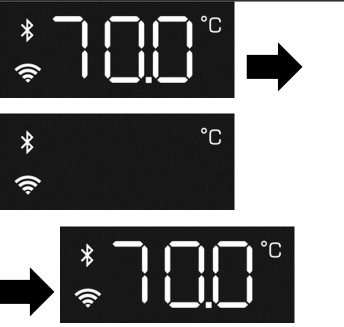



- If the time is more than 09:59, display only the hours.





Display Diagram

1. Operational mode












	<p>In standby mode, press the Power button () to enter operational mode, displaying the temperature of the probe. At this time, both the Bluetooth indicator () and the Wi-Fi indicator () are not illuminated, indicating that the device is not yet connected to Bluetooth and Wi-Fi.</p>
	<p>The Bluetooth indicator () is illuminated, indicating that the device is connected to Bluetooth.</p>
	<p>The Wi-Fi indicator () is illuminated, indicating that the device is connected to Wi-Fi.</p>
	<p>Both the Bluetooth indicator () and the Wi-Fi indicator () are illuminated simultaneously, indicating that the device is connected to both Bluetooth and Wi-Fi.</p>

2. Adjust the temperature




	<p>In standby mode, press the Power button () to enter operational mode. Press the Set button once () to display the target temperature.</p>
	<p>Press Power () again to adjust the target temperature when the value flashes.</p>
	<p>While the value is flashing, press the Power button () to increase the target temperature by 0.1 °C / 0.1 °F.</p>

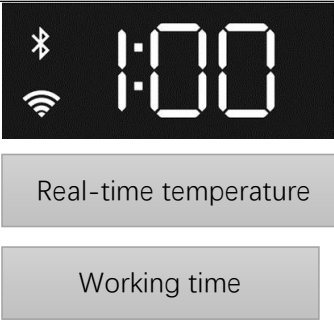


	<p>While the value is flashing, press the Set button () to decrease the target temperature by 0.1°C/0.1°F.</p>
 	<p>During the value flashing, if no action is taken for 5 seconds, the device will exit the temperature adjustment mode, returning to the operational mode and displaying the probe temperature.</p>

3. Check battery level



	<p>In standby mode, press the Power button () to enter operational mode. Press the Set button twice ( + ) to display the battery level of the probe. After 5 seconds, it will return to the operational mode.</p>
	<p>When it displays "P99%," the probe is fully charged.</p>
	<p>In standby mode, press the Power button () to enter the operational mode. If the device is not charging, press the Set button three times ( +  + ) to display the battery level of the charger. After 5 seconds, it will return to the operational mode.</p>
	<p>When it displays 100%, the charger is fully charged.</p>

4. During operation:

	<p>In standby mode, press the Power button () to enter the operational mode. Press the Power button () again to start the probe's operation.</p>
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	<p>During operation, the display alternates between showing the real-time temperature and the working time of the probe.</p>
	<p>If the time is 09:59 or less, display "hours:minutes."</p>
	<p>If the time is more than 09:59, display only the hours.</p>

5. Device Pairing with Bluetooth Probe

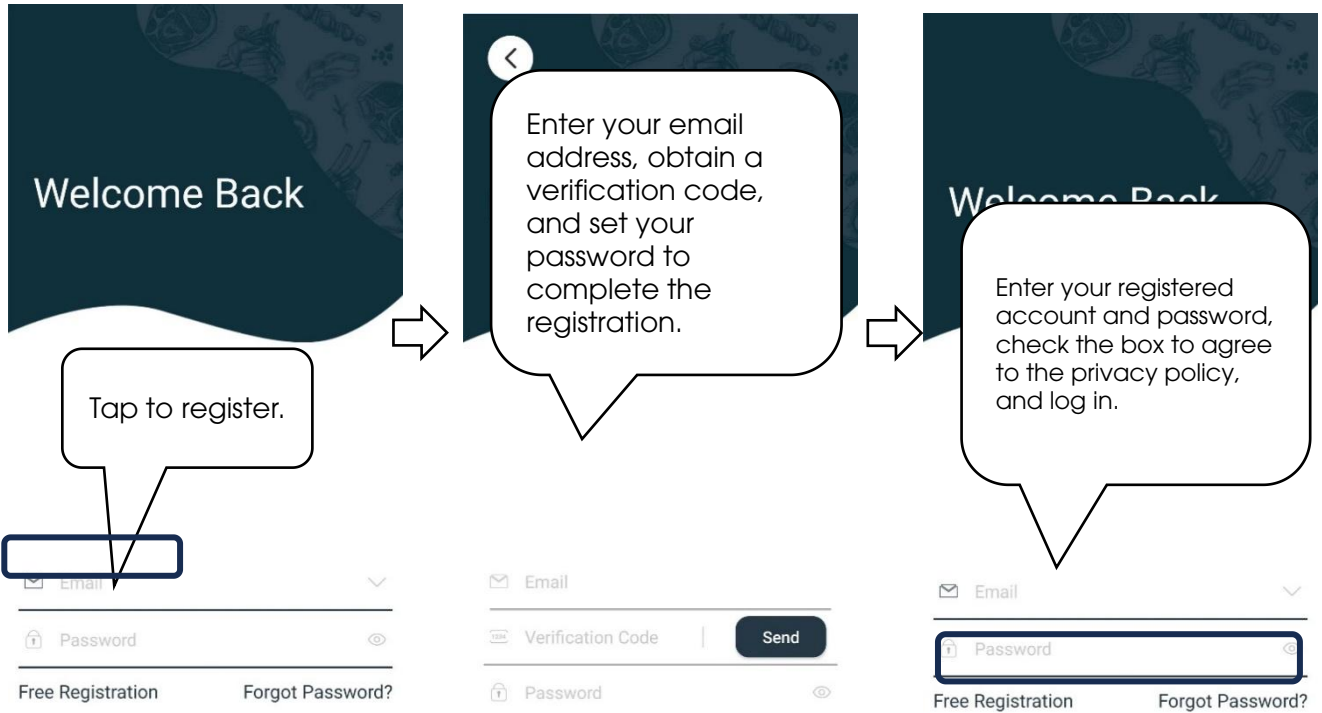
	<p>In standby mode, long-press the Set button  to enter this mode for pairing the charger with the probe. Refer to "Pairing the Probe with Charger" for further details.</p>
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Note: For fault codes and their explanations, refer to "Troubleshooting."

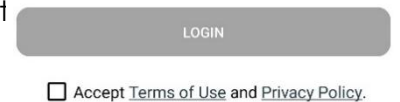
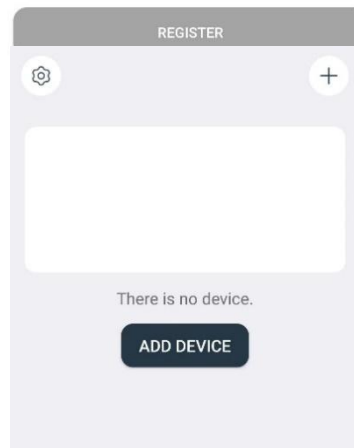
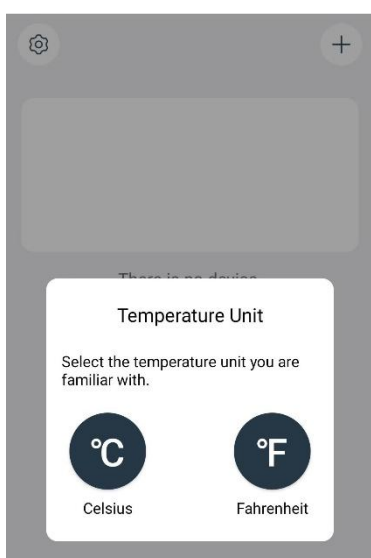
App Instructions

Download the App and Register

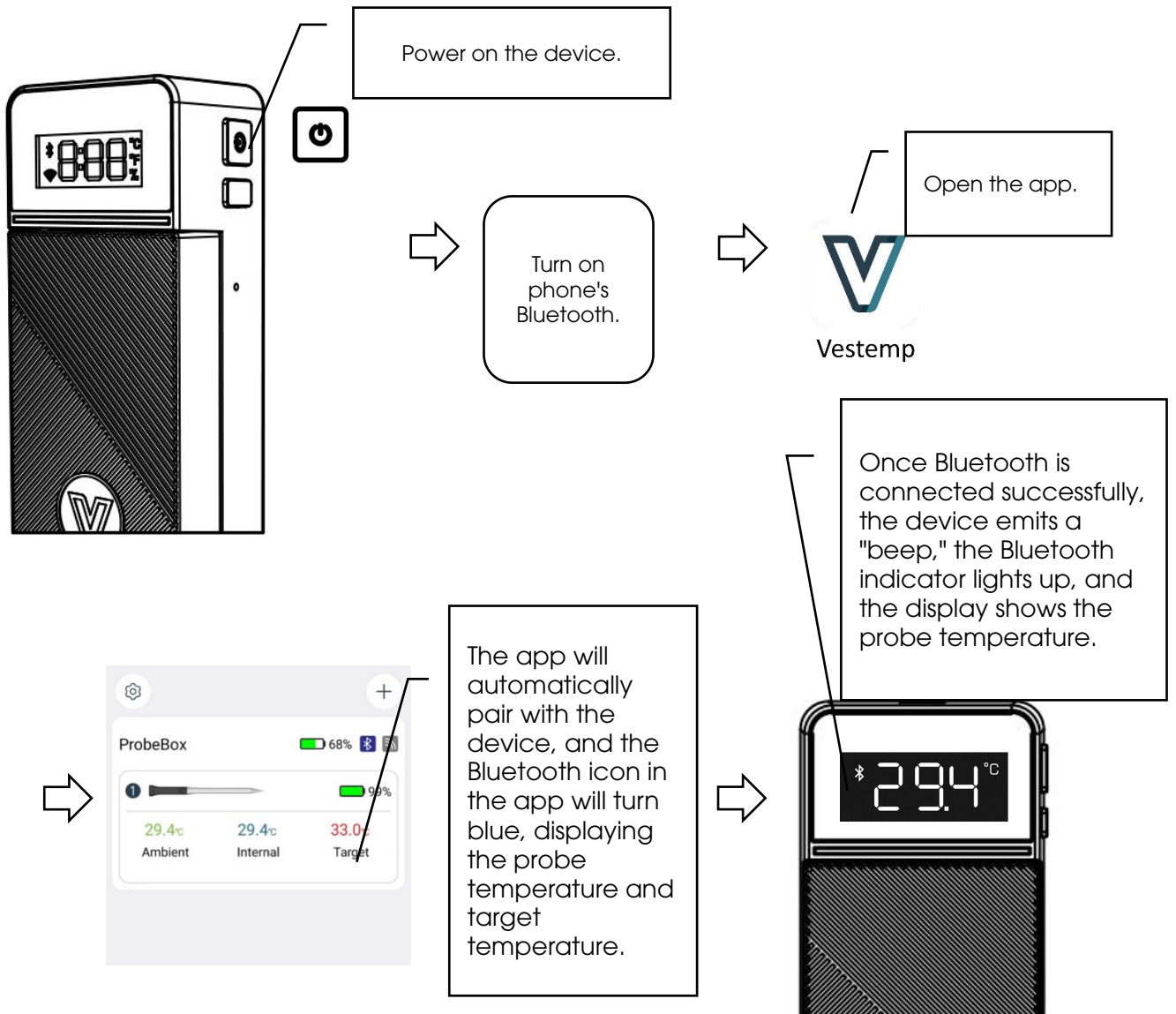
Get "Vestemp" app from the App Store on iPhone or from Google Play or Tencent App Store on Android.



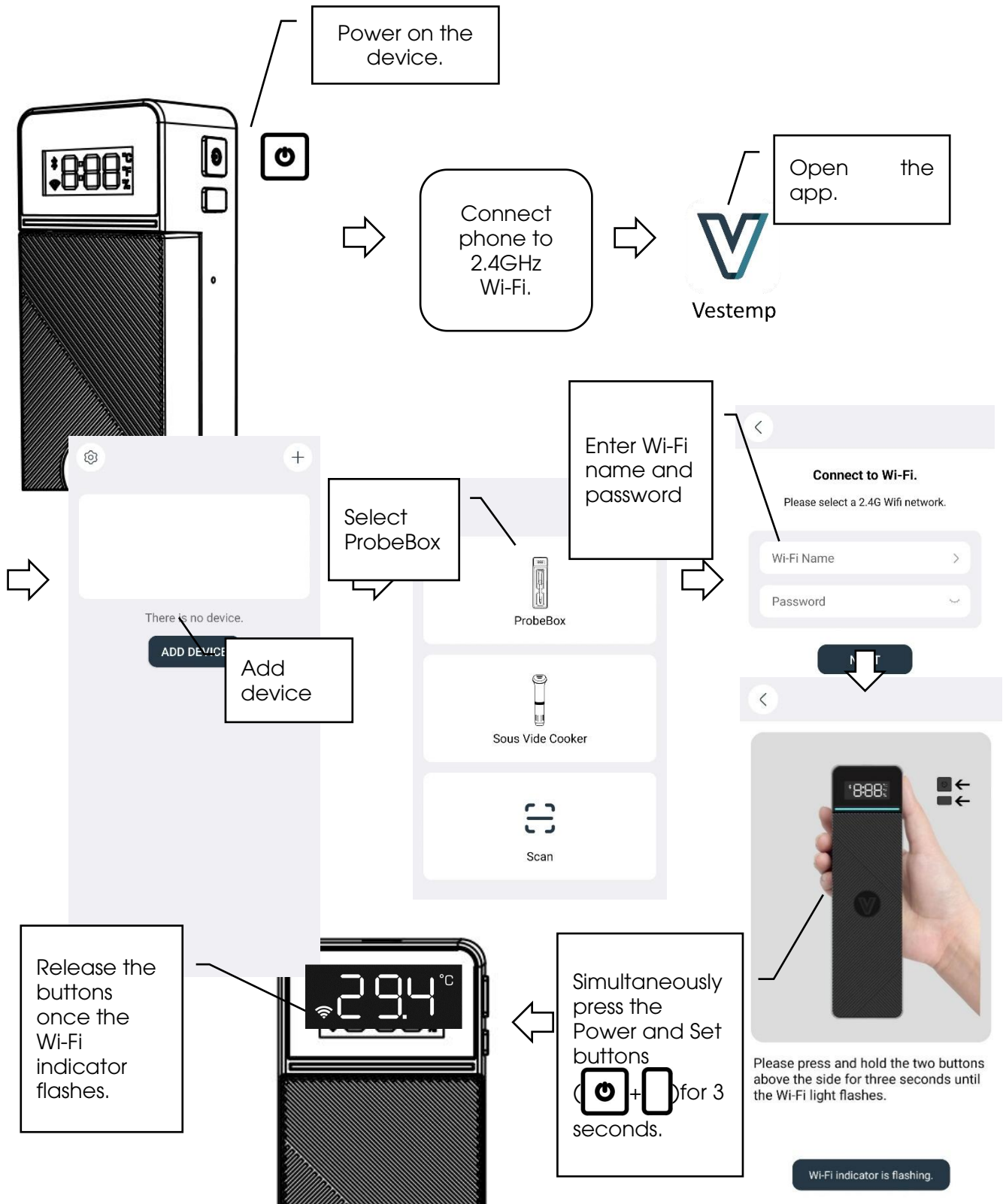
After logging in, select the temperature unit, and enter the main int

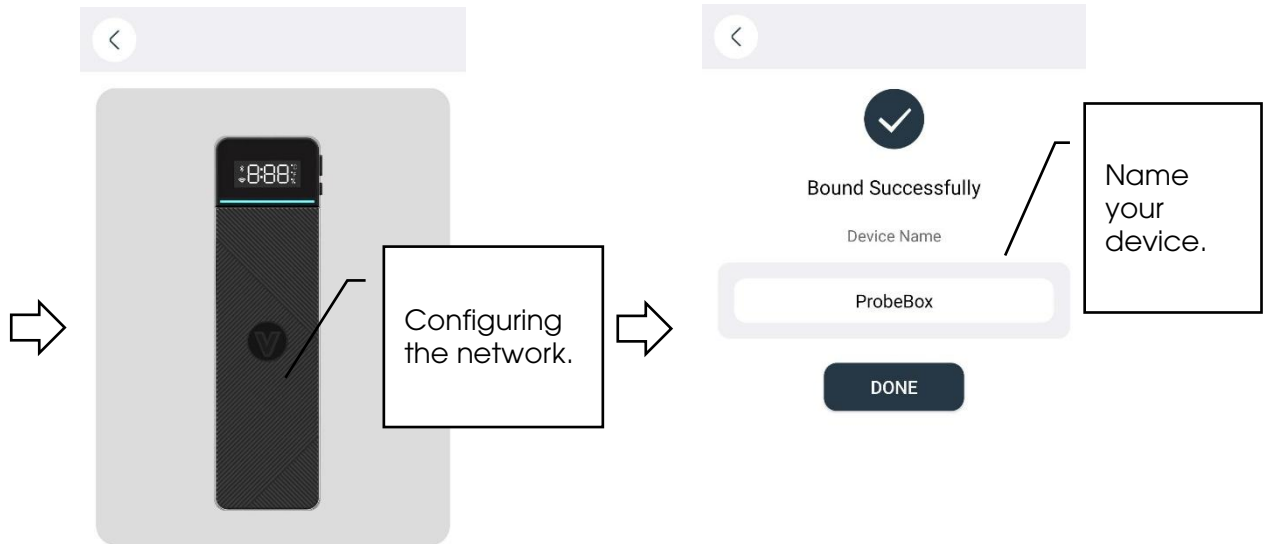


Bluetooth Connection

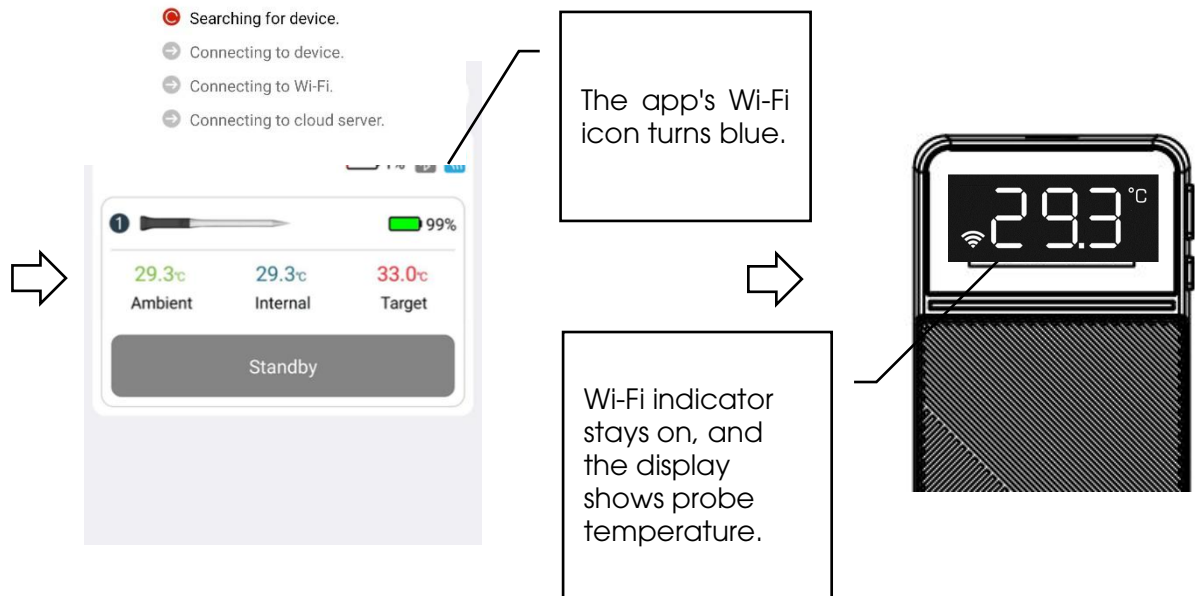


Wi-Fi Connection





Please press and hold the two buttons above the side for three seconds until the Wi-Fi light flashes.

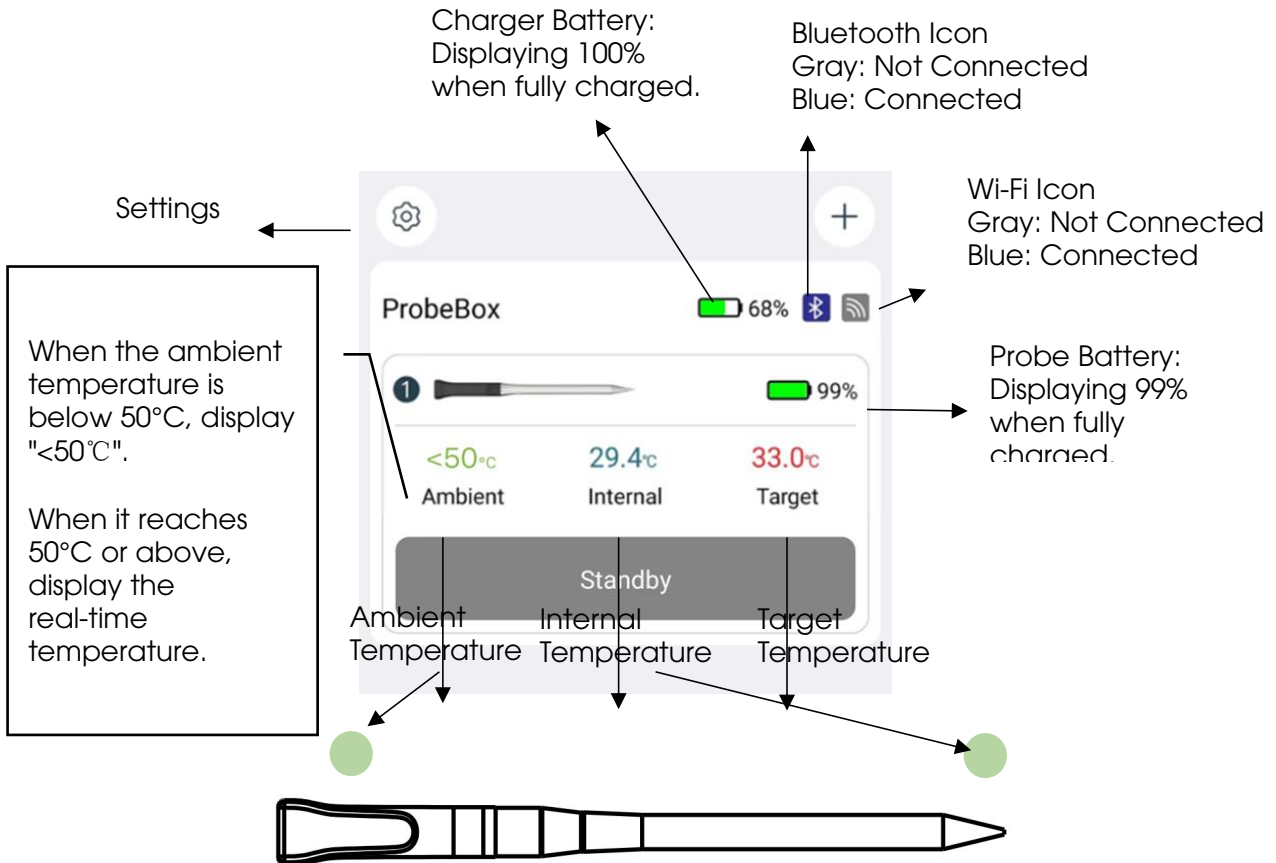


Note:

1. Network configuration has a maximum duration of 600 seconds. If not completed within this time, the Wi-Fi indicator (📶) will go out, signaling exit from the configuration mode.
2. Wi-Fi indicator (📶) meanings:
 - Off: Charger not connected to the network.
 - Fast flashing: Charger configuring the network.

- Slow flashing: Charger connected to the router but not yet to the cloud server.
 - Steady on: Charger connected to the cloud server; network configuration complete.
3. After network configuration, if the network disappears (e.g., router turned off), the Wi-Fi indicator (📶) will automatically turn off.
 4. After Wi-Fi and Bluetooth configuration, the charger saves network info. On reconnection, the device automatically connects to the network, even if account unbinding occurs in the app client.

App Interface



Note: If all three temperature readings show no values, and both the Bluetooth (📶) and Wi-Fi icons (📶) are gray, the machine is not connected to the app.

Operating Instructions

Preparation Before First Use


1. Charging and Activation

- Charge the charger (including the probe) to activate the device.
- During charging, the indicator light will be an orange breathing light (may take a few minutes for the breathing light to appear after extended inactivity). A steady green light indicates charging completion.

2. Connecting to Wi-Fi and Bluetooth


- Install the "Vestemp" app on your mobile phone and log in.
- Follow the "App Instructions" to connect to Wi-Fi and pair with Bluetooth.

Preparation Before Extended Inactivity










1. Place the Bluetooth probe in the charger, connect to power, and charge for at least 30 minutes.
2. Press the Power button () to turn on the device. You can use the probe while the charger is still charging.
3. During charging, the indicator light will be an orange breathing light (may take a few minutes for the breathing light to appear after extended inactivity). A steady green light indicates charging completion.

How To Use





1. Power On

- Press the Power button () to trigger a "beep" sound, indicating the machine has entered operational mode. The display will show the temperature of the probe, as well as the status of Wi-Fi and Bluetooth connections.

2. Check Battery Level

- Probe battery level: In operational mode, press Set twice ( + ) to check the probe's battery.
- Charger battery level: In operational mode, press Set three times ( +  + ) to check the charger battery. Note that you cannot check the battery level during charging, so ensure sufficient battery to meet usage needs.
- To return to the operational mode, press the Set button four times ( +  +  + ) or wait for 5 seconds. (Battery level checking can also be done in the mobile app.)


3. Set Target Temperature

- In operating mode, press Set and Power buttons consecutively ( → ) to enter the target temperature setting. Then, use the Power () and Set () buttons to adjust the target temperature up or down. The device features a memory function, preserving the set value for the next use.
(Temperature adjustment can also be done in the mobile app.)

4. Insert Probe into Food

- Ensure the probe's tip is at the food's center, with the safety notch inside the food.

5. Start

- Press Power () or use the mobile app to initiate. The charger display alternates between showing real-time probe temperature and working time. The app indicates the estimated time to reach the target temperature.

6. Charger Status During Operation

- While the food is heating, the charger indicator is a red breathing light.



7. Charger Status After Completion


- Once the target temperature is reached, it changes to a green breathing light, accompanied by three beeps, repeating every minute.


8. Steps After Completion

- Press Power () or use the app to stop, remove, and clean the probe.

9. Device Storage

- Place the probe back into the charger for charging, and check battery level via the app or the charger. (Check via charger: press Set twice ( + ), the digital display will show PXX%

().

- After probe charging is complete, power off by pressing the Power button () for 3 seconds. If no action is taken within 10 minutes, the device will automatically enter standby mode.

Cleaning

- Remove the Bluetooth probe from food after use.
- Clear any food residue from the probe, then rinse it with water.
- Wipe the probe dry and store it back in the charger.

Pairing the Probe with Charger

(Only perform this when the probe is accidentally unpaired or when binding a new probe.)

In standby mode, press and hold the Set button (). The Bluetooth indicator () will flash,

showing P (P), indicating probe pairing. Place the Bluetooth probe into the charger (ensure it's in probe pairing mode). The Bluetooth indicator (✳) stays on for 2 seconds and then turn off, and the charger beeps for 2 seconds. Remove the probe, and the display will show the current probe temperature, indicating successful pairing.

Troubleshooting

Error Code:

Code	Issue	Solution
HF	No temperature change detected in 5 minutes	<ol style="list-style-type: none"> 1. Check if the food is heating. 2. Ensure the heating device is operational.
OH	Target temperature exceeds detection limit.	Remove the probe from food; cool it with water.
P_E	Probe damaged.	Replace with a new probe; seek professional repair.
P IC	1. Corresponding probe either is charging.	1. Check if the probe with the number is charging.
P2C	2. There is an obstacle between the probe and the charger.	2. Ensure no obstacles, especially metal objects, obstruct between the probe and charger.
P3C	3. The probe exceeds transmission distance.	3. Position the charger closer to the probe.
P4C	4. The probe is damaged.	3. Seek professional repair.

FAQ:

1. Can the machine be used while charging?

- Yes, the machine supports operation while charging. However, this will reduce charging speed and extend charging time.

2. How to operate after prolonged inactivity?

- Although the machine supports use while charging, extended storage may deplete its battery to critically low levels. In such cases, the machine cannot charge while operating. Please charge the machine for at least 30 minutes before startup after prolonged inactivity.

3. Meaning of indicator lights on the charging dock:

- **Pulsing red light:** Bluetooth probe is active; temperature has not reached target.

- **Pulsing green light:** Bluetooth probe is active; target temperature achieved.
- **Pulsing orange light:** Charging dock is charging; battery not yet full.
- **Solid green light:** Charging dock is fully charged.

Note: If the issues persist or if there are unmentioned problems, consult professionals.



Declaration of Conformity

To whom it may concern,

From: Advanced Cuisine Technology PTE. LTD.

60 Paya Lebar Road, #11-19 Paya Lebar Square, Singapore 409051

Declare under our responsibility that the electrical product(s):

Brand	Name:	Vesta Precision
Equipment/Product		Food Probe
Name: Type/Model:		BP20
Description:		Wireless Thermo-probe Vestemp BP20

Product Voltage: 3.3VDC

Conforms to Directive(s): 2014/30/EU EMC Directive 2014/35/EU

Low Voltage Directive

Conforms to Standard(s):

EN IEC 55014-1:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021 EN
IEC 61000-3-11: 2019
EN IEC 55014-2:2021
EN 60335-1:2012 + A11: 2014+ A13: 2017+A1:2019+A14:2019+A2:2019+
A15:2021+A16:2023
EN 62368-1:2024
EN 62233: 2008

The Technical file is available from: Advanced Cuisine Technology PTE. LTD.

The manufacturer hereby declares under his sole responsibility that the product Identified above Directive(s) and Standard(s).

Herewith complies with ROHS according to European Directive 2011/65/EU and 2015/863/EU. We hereby assume full responsibility and liability to ensure that all our mass produced merchandise fulfill the above mentioned ROHS requirements.

Issued By: Ruben Duran



Job Position: Vice President

Advanced Cuisine Technology PTE. LTD.