

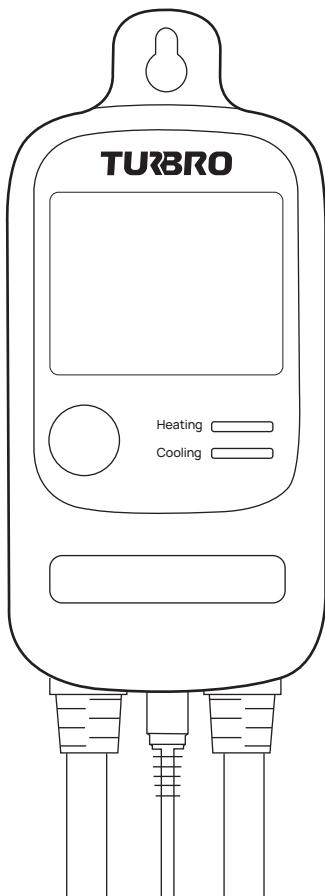
# USER MANUAL

**SMART  
TEMPERATURE  
CONTROLLER**

MODEL: TC01 Smart

KEEP THIS USER MANUAL FOR FUTURE  
REFERENCE.

**TURBRO**



## CONTENTS

SAFETY INFORMATION	01
KEY FEATURES	02
CONTROL PANEL AND PROGRAMMING	03
HOW TO USE	05
WIFI OPERATION	11
FCC STATEMENT	15
WARRANTY INFORMATION	16

## SAFETY INFORMATION

DO NOT use this appliance until you have read the safety warnings and operating instructions. Risk of fire, malfunction, property damage, electric shock, serious injury, or even death may result if warnings and instructions are not adhered to.

The manufacturer declines all responsibility for personal injury or damage to animals or objects caused by inappropriate use of the appliance according to the warnings for installation, use, and maintenance described in this instruction manual.

This appliance is not to be used or have maintenance performed by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge unless they have been given strict supervision or instruction concerning the use of the appliance by a person responsible for their safety.

- It is recommended that this device be used indoors in a dry location only.
- The device shall be used within its rated power as specified on the product label.
- Ensure your power source meets the electrical requirements of this product.
- Make sure the device is fully plugged in and kept out of reach of children for safety concerns.
- This product must not be used in potentially hazardous locations such as flammable, explosive, chemical-laden, or wet atmospheres.
- Do not use the device where wireless devices are not allowed.
- Do not plug in this device one after the other.
- Do not cover the device when operating.
- No voltage is present only if the plug of the Smart Socket Thermostat is disconnected.
- The socket outlet that supplies power to the equipment (Smart Socket Thermostat) should be installed near the equipment and easily accessible.
- Do not operate this product while its cord is damaged, or if it malfunctions, has been dropped, or is damaged in any manner.

## PRODUCT SPECIFICATIONS

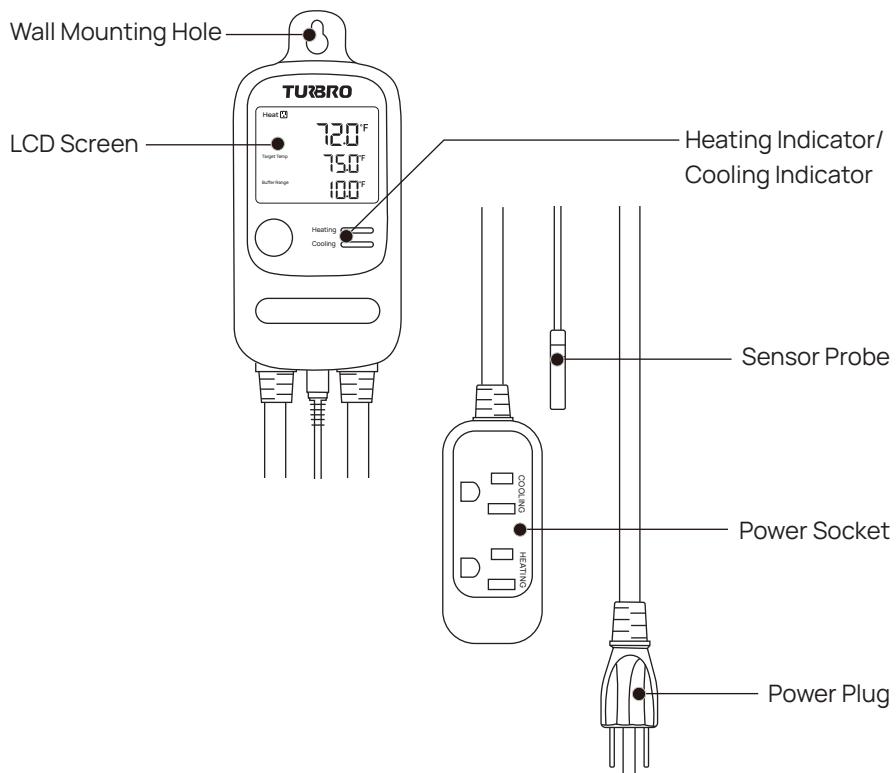
Input: 100-240 V, 50/60 Hz

Output: Max 15 A, 1800 W at 120 V, 3000 W at 240 V

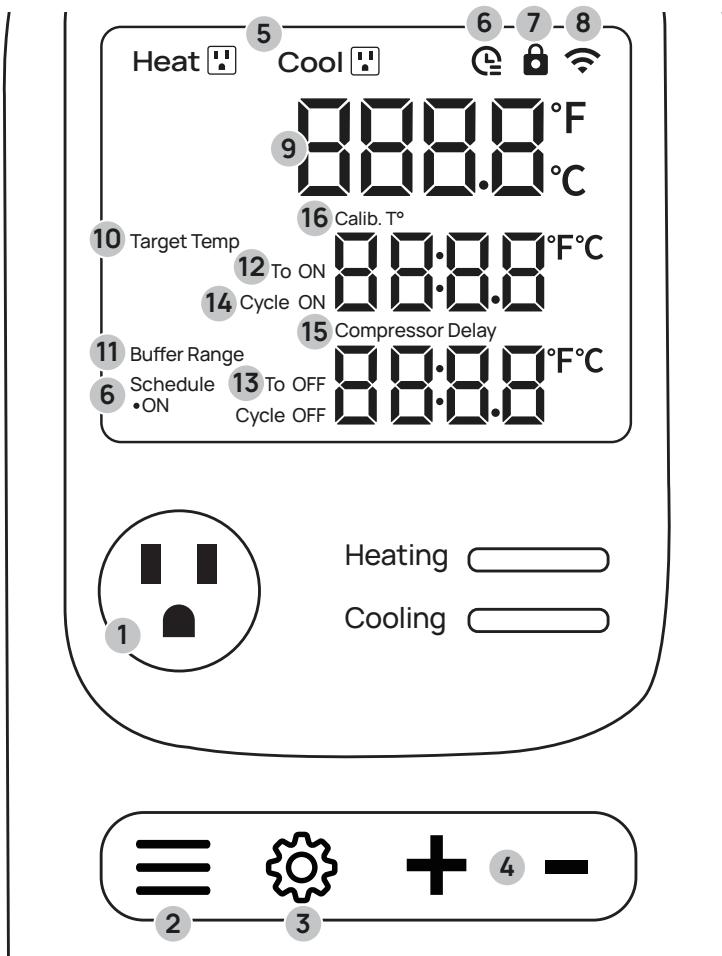
Power Cord Length: 4.76 ft/1.45 m

Probe Cord Length: 6.56 ft/2.00 m

## KEY FEATURES



## CONTROL PANEL AND PROGRAMMING



### 1. Socket Button

Cycles between the Heating Socket and the Cooling Socket.

### 2. Mode Button

Cycles through the controller's modes: Temperature Control, To ON, To OFF, Cycle (ON and OFF), and Schedule.

### **3. Setting Button**

Press to choose a particular parameter to set.

### **4. Increase / Decrease Button**

Adjusts the value of your current mode. The “+” button increases and the “-” button decreases the setting.

### **5. Power Socket**

Displays the chosen available power socket.

### **6. Schedule Icon / Schedule Mode**

This mode is used to control a device to ON according to the schedule.

### **7. Child Lock Icon**

### **8. WiFi Icon**

### **9. Probe Temperature**

Displays the current temperature that the probe is detecting.

### **10. Target Temperature**

Sets a trigger-off value (14.0~212 °F / -10.0~100 °C) for your Temperature Mode triggers.

### **11. Buffer Range**

Sets a different trigger-on point (0.5~30°F / 0.5~15°C) for your Temperature Mode triggers. This creates an On and Off band to prevent the connected device from triggering too quickly from small temperature fluctuations.

### **12. To ON**

In this mode, the chosen socket will power ON after a certain time (00:01-99:59).

### **13. To OFF**

In this mode, the chosen socket will power OFF after a certain time (00:01-99:59).

### **14. Cycle ON/OFF**

In this mode, the chosen socket will cycle ON and OFF at certain times (00:01-99:59).

## 15. Compressor Delay

Compressor delay is a safeguard to ensure the compressor does not turn on and off too quickly, which can damage it.

## 16. Calibrate Temperature

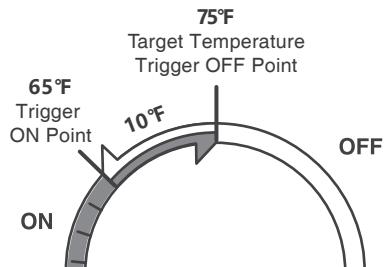
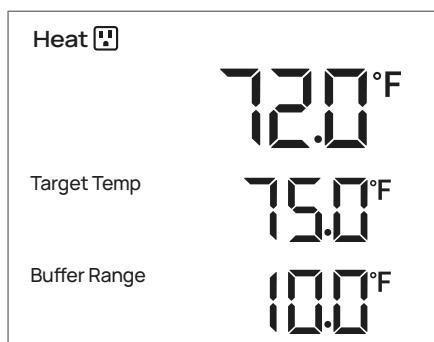
Calibrate the temperature when you find the probe temperature is not accurate.

# HOW TO USE

## Power Socket

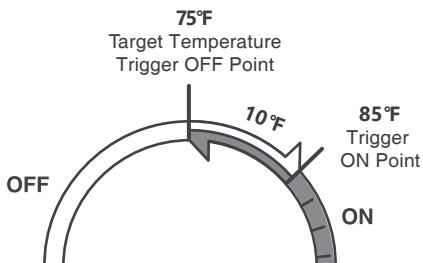
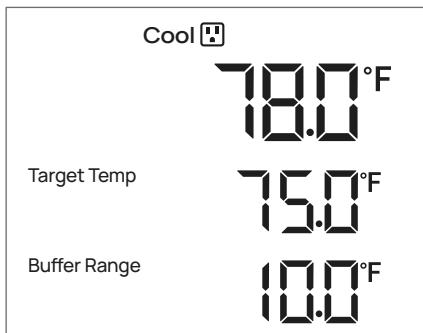
Press the Socket Button to choose the controller's available socket.

## Temperature Control-Heat Mode



1. The Heat Mode is used to control a heater to heat. When the probe temperature reaches the Target Temperature (e.g., 75°F), the Heating Socket will be powered off. When the probe temperature decreases outside the Buffer Range (e.g., 10°F, 75°F → 65°F), the Heating Socket will power on.
2. You can press the Setting button to set Target Temperatures and Buffer Range. Each time you press the Setting button, the flashing parameter can be adjusted with the "+" and "-" buttons. The device will automatically confirm the setting after 5 seconds of no operation and start working in Heat Mode.

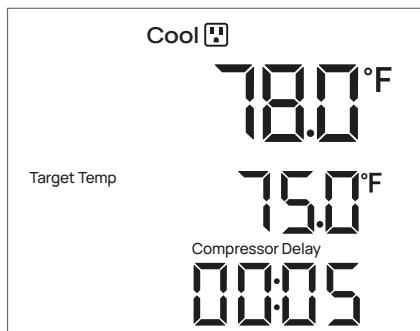
## Temperature Control-Cool Mode



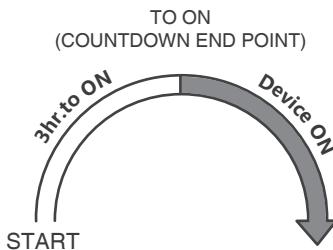
1. The Cool Mode is used to control a cooler to cool. When the probe temperature reaches the Target Temperature (e.g., 75°F), the Cooling Socket will be powered off. When the probe temperature increases outside the Buffer Range (e.g., 10°F, 75°F → 85°F), the Cooling Socket will be powered on.
2. You can press the Setting button to set Target Temperatures and Buffer Range. Each time you press the Setting button, the flashing parameter can be adjusted with the "+" and "-" buttons, the device will automatically confirm the setting after 5 seconds of no operation and start working in Cool Mode.

## Compressor Delay

You can press the Setting button to set the Compressor Delay. The flashing time parameter can be adjusted with the "+" and "-" buttons from 0-10 min.

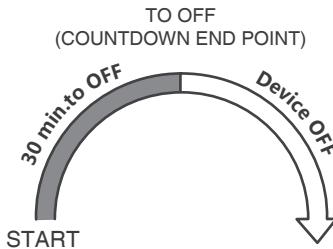
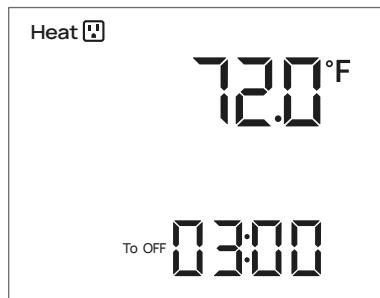


## Timer Control-To ON Mode



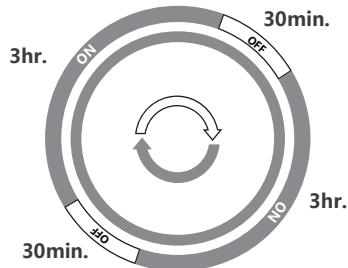
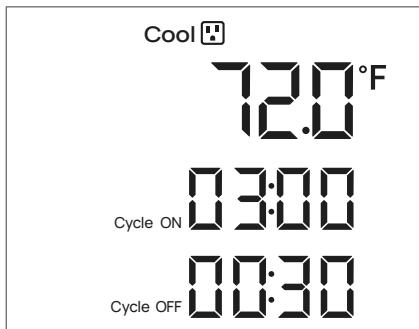
1. In this mode, the chosen socket will power ON after a certain time (3 hours as shown in the picture above).
2. You can press the Setting button to set Countdown Time. Each time you press the Setting button, the flashing parameter can be adjusted with the "+" and "-" buttons. The device will automatically confirm the setting after 5 seconds of no operation and start working in the To ON Mode, and start the countdown.

## Timer Control-To OFF Mode



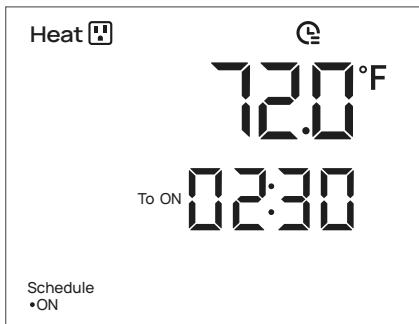
1. In this mode, the chosen socket will power OFF after a certain time (30 minutes as shown in the picture above).
2. You can press the SET button to set Countdown Time. Each time you press the Setting button, the flashing parameter can be adjusted with the "+" and "-" buttons. The device will automatically confirm the setting after 5 seconds of no operation and start working in the To OFF Mode, and start the countdown.

## Timer Control-Cycle Mode



1. In this mode, the chosen socket will Cycle ON and OFF continuously, turning ON for 3 hours and then OFF for 30 minutes, repeating this pattern indefinitely, as shown in the picture above.
2. You can press the SET button to set the Cycle ON and Cycle OFF. Each time you press the Setting button, the flashing parameter can be adjusted with the "+" and "-" buttons. The device will automatically confirm the setting after 5 seconds of no operation and start working in Cycle Mode, then start the countdown.

## Timer Control-Schedule Mode



1. This mode is used to control a device to ON / OFF according to the schedule.
2. You can only adjust the schedule in the app.

## Child Lock

Long press the **Mode Button** for 3 seconds to activate the Child Lock function, and long press the Mode Button for again for 3 seconds to exit the Child Lock.

## How to Calibrate Temperature

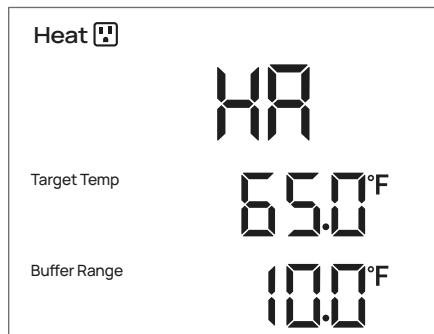


1. Long press the **Setting Button** for 5 seconds, and the Temperature Calibration page will be displayed.
2. Use the "+" and "-" buttons to calibrate, then press the Setting Button to save the change, or save the settings after 10 seconds of no operation.

## Temperature Unit Switch

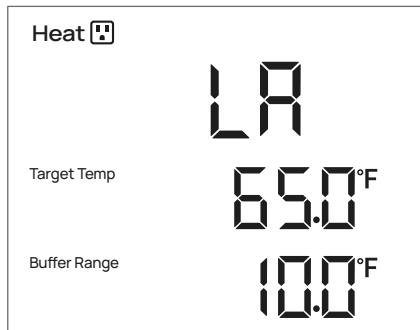
Press the "+" and "-" Buttons together to switch between Fahrenheit (°F) and Celsius (°C) display.

## High-Temperature Alarm



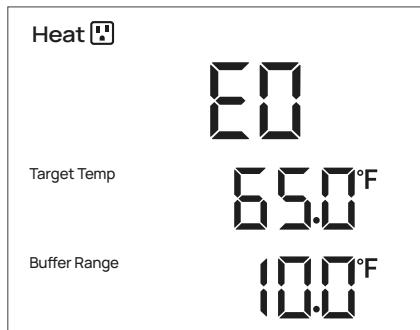
1. If you find the "HA" character flashing on the screen, as shown above, this means the probe temperature exceeds the alarm value you set.
2. You can only adjust the high-temperature value in the app.

## Low-Temperature Alarm



1. If you find the “LA” character flashing on the screen, as shown above, this means the probe temperature is below the alarm value you set.
2. You can only adjust the low-temperature value in the app.

## Sensor Malfunction and Replacement



If you find the “E0” character flashing on the screen, as shown below, this means the sensor is not working properly. Please do the following steps.

1. Check whether the sensor wire has been plugged properly and re-plug it.
2. Use your finger to hold the sensor to see whether the measured temperature will go above 86°F (30°C) quickly. If yes, then the sensor is working properly.
3. If the screen still flashes the “E0” character, then you need to replace the sensor.

## WIFI OPERATION

### Connect to AIR.ai App

Use the AIR.ai App to control your Smart Socket Thermostat from your iPhone or Android device even when you are away from home.

### System Requirements

- Supported wireless routers must have an available 2.4 GHz operating frequency.
- Standard: 802.11b/g/n bands
- Supported smartphone systems: Android 6.0 or later / iOS 11 or later

A. Scan the QR code below or search 'AIR.ai' on the App Store or Google Play and download it.



AIR.ai

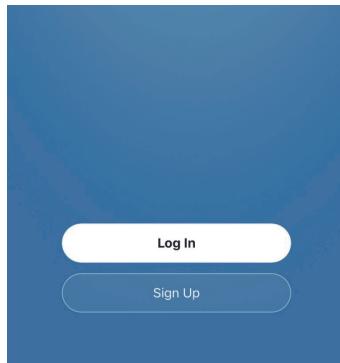


GET IT ON  
Google Play

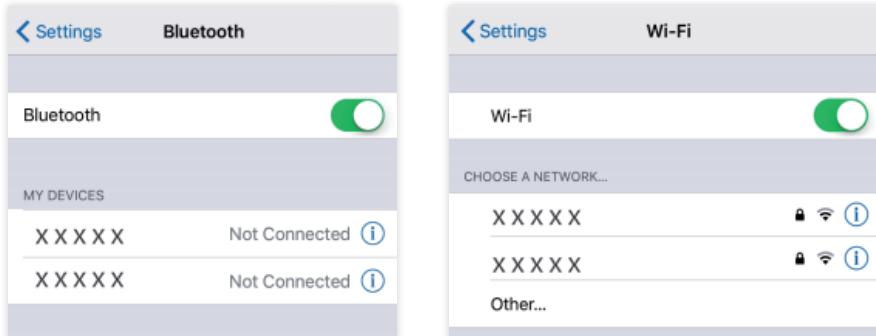


Download on the  
App Store

B. Launch the AIR.ai App and log in to your account (sign up for your first use).



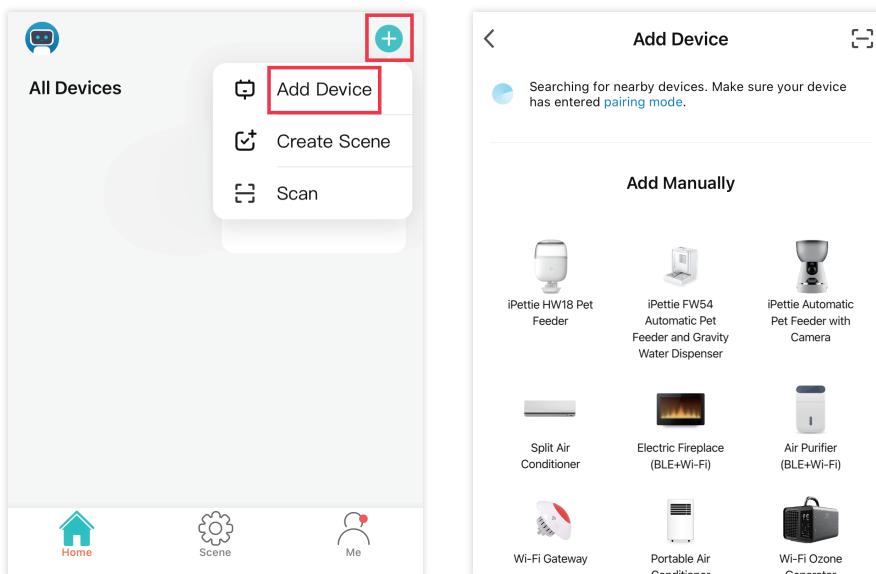
C. Turn on Bluetooth on your phone and connect your phone to your Wi-Fi.



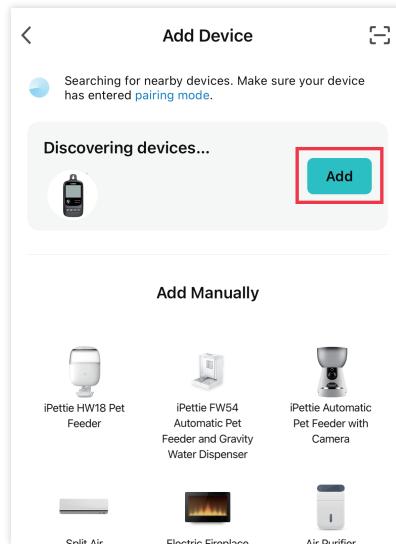
#### D. WiFi Pairing Mode

Press the Socket Button for 5 seconds to enter the Wi-Fi pairing mode. The WiFi icon will keep flashing.

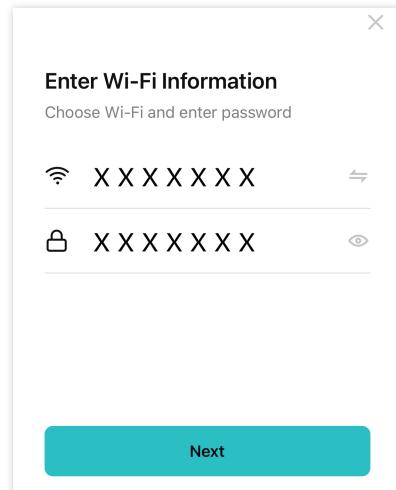
E. Back to the AIR.ai App. Press the “+” button in the top right corner, and click “Add Device”. The App will search for the heater automatically.



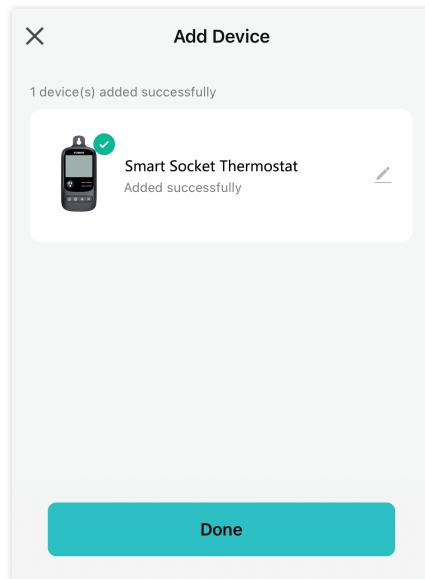
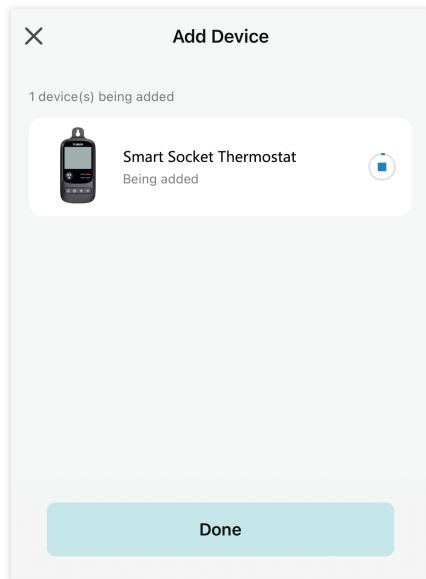
F. Press the “Add” button to add your device.



G. Choose your Wi-Fi (the one your phone is connected to) and enter the password. Press the “Next” button to continue.



H. The AIR.ai App starts connecting to your device. It may take some time, please wait patiently. Press the “Done” button, you will find your heater in the device list. You can rename your device and get started now.



## FCC STATEMENT

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instructions as documented in this manual. 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 cm between the radiator and your body. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

## WARRANTY INFORMATION

This 1-year limited warranty is extended to the original purchaser of this product and warrants against any defect in materials and workmanship under normal use and conditions, for a period of one year from the date of the original purchase, subject to the conditions and limitations outlined below.

This warranty is non-transferable to any subsequent owner of the product regardless of whether the product is transferred during the specified term of the warranty.

THIS LIMITED WARRANTY IS GIVEN TO THE PURCHASER IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

### What is covered?

- TURBRO's warranty extends only to products purchased from authorized sellers that are subject to TURBRO's quality controls and have agreed to follow its quality controls.
- This warranty is limited to the repair or replacement of part(s) proved to be defective in material or workmanship after said defect is confirmed by the manufacturer's inspection.
- The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).

UPON THE EXPIRATION OF THIS WARRANTY, ALL SUCH LIABILITY WILL TERMINATE. NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED ANYMORE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

### **What is not covered?**

- Damage or losses caused by any alterations or unauthorized repair made to the product by the owner.
- Damage or losses caused by accident, neglectful operation, misuse, abuse, or use contrary to the user manual and safety guidelines.
- Damage or losses occurring during commercial use, rental use, or any use for which the product is not intended.
- Damage or losses caused by improper or inadequate maintenance.
- Failure to perform general maintenance (including cleaning).
- Use of non-standard parts or accessories.
- Natural depreciation and normal wear and tear.

TURBRO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

### **How to request warranty services?**

To obtain the benefit of this warranty please leave a message online ([www.turbro.com/contact](http://www.turbro.com/contact)), or send an email to [support@turbro.com](mailto:support@turbro.com).

To express our gratitude to you for choosing us, we are giving you a 1-year warranty extension to the original 1-year manufacturer's limited warranty, extending the coverage period to two years in total.

- Complete the registration of your new product at <https://www.turbro.com/warranty> within 90 days from the date of package delivery (inclusive of the 90th day).
- Any registration beyond this stipulated period will be deemed invalid.

- The ultimate interpretation of the terms and conditions related to the extended warranty service rests solely with TURBRO.

If you discover that your product is defective within the specified warranty period, please contact our Customer Support via [support@turbro.com](mailto:support@turbro.com).

- Order ID and invoice, or bill of sale should be provided. Such payment records must be kept to verify the purchase date and establish a warranty period.
- Model and issue description should be provided in detail, preferably with pictures and videos.
- DO NOT dispose of your product before contacting us.
- DO NOT return the product unless instructed by our customer service.
- The original carton should be kept in case of warranty return of the unit.

### **What will TURBRO do?**

- Replace certain parts.
- Replace the item.
- Refund the item under certain circumstances.

In no event shall liability exceed the purchase price paid by the original purchaser of the product.

Any instructions or warranty included in this manual may be subject to change without notice. For the most up-to-date instructions and warranty information, please contact us via [support@turbro.com](mailto:support@turbro.com).

# TURBRO



✉ support@turbro.com

🌐 [www.turbro.com](http://www.turbro.com)

V20241203