

PCT503-W WiFi Multi-stage Thermostat

App Quick Start Guide

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1 Welcome

The smart thermostat makes it easier to control your household temperature. You can schedule your thermostat working hours so it will work based on your plan.

This guide will provide you with an overview of the SmartLife app and will help you get through it. You will be able to remotely control the temperature anytime through your mobile phone.

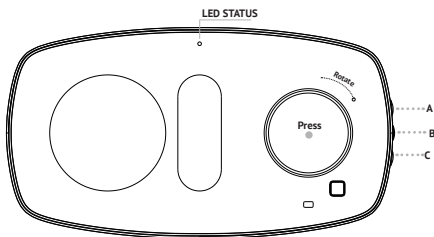
2 Get started

To get started, you will need:

- Connect your mobile phone to your home Wi-Fi network.
- A smart phone

Then follow the steps below:

1. Power on your devices
2. Ensure the LED indicator is flashing red rapidly, if not, please reset the device by the following methods.



Rotary button: Rotate the button for more options, press to select.

Option 1:

When the device LED indicator is steady on or slowly flashing , press and hold A button for 5 seconds until the LED indicator flashes quickly.

Option 2: menu page > Settings > Reset

- 1.Press the rotary button to enter menu page
- 2.Rotate to Setting
- 3.Press to enter Setting
- 4.Rotate to Reset
- 5.Press Reset to select the item

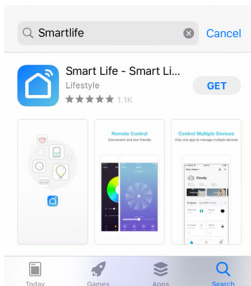
LED status:

LED status	What it means
Red LED flashing	Rapidly flashing(2 times/second):Smart config mode
	Slowly flashing(once every 3 second):AP mode
Red LED solid on	Device has connected with router successfully
No light	Device can not connect with router

3 APP installation

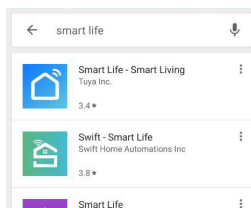
IOS devices:

Download "**SmartLife**" in Appstore



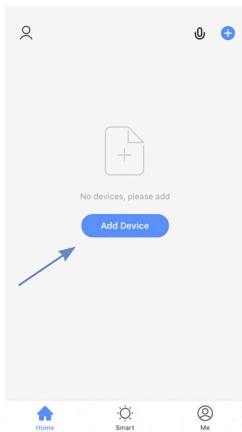
Android devices:

Download "**SmartLife**"app in Google play

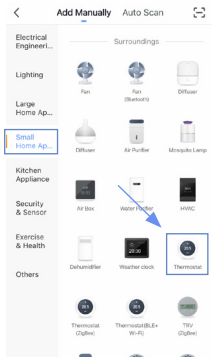


4 Add devices

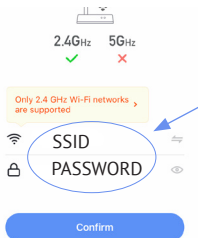
- 1.Open SmartLife APP
- 2.Login with existing account,if you are new user please create an account
- 3.If there has no device in your list, please tap **"Add device"** button to add, if there has device in the list, please click the "+" button at the top right corner to add devices



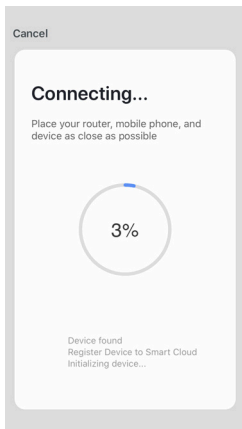
4. Please add the thermostat in “**Small home appliance**” list manually



5. Please enter your home Wi-Fi account and password (Only support 2.4GHz Wi-Fi), then tap “**Confirm**” button



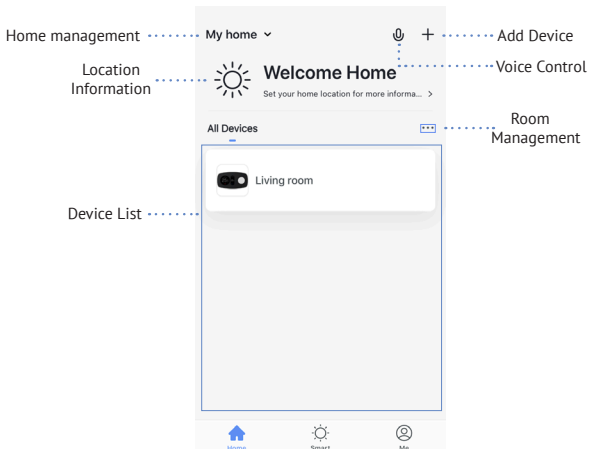
6.Place the router, mobile phone and thermostat as close as possible



7.Waiting for connection complete

8.After the device is added, you can rename the device and tap "**Finish**" to enter the adjustment interface.

5 App Overview:



Main menu:

Home:

1. Device list

You can check the existed device, tap the device to enter control page

2. Location information

You can check the local weather forecast

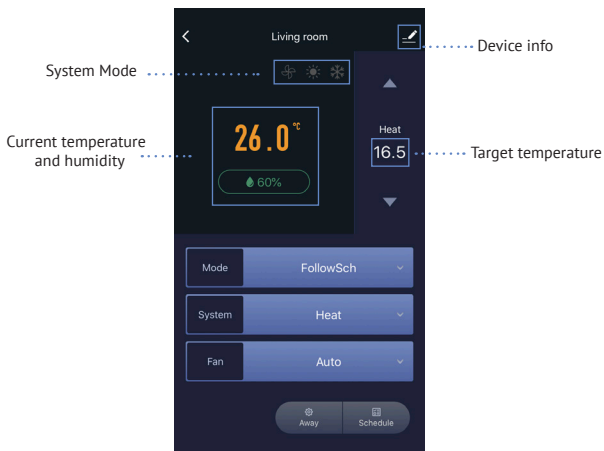
3. Home management

Add or delete items and manage home names, rooms, locations, and members

4. Voice control(Temporarily not available)

Smart: Create smart scene and add automatic function(Temporarily not available)

Me: Personal settings



Control board:

Select the target thermostat in device list then enter the control board.

- Device info

You can check and edit device info here, check and upgrade the firmware

- System mode

Display the work mode of current device (Fan on, Heat on, Cool on)

- Target temperature

Heat: Turn on the heat when the current temperature drops below the set temperature.

Cool: Turn on the air conditioner when the current temperature rises above the set temperature.

- Mode: Work mode

FollowSch: Follow the settings of schedule to adjust

PerHold: Hold current target temperature regardless of the schedule

Away: Settings for when you are not at home

TempHold: Keep the current target temperature still until the next scheduled activity execute (This selection only exist when you adjusting the target temperature under **FollowSch** mode.)

- System: Temperature control Mode

Off: Turn the system off

Cool: Enable Cooling only

Heat: Enable Heating only

Auto: Automatic control of heating and cooling based on ambient temperature

Emergency Heat: It only works when the device connect Heat pump and W wire

- Fan:Fan

Auto:Automatically adjust Fan while heating or cooling

Cycle:Runs at intervals to circulate air

On:Runs continuously

- Away: Settings for when you are not at home

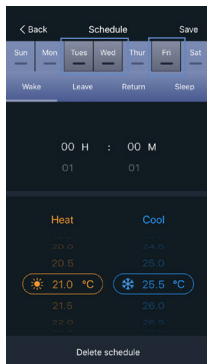
- Schedule: Set Schedule to change the temperature automatically

Schedule settings:

Tap the Schedule need to be modified, or tap the top right "**Edit**" button to set.

	Wake	Leave	Return	Sleep
Sun	06:00 ★ 21.0°C ※ 25.5°C	08:00 ★ 16.5°C ※ 29.5°C	18:00 ★ 21.0°C ※ 25.5°C	22:00 ★ 16.5°C ※ 27.5°C
Mon	06:00 ★ 21.0°C ※ 25.5°C	08:00 ★ 16.5°C ※ 29.5°C	18:00 ★ 21.0°C ※ 25.5°C	22:00 ★ 16.5°C ※ 27.5°C
Tues	06:00 ★ 21.0°C ※ 25.5°C	08:00 ★ 16.5°C ※ 29.5°C	18:00 ★ 21.0°C ※ 25.5°C	22:00 ★ 16.5°C ※ 27.5°C

Multiple operation:



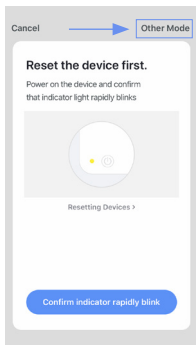
After setting the temperature range, tap “**Save**” button to save the schedules.

Delete Schedule: All schedules will be deleted after the button is pressed.

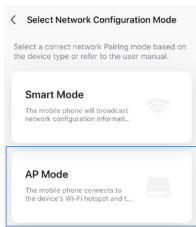
6 FAQ

1. Only need to pair one device

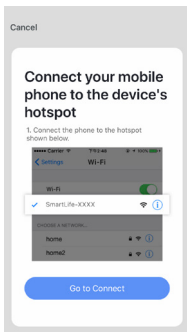
If there are many devices in the current environment, while you only want to pair one device, press A button for 5 seconds when the LED light is quick flashing, waiting for the LED turns to slow flashing, then select “Other Mode”



Select **AP Mode**, then pair the device



Connect to the Wi-Fi hotspot of the device: **"SmartLife-XXX"**



It will take a few time to connect to the Smartlife wifi.After the connection is completed, go back to the app and continue pairing according to the above method.

2.How to share my device for family use?

Option1: If you need to share with others, add them to your home list
(Tap **Me** > **Home Management** > **Add members**)

Option2: You can enter the single device control page in the app
(Tap the button at the top right corner  > **Share device** > **Add sharing**)

3.Add device failure

- 1.Confirm the device is powered on.
- 2.Confirm the device is under config mode (LED light is rapidly/ slowly flashing), and pair the device in corresponding methods.
- 3.Confirm the device, mobile phone, router are as close as possible.
- 4.Please confirm the network is stable. (Check method: Put the phone or ipad besides your device and make sure they are in the same network environment, try to open a website to judge if the network can be used.)

5. Confirm the entered router password is correct.
6. Confirm adding device is under 2.4G WI-FI channel, enable the broadcast and not allow to hide Wi-Fi. If 2.4G and 5G WIFI use the same name, it is recommended to change to a different name.
7. Confirm that router's encryption method is WPA2-PSK, authentication type is AES, or both are set up as automatic.
8. Make sure that the router can connect to the device's amount limit.
9. If router enables MAC address filter, please try to remove the device from MAC filter list and make sure router is allowing device to be connected.
10. Make sure that the router has the DHCP service enabled. If it is not enabled, device cannot connect with internet.
11. If it still doesn't work, it may be that the router is not compatible with the device. It is recommended that you replace the router and try again.

4. What if the device is offline?

1. Please confirm whether the device is energized.
2. Please confirm whether the device or the network has been cut off, if so, there is a process to go online. Please check whether it is online after 2 minutes.
3. Please confirm the network is stable. (Check method: Put the phone or ipad besides your device and make sure they are in the same network environment, try to open a website to judge if the network can be used.)
4. Please confirm whether the home Wi-Fi network is normal, or whether the Wi-Fi name and password has been modified. If necessary, remove the device and add again.
5. If the network is normal, but the device is still offline, please check if there are too many Wi-Fi connections. Please try to restart the router, wait for 5 minutes and observe the status of the device.
6. Check if the firmware is the latest version, the App side checks the path: **Me > Settings > About**, then you can check the updates.
7. If there still have problems after the above checking, it is recommended to remove the device and add it again.

7 Technical specifications

Compatibility	
Compatible systems	• 2-stage heater and 2-stage cooling HVAC systems • Supports natural gas, heat pump, electric, hot water, steam or gravity, gas fireplaces (24 Volts), oil heat sources • Supports any combination of systems
Heat	• Up to 2 stages
Cool	• Up to 2 stages
Aux Heat	• Up to 2 Stages
Heat Pump	• Up to 2 Stages • 1 stage + 1 aux • 1 stage + 2 aux • 2 stage + 1 aux • 2 stage + 2 aux • Dual Fuel Heat Pump • 4 stage heating (2 compressor, 2 aux heat), 2 stage cooling

Wireless Connectivity	
Wi-Fi	• Wi-Fi 802.11b/g/n 2.4GHz
Output Power	• +3dBm (up to +8dBm)
Receive Sensitivity	• -100dBm
OTA	• Over-the-Air Upgradable via wifi

HVAC Control Functions

System Mode	• Heat, Cool, Auto, Off, Emergency Heat (Heat Pump only)
Fan Mode	• On, Auto, Circulation
Advanced	• Local and remote setting of the temperature • Auto-changeover between heat and cool mode (System Auto) • Compressor short cycle protection delay of 2 minutes • Failure protection by cutting off all circuit relays thanks to the Super Capacitor
Auto Mode Deadband	• 1.5° C, 3° F
Temp. Sensing Range	• -10°C to 125°C
Temp. Resolution	• 0.1° C, 0.2° F
Temp. Display Accuracy	• ±1°C
Temp. Setpoint Span	• 0.5° C, 1° F
Humidity Sensing Range	• 0 to 100% RH
Humidity Accuracy	• ±4% Accuracy through the range of 0% RH to 80% RH
Humidity Response Time	• 18 seconds to reach 63% of the next step value

Physical Specifications

Embedded Platform	• MCU: 32-bit Cortex M4; RAM: 192K; SPI Flash: 16M
LCD Screen	• 3.5" TFT Color LCD, 480*320 pixels
LED	• 3-color LED (Red, Blue, Green)
Buttons	• One rotary control wheel, 3 side-buttons
PIR Sensor	• Sensing Distance 5m, Angle 30°
Speaker	• Click sound
Data Port	• Micro USB
DIP Switch	• Power selection
Electrical Rating	• 24 VAC, 2A Carry
Switches/Relays	• Latching type relay, 2A maximum loading • 1. 1st stage control • 2. 2nd stage control • 3. 3rd stage control • 4. Emergency Heating control • 5. Fan Control • 6. Heating/cooling Reverse Valve Control • 7. Common
Dimensions	• 160(L) × 87.4(W) × 33(H) mm
Mounting Type	• Wall Mounting
Wiring	• 18 AWG, Requires both R and C wires from the HVAC System
Operating Temperature	• 0° C to 40° C (32° F to 104° F)
Storage Temperature	• -30° C to 60° C
Certification	• FCC

8 Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Smart Thermostat and other property. Read all the safety notices below before using the Smart Thermostat.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit on your own.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

FCC Statement

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

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:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Support

If you have questions, we have answers.

Technical support is available by email :

info@owon.com

Compatible systems

The PCT503 Thermostat works with most centralized residential heating and cooling systems.

- 2-stage heater and 2-stage cooling HVAC systems
- Supports natural gas, heat pump, electric, hot water, steam or gravity, gas fireplaces (24 Volts), oil heat sources
- Supports any combination of systems

The app supports both **Android** and **IOS**

