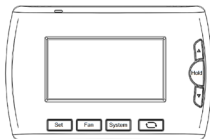


Smart Thermostat PCT501-HA

User Guide

1 Welcome

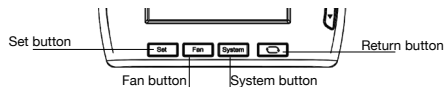
Meet your Smart Thermostat.



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. With a smart thermostat, you will be able to remotely control the temperature anytime through your mobile phone.

This guide will provide you with an overview of the product and help you get through the initial setup.

2 Get to know your device



Return button

- **Return.** Return to main interface.
- **Time & Date.** Press to show time & date when on the main interface.
- **Disconnect from the gateway's network.** Press and hold the Return button and the Down button simultaneously until the LED indicator flashes in red to disconnect from the gateway.
- **Reset thermostat.** Press the set button to enter the setting pages, then press and hold the Return button for five seconds until the reset dialog box pops up to reset the thermostat to the default factory setting.

System button

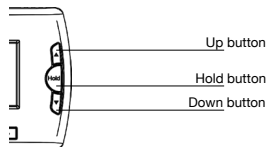
- **System mode.** Press to switch among Heat, Cool and Off mode.
- **Right button.** Use as a right button in the setting pages.

Fan button

- **Fan mode.** Press to switch among Auto, On and Circle.
- **Left button.** Use as a left button in the setting pages.

Set button

- **Page switch.** Press to switch from different pages.
- **Device info.** Press the set button for about three seconds until the information shows up.

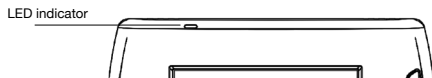


Hold button

Working mode. Press to switch among Schedule, Temp Hold, Perm Hold and Away mode.

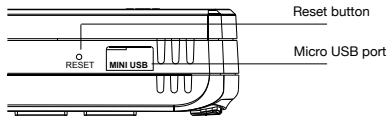
Up/Down button

Change value. Press the up/down button to increase/decrease the selected value.



LED indicator

Device status. The Green LED indicates the device has successfully joined to the gateway's network while red means it has not.



Reset button

Restart thermostat. Use a pin to press the reset button to restart the thermostat.

3 Get started

3.1 To get started, you will need:

A ZigBee gateway.

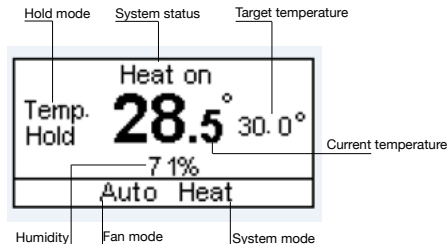
A mobile phone with mobile APP installed.

Note: Follow the Installation Guide – PCT501-HA to install the thermostat before connecting the device to the gateway.

3.2 Connect to the gateway's network

1. Set the gateway to permit joining.
2. The LED indicator of the thermostat will flash in red when it is not connected to a gateway's network.
3. The smart thermostat will join the gateway's network automatically and the LED indicator will flash in green when successfully joined.
4. After the device has been added to the gateway's network, you can use your mobile app to schedule your desired temperature for any time period.

3.3 Overview



System status

- **Heat on.** Heating system is working.
- **Cool on.** Cooling system is working.

Hold mode

- **Program Schedule.** Switch between different time periods set in the schedule interface.
- **Temp Hold.** Temporarily reach the target temperature and hold until the next scheduled period.
- **Perm Hold.** Maintain the target temperature.
- **Away.** Reach and maintain the away heat/cool temperature.

System mode

- **Heat.** Thermostat is in heating system mode.
- **Cool.** Thermostat is in cooling system mode.
- **Off.** Heating and cooling system are off.

Fan mode

- **On.** Fan is always running.
- **Auto.** Fan is running when the heating or cooling system is on.
- **Circle.** Fan is running randomly, about 33% of the time.

Setting pages

Press the Set button, use the Fan/System button to select the functions and the Up/Down button to change the setting.

- **Time Zone Setup.** To change the time zone and to turn On/Off Daylight Saving Time.
- **Time/Date Setup.** To set the system time and date.
- **Display Format.** To change the clock/temperature format and to reset the thermostat by pressing the return button for five seconds.
- **Thermostat Setup.** To change the heat cycle rate and Heat Fan Control.
- **Schedule Setup.** To change the schedule setting.
- **Away Setting.** To set the target temperature when you are away.

4 Technical specifications

SOC Embedded Platform	• CPU: ARM Cortex-M3
Wireless Connectivity	• ZigBee 2.4GHz • IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m / 30m
ZigBee Profile	• Home Automation Profile
Data Interfaces	• UART (Mini USB port) • AC 24V
Power Supply	• Rated power consumption: 1W
LCD Screen	• 3" LCD • 128 x 64 pixels
Thermostat	• Stages: Single Heating and Single Cooling • Switch position (System): HEAT-OFF-COOL • Switch position (Fan): AUTO-ON-CIRC • Power method: Hardwired • Sensor element: Humidity / Temperature Sensors
Dimensions	• 120 (L) x 22 (W) x 76 (H) mm
Weight	• 186 g
Mounting Type	• Wall Mounting

5 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.