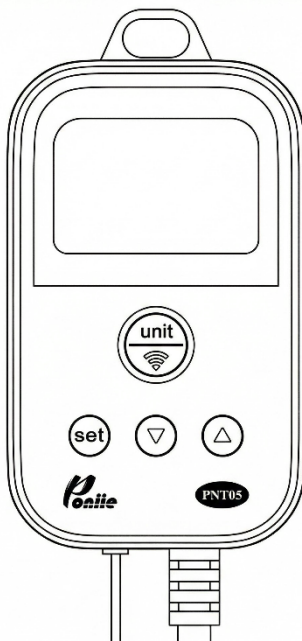




User Manual



Model No: **PNT05**

Thank you for purchasing the **Remote Wireless Master-Slave Temperature Controller** by Poniie. Please read this manual carefully before using it.

Safety Precautions

- 1.1 ENSURE THE PRODUCT IS USED WITHIN THE SPECIFICATION.**
- 1.2 RISK OF ELECTRIC SHOCK, DO NOT PLUG INTO ANOTHER RELOCATABLE POWER TAPS OR AN EXTENSION CORD.**
- 1.3 DO NOT OPERATE THE CONTROLLER NEAR ANY HIGH TEMPERATURE, HIGH HUMIDITY, EXPLOSIVE OR INFLAMMABLE FIELD.**
- 1.4 CHILDREN ARE NOT ALLOWED TO OPERATE THE DEVICE. KEEP CHILDREN AWAY FROM THE CONTROLLER.**
- 1.5 NORMALLY, LIFE OF THE RELAY IS 100,000 TIMES. IF HEATING OR COOLING SWITCHES FREQUENTLY WHEN USING, SERVICE LIFE GET SHORTER.**

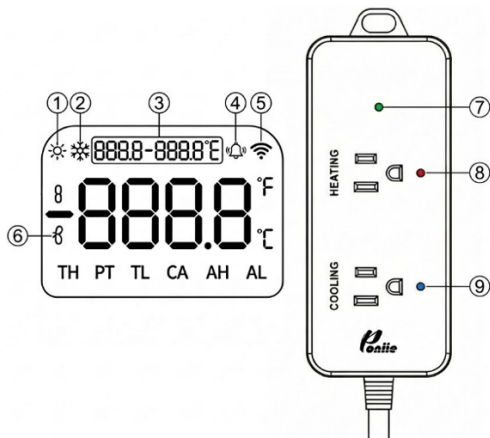
Main Features

PNT05 is an ideal DIY solution designed for simultaneous connection of heating and cooling equipment to achieve precise and reliable temperature control. Perfect for various DIY tasks, such as Sous-vide, Terrarium Heat Control, Heat Mats, Germination, Fermentation and Home Brewing.

- Easy to use, auto 2-step setpoint remote controller.

- Wireless Master-Slave Split type, easy for DIY projects.
- Dual relay output for heating and cooling device;
- Support reading with °C/ °F;
- Power-off memory;
- Calibration function;
- Compressor delay protection;
- High and low temperature alarm;
- Faulty sensor alarm

Get to Know the Device



① Heating load working indicator

② Cooling load working indicator

- ③ Temperature range setting value
- ④ Over range High and Low alarm
- ⑤ Wi-Fi connection indicator
- ⑥ NTC sensor failure indicator
- ⑦ Power ON/OFF & Master connection status indicator
- ⑧ Heating load working indicator
- ⑨ Cooling load working indicator

Wi-Fi Setup & Add Devices

NOTE: Ponii Remote Wireless Master-Slave Temperature Controller is able to operate independently without the app. Data synchronization in the app may be delayed by a few seconds.

1 Download Smart Life App



Please scan the QR code or download **Smart Life** on App store.

2 Registration/ Log in or No-account as a guest

Enter the Register/Login interface, tap “Register” to create an account or choose “Log in” if you already have a Smart Life account. **NOTE:** Recommend to “Try as a guest” and no need to complete the account.

3 Configure the Sensor Monitor to the App

Preparation: Plug the controller monitor into powered outlets to power on the device automatically; ensure your phone has been connected to the same Wi-Fi (Internet connection required) and put your phone as close as possible to the PNT05 Monitor.

Note: The App requires Bluetooth for the initial connection or new connections.

Note: The Monitor only supports **2.4G** network. Make sure you have a 2.4G compatible network.

Then open Smart Life App and Click “add device” or “+” to add **Poniie Remote Control Thermostat**. **Note:** the prompt page will automatically show the device on the top screen. If no searching device found, please try to reset or re-pair Wi-Fi.

How to reset/re-pair Wi-Fi

Press and hold the “WiFi” key on PNT05 for 5 seconds to disconnect or repair with the phone app. Wi-Fi indicator on the screen will flash for pair connection.

Specifications

Temperature Controller Outlets Socket Unit (Slave)

Power: 110~220Vac, 50/60Hz

Max Relay Output:

1650W (110V) /3300W (220V) for resistive load such as fan, heat mat

1000W (110V) /2200W (220V) for inductive load such as compressor, heat pump

Communication Distance with Monitor Sensor Unit: >20 meters

Temperature Controller Monitor Unit (Master)

Power: 110~220Vac, 50/60Hz

Rate: 1.5W, Low Voltage Safety Control Panel

Accuracy:

Temperature Range (°F) Fahrenheit Error

$-4^{\circ}\text{F} \leq T < 50^{\circ}\text{F}$ $\pm 3^{\circ}\text{F}$

$50^{\circ}\text{F} \leq T < 185^{\circ}\text{F}$ $\pm 2^{\circ}\text{F}$

$185^{\circ}\text{F} \leq T \leq 302^{\circ}\text{F}$ $\pm 3^{\circ}\text{F}$

WiFi Communication distance: >10 meters

Others

Temperature Control Range	-4 ~ 302°F
Temperature Resolution	0.1
Input Power	110~220V, 50/60Hz
Maximum Output Load	15A, 1650W (110V) /3300W (220V)
Sensor Type	NTC sensor R25=1000K Ω $\pm 1\%$
Control Panel Cable Length	1.4m / 4.6ft
Outlets Unit Cable Length	1.9m / 6.3ft
Sensor Length	1.5m / 5.0ft
Ambient Temperature	-20.0 ~ 55.0 °C
Ambient Humidity	20~85% (No Condensate)

Key Operation Instruction

1. Parameter Definitions:

TH: High temperature range point	(default 80 °F)
TL: Low temperature range point	(default 71 °F)
PT: Compressor start delay time value	(default 0 min)
AH: High temperature alarm value	(default 176 °F)
AL: Low temperature alarm value	(default -4 °F)
CA: Temperature calibration value	(default 0°F)

2. Parameter Settings:

NOTE: YOU CAN DIRECTLY CONFIGURE ALL THE PARAMETER SETTINGS BY CLICKING THE **GEAR ICON** IN THE APP DISPLAY.

1. On the temperature control screen, short press the **set** button to select parameters in the following sequence:

TH → TL → PT → AH → AL → CA → Exit

2. After selecting the parameter to modify, hold press the **set** button to enter value adjustment mode.

3. Short press the **set** button to select the digit to be modified (3 integer digits + 1 decimal digit).

4. Short press the ▲ button to increase the value or the ▼ button to decrease the value.

5. The leftmost digit is used to select whether the value is

positive or negative.

6. After adjusting all digits, hold press the **set** button again to save the setting and return to the previous menu.

Note: If no button is pressed for more than 10 minutes in the parameter setting menu, the system will automatically exit.

Note: When the main unit is powered off, heating and cooling outputs stop, and the green indicator flashes.

3. Temperature Control Range Setting (TH, TL)

This controller has a heating and cooling control socket. Always set a proper range and test several times for your DIY project.

Note: When the set temperature (**TH-TL**) is **less than 10 °C**, the controller will regulate temperature from TH, TL to the near midpoint.

When the set span (**TH-TL**) is **10 °C or greater**, the system regulates the temperature from TH, TL to a defined central band (allowing a reasonable & stable operating range based on the selected settings).

4. Temperature Alarm Setting (AL, AH)

When measured temperature $\leq$ AL, low temperature alarm sound and icon will be triggered.

When measured temperature $\geq$ AH, high temperature alarm sound and icon will be triggered.

Note: Temperature control performance depends on the heating and cooling equipment rating. As a result, the actual temperature may slightly overshoot the TL–TH range. Users are advised to set appropriate AL–AH alarm thresholds as practical operating range.

[5]. Compressor Delay Protection Time (PT)

If needed, you can set a delay time to prevent your compressor from start ON/OFF too frequently. Under cooling mode, PT setting will keep the refrigeration off between cycles to protect your compressor. That means compressor won't start refrigeration immediately, but waiting for a delay time if it falls into the PT time frame (0~15min).

[6]. Temperature Calibration (CA)

When there is a deviation between measured temperature and actual temperature, you can use the calibration function to align the measured temperature and actual temperature. The corrected temperature equals to temperature before calibration plus corrected value (-10.0~10.0°F).

FCC Compliance Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Warranty

This product is covered by a one-year limited warranty for quality-related issues. If the device fails to operate properly, please contact customer support at support@poniie.com