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PNI CT25T

PNI CT25T Intelligent Thermostatic Head User Manual

Model: CT25T | Brand: PNI

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your PNI CT25T Intelligent Thermostatic Head. Please read these instructions carefully before using the device to ensure safe and efficient operation. This thermostatic head is designed to regulate the water flow from your radiator based on air temperature, allowing for individual room temperature control. It does not control the boiler directly.

2. Product Overview

2.1 Key Features

- Measures air temperature and regulates radiator water flow.
- Wireless connectivity with CT25WIFI Hub for internet control.
- Control via Tuya Smart mobile application.
- Multiple operating modes: Manual, Scheduled, Vacation.
- Programmable schedule with up to 4 time periods per day.
- Advanced functions: Open window detection, anti-freeze, child protection.
- Illuminated screen with low battery and signal indicators.

2.2 Package Contents

- PNI CT25T Thermostatic Head with M30 adapter
- Set of 6 adapters for various thermostatic valves (e.g., Danfoss, Giacomini, Caleffi)
- User Manual



Figure 1: PNI CT25T Thermostatic Head front view with illuminated display.

3. Specifications

Feature	Description
Power Supply	2 x 1.5V AA alkaline batteries
Frequency	868 MHz
Set Temperature Range	+5°C ~ +35°C
Hysteresis	0.5°C
Setting Step	0.5°C
Measurement Accuracy	±1°C

Feature	Description
Maximum Piston Extension	5.0 mm
Dimensions	Ø 55 x 69 mm (2.17 x 3.15 x 2.17 inches)
Item Weight	0.23 Kilograms (8.1 ounces)
Connectivity Technology	Wi-Fi (via CT25WIFI Hub)
Control Method	App (Tuya Smart) / Button Control
Display Type	Backlit LCD

4. Setup and Installation

4.1 Battery Installation

1. Gently remove the back cover of the thermostatic head.
2. Insert two (2) 1.5V AA alkaline batteries, ensuring correct polarity (+/-).
3. Replace the back cover securely.



Figure 2: Battery compartment for 2x AA batteries.

4.2 Mounting on Radiator Valve

1. Identify the type of thermostatic valve on your radiator.
2. Select the appropriate adapter from the provided set of 6 that matches your valve type (e.g., Danfoss, Giacomini, Caleffi).
3. Attach the selected adapter to your radiator valve.
4. Carefully screw the PNI CT25T Thermostatic Head onto the adapter until it is firmly secured. Ensure the head is oriented correctly for display visibility.



Figure 3: Thermostatic head with M30 adapter connection.

4.3 Connecting to CT25WIFI Hub and Tuya Smart App

1. Ensure your CT25WIFI Hub is powered on and connected to your home Wi-Fi network.
2. Download the **Tuya Smart** mobile application from your device's app store (iOS or Android).
3. Register or log in to your Tuya Smart account.
4. Follow the in-app instructions to add a new device. Select the PNI CT25T Thermostatic Head from the list of available devices.
5. The app will guide you through the pairing process with the CT25WIFI Hub. Once paired, you can control and monitor the thermostatic head remotely.

5. Operating Instructions

5.1 Display and Buttons

The PNI CT25T features an illuminated LCD display and several control buttons:

- **Up (▲) / Down (▼) Buttons:** Adjust temperature, navigate menus.
- **Power Button ( ):** Turn the device on/off, confirm selections.
- **'P' Button:** Program mode / Schedule settings.
- **'M' Button:** Mode selection (Manual, Auto/Scheduled, Vacation).

5.2 Setting Temperature

In manual mode, use the Up (▲) and Down (▼) buttons to adjust the desired temperature. The new setting will be displayed and applied.

5.3 Operating Modes

- **Manual Mode:** The device maintains a constant temperature set by the user until changed.
- **Scheduled Mode (Auto):** Follows the pre-programmed temperature schedule.
- **Vacation Mode:** Maintains a lower, energy-saving temperature for a specified duration, ideal when away from home.

Press the 'M' button to cycle through these operating modes.

5.4 Programming Schedules

The device allows for up to 4 time periods per day, each with its own temperature setting. To set schedules:

1. Press the 'P' button to enter program mode.
2. Use the Up (▲) / Down (▼) buttons to select the day or period you wish to modify.
3. Press the Power ( ) button to confirm and move to the next setting (start time, end time, temperature).
4. Repeat for all desired periods and days.
5. Exit program mode by pressing 'P' again or waiting for a timeout.

Detailed scheduling can also be performed via the Tuya Smart mobile application, which often offers a more intuitive interface.

5.5 Advanced Functions

Access the advanced settings menu (refer to the Tuya Smart app or device-specific button combinations) to configure:

- **Hysteresis:** Adjusts the temperature differential before the valve opens/closes.
- **Anti-freeze Function:** Prevents pipes from freezing by maintaining a minimum temperature.
- **Child Protection Function:** Locks the device buttons to prevent accidental changes.
- **Open Window Function:** Detects a sudden drop in temperature (open window) and temporarily closes the valve to save energy.
- **Reset:** Restores factory settings.

6. Maintenance

6.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the surface and electronic components.

6.2 Battery Replacement

When the low battery indicator appears on the display, replace both AA alkaline batteries promptly. Refer to Section 4.1 for battery installation instructions. Always replace both batteries at the same time with new ones.

7. Troubleshooting

- **Device not turning on:** Check battery installation and ensure batteries are new and correctly inserted.
- **No display:** Ensure batteries are installed correctly and have sufficient charge.
- **Radiator not heating/cooling as expected:**
  - Verify the set temperature is appropriate for the desired action.
  - Check the operating mode (Manual, Scheduled, Vacation).
  - Ensure the thermostatic head is properly mounted and the valve pin can move freely.
  - Confirm the CT25WIFI Hub is online and connected to the internet if controlling via app.
- **Cannot connect to Tuya Smart app:**
  - Ensure the CT25WIFI Hub is powered and connected to your Wi-Fi.
  - Check your Wi-Fi signal strength.
  - Restart the thermostatic head and the CT25WIFI Hub.
  - Attempt the pairing process again as described in Section 4.3.
- **Inaccurate temperature reading:** Ensure the device is not exposed to direct sunlight, drafts, or heat sources that could affect its internal sensor.

8. Warranty and Support

8.1 Warranty Information

Warranty terms and conditions for the PNI CT25T Intelligent Thermostatic Head are provided by your retailer at the time of purchase. Please retain your proof of purchase for any warranty claims. For specific warranty details, refer to the documentation included with your product or contact your point of sale.

8.2 Technical Support

For technical assistance or further inquiries, please visit the official PNI website or contact their customer support. You can find more information and support resources at www.pni.ro.


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Figure 4: Product packaging with manufacturer information and QR code.

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