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EZAIoT EZ-T5N

EZAIoT EZ-T5N Programmable Thermostat User Manual

Model: EZ-T5N

1. Introduction

Thank you for choosing the EZAIoT EZ-T5N Programmable Thermostat. This device is designed to provide precise and efficient temperature control for your home, compatible with most gas heating systems and electric actuators for underfloor heating distributors. Its weekly programming feature helps optimize energy consumption and enhance comfort. Please read this manual carefully before installation and operation to ensure proper use and longevity of the product.

2. Product Features

- **Smart Weekly Programming:** Set up to 6 daily periods for precise, minute-by-minute temperature control to save on heating costs.
- **Wide Compatibility:** Utilizes a potential-free contact, compatible with most gas heaters and electric actuators for underfloor heating distributors.
- **Simple, Wireless Installation:** The wall-mounted design requires no complex wiring. Operates on 2 AA batteries for up to 750 days of use.
- **Ultra-Thin and Modern Design:** With a thickness of only 20.8 mm, it offers a slim design and a clear TN display for easy operation.
- **Advanced Protection:** Features power-off memory to protect settings, a key lock to prevent accidental changes, and frost protection to safeguard pipes in cold temperatures.

3. Package Contents

Please check the package for the following items:

- EZAIoT EZ-T5N Programmable Thermostat Unit
- Mounting Screws and Wall Plugs
- 2 x AA Alkaline Batteries
- User Manual (this document)

4. Safety Information

To prevent damage to the product or injury to yourself and others, please observe the following safety precautions:

- **Electrical Safety:** Installation should only be performed by a qualified electrician or competent person. Always switch off the main power supply to the heating system before performing any wiring.
- **Battery Safety:** Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries. Dispose of used batteries properly according to local regulations.
- **Placement:** Do not install the thermostat near heat sources (e.g., radiators, direct sunlight) or in areas with drafts, as this can affect temperature readings.
- **Cleaning:** Use a soft, dry cloth to clean the thermostat. Do not use abrasive cleaners or solvents.
- **Children:** Keep the device out of reach of children.

5. Installation and Setup

5.1. Mounting Location

Choose an indoor wall location approximately 1.5 meters (5 feet) above the floor, away from direct sunlight, drafts, and heat sources. Ensure the location allows for accurate room temperature sensing.

5.2. Wiring

The EZAIoT EZ-T5N thermostat uses a potential-free contact (dry contact) and is compatible with gas boilers and electric actuators. Always ensure the main power supply to your heating system is OFF before wiring.

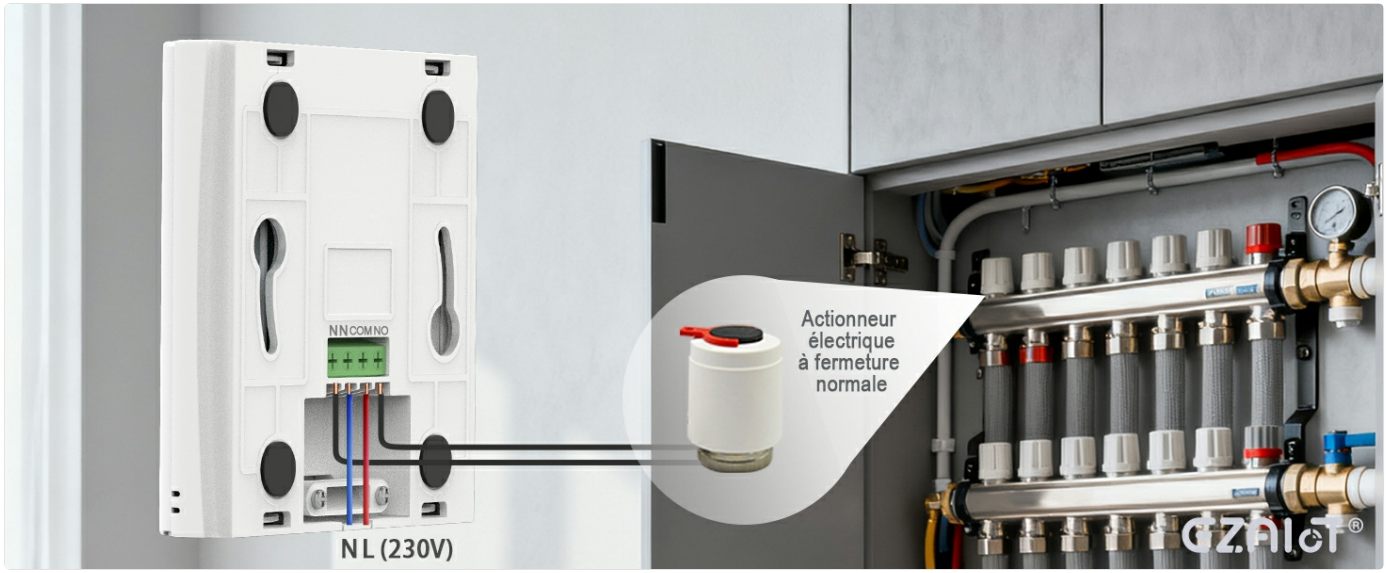


Figure 5.2.1: Wiring Diagrams. Left: Wiring for a gas boiler (clean contact). Right: Wiring for electric actuators (24-230V AC, 5A max).



Figure 5.2.2: Thermostat Rear View with Wiring Terminals. Connect wires to the appropriate terminals (N, N, COM, NO) as per your heating system's requirements.

1. Separate the front panel of the thermostat from its backplate.
2. Connect the heating system wires to the terminals on the backplate. For gas boilers, typically connect to COM and NO. For electric actuators, follow the specific wiring diagram provided by the actuator manufacturer, connecting to N, L, COM, and NO as required.
3. Ensure all connections are secure.

5.3. Wall Mounting

1. Mark the positions for drilling on the wall using the backplate as a template.
2. Drill holes and insert wall plugs.
3. Secure the backplate to the wall using the provided screws.
4. Carefully attach the front panel of the thermostat onto the mounted backplate, ensuring it clicks securely into place.

5.4. Battery Installation

The thermostat is powered by 2 AA batteries.



Figure 5.4.1: Battery Installation. Insert 2 AA batteries into the side compartments, observing polarity.

1. Locate the battery compartments on the sides of the thermostat.
2. Open the battery covers.
3. Insert 2 AA alkaline batteries, ensuring correct polarity (+ and -).
4. Close the battery covers. The thermostat display should light up.

6. Operation

6.1. Display Overview

Familiarize yourself with the thermostat's display and buttons.



Figure 6.1.1: Thermostat Display and Controls. Key indicators include: Child Safety Lock, Weekday Display, Time Display, Battery Power, Sensing Temperature, Heating Activated, Auto/Manual Mode, Temperature Adjustment, and Event/Program Period.

- **Current Time:** Displays the current time.
- **Current Temperature:** Shows the actual room temperature.
- **Set Temperature:** Indicates the desired temperature.
- **Heating Indicator:** Flame icon appears when heating is active.
- **Mode Indicator:** Shows Auto (programmed) or Manual mode.
- **Child Lock:** Lock icon indicates key lock is active.
- **Battery Indicator:** Shows battery level.
- **Buttons:**
  - **'+' / '-':** Adjust temperature or navigate settings.
  - **'M' (Mode):** Switch between Auto/Manual mode, enter programming.
  - **'Power' / 'Confirm':** Turn on/off, confirm settings.

6.2. Initial Settings (Time and Date)

Upon first power-up or after battery replacement, you may need to set the current time and day.

1. Press and hold the 'M' button for a few seconds to enter the settings menu.
2. Use '+' or '-' to adjust the hour, then press 'M' to confirm and move to minutes.
3. Adjust minutes, then press 'M' to confirm and move to day of the week.
4. Adjust the day (1=Monday, 7=Sunday), then press 'M' to save and exit.

6.3. Weekly Programming

The thermostat allows for up to 6 programmable periods per day for each day of the week (or weekdays/weekends). This feature helps maintain comfort while saving energy.



Figure 6.3.1: Weekly Schedule Example. Illustrates 6 programmable events throughout the day with corresponding temperatures.

1. Press the 'M' button repeatedly until you enter the programming mode (usually indicated by a program number or icon).
2. Use '+' or '-' to select the day(s) you want to program (e.g., Mon-Fri, Sat-Sun, or individual days).
3. Press 'M' to select the first period (P1). Use '+' or '-' to set the start time and desired temperature for P1.
4. Press 'M' to move to the next period (P2) and repeat the process for all 6 periods.

5. After setting all periods for the selected day(s), press 'M' to move to the next day group or exit programming mode.
6. Ensure the thermostat is in 'Auto' mode for the weekly program to run.

6.4. Manual Control

In Manual mode, the thermostat maintains a constant temperature set by the user, overriding the weekly program.

1. Press the 'M' button to switch from 'Auto' to 'Manual' mode.
2. Use '+' or '-' to adjust the desired temperature. The thermostat will maintain this temperature until you switch back to 'Auto' mode.

6.5. Special Functions

- **Child Lock:** To prevent accidental changes, press and hold '+' and '-' buttons simultaneously for a few seconds until a lock icon appears. Repeat to unlock.
- **Frost Protection:** This feature automatically activates heating if the room temperature drops below a preset minimum (e.g., 5°C / 41°F) to prevent pipes from freezing. This is typically an always-on background function.
- **Night Mode:** The display automatically dims in low light conditions or after a period of inactivity to avoid disturbing sleep.



Figure 6.5.1: Night Mode Screen. The display automatically darkens to avoid interference with sleep.

7. Maintenance

7.1. Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure continuous operation. Refer to Section 5.4 for battery installation instructions. Settings are typically retained for a short period during battery replacement due to power-off memory.

7.2. Cleaning

Wipe the thermostat's surface with a soft, dry cloth. Do not use liquid cleaners, sprays, or abrasive materials.

8. Troubleshooting

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries.	Replace batteries with new AA alkaline batteries.
Heating system not responding.	Incorrect wiring; thermostat in 'Off' mode; heating system issue; thermostat not calling for heat.	Check wiring (Section 5.2). Ensure thermostat is 'On' and in 'Auto' or 'Manual' mode with set temperature above current room temperature. Check boiler/heating system for faults.
Temperature reading seems inaccurate.	Thermostat located near heat source, draft, or direct sunlight.	Relocate thermostat to a more suitable position (Section 5.1). Allow time for temperature to stabilize.
Thermostat not following program.	Thermostat is in 'Manual' mode; program not set correctly.	Switch to 'Auto' mode. Re-check weekly program settings (Section 6.3).
Buttons are unresponsive.	Child lock is active.	Deactivate child lock (Section 6.5).

9. Specifications

Brand	EZAIoT
Model Number	EZ-T5N
Product Dimensions	2.1D x 8.6W x 9H cm (0.83D x 3.39W x 3.54H inches)
Color	White
Material	Acrylonitrile Butadiene Styrene (ABS)
Power Source	Battery Powered (2 x AA batteries, included)
Display Type	TN Display
Control Type	Button Control
Mounting Type	Wall Mount
Special Features	Programmable, Temperature Display, Clock, Date, Low Voltage Indicator

Connectivity Technology	Wired (for heating system connection)
Specific Uses	Boiler, Underfloor Heating Actuators

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