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> AVATTO ZWT100 3A Zigbee Tuya Smart Boiler Heating Thermostat User Manual

AVATTO ZWT100-BH-3A

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Model: ZWT100-BH-3A

1. INTRODUCTION AND OVERVIEW

The AVATTO ZWT100 3A Zigbee Tuya Smart Boiler Heating Thermostat is designed to control your boiler heating system efficiently. It features a modern LCD display, touch buttons, and smart connectivity via Zigbee, allowing remote control and scheduling through the Tuya Smart or Smart Life application on your smartphone. This thermostat provides precise temperature control for optimal comfort and energy saving in your home.



Figure 1.1: Front view of the AVATTO ZWT100 Smart Boiler Heating Thermostat.

2. SAFETY INFORMATION

- Always disconnect power to the heating system at the main circuit breaker before installation, maintenance, or removal of the thermostat.
- Installation should only be performed by a qualified electrician or heating professional in accordance with local electrical codes and regulations.
- Do not expose the thermostat to water or excessive humidity.
- Ensure the voltage supply matches the thermostat's specifications (AC100-240V).
- Do not attempt to repair or modify the thermostat yourself. Refer to qualified service personnel.

3. PACKAGE CONTENTS

Please check the package contents upon opening. If any items are missing or damaged, contact your retailer.

- AVATTO ZWT100 Smart Boiler Heating Thermostat Unit
- User Manual
- Mounting Screws (typically included)

4. PRODUCT FEATURES

- **Smart Control:** Compatible with Tuya Smart and Smart Life apps for remote control.
- **Zigbee Connectivity:** Seamless integration into Zigbee smart home ecosystems (requires a Zigbee gateway/hub).
- **LCD Display:** Clear, backlit display showing current temperature, set temperature, time, and operating mode.
- **Precise Temperature Control:** Maintains desired room temperature with high accuracy.
- **Programmable Schedules:** Create custom heating schedules to suit your lifestyle.
- **Touch Buttons:** Intuitive interface for manual operation.
- **Boiler Heating Compatibility:** Specifically designed for boiler heating systems with dry contact output.

5. SETUP

5.1. Installation

1. **Power Off:** Ensure the main power supply to your heating system is turned off at the circuit breaker before beginning installation.
2. **Mounting Location:** Choose a central location on an interior wall, away from direct sunlight, drafts, or heat sources that could affect temperature readings.
3. **Separate Front and Back Panels:** Gently pry open the thermostat to separate the front display panel from the back wiring plate.
4. **Mount Back Plate:** Secure the back wiring plate to the wall using the provided mounting screws. Ensure it is level.

5.2. Wiring Diagram

Refer to the diagram below for correct wiring. Incorrect wiring can damage the thermostat or your heating system. If unsure, consult a qualified electrician.

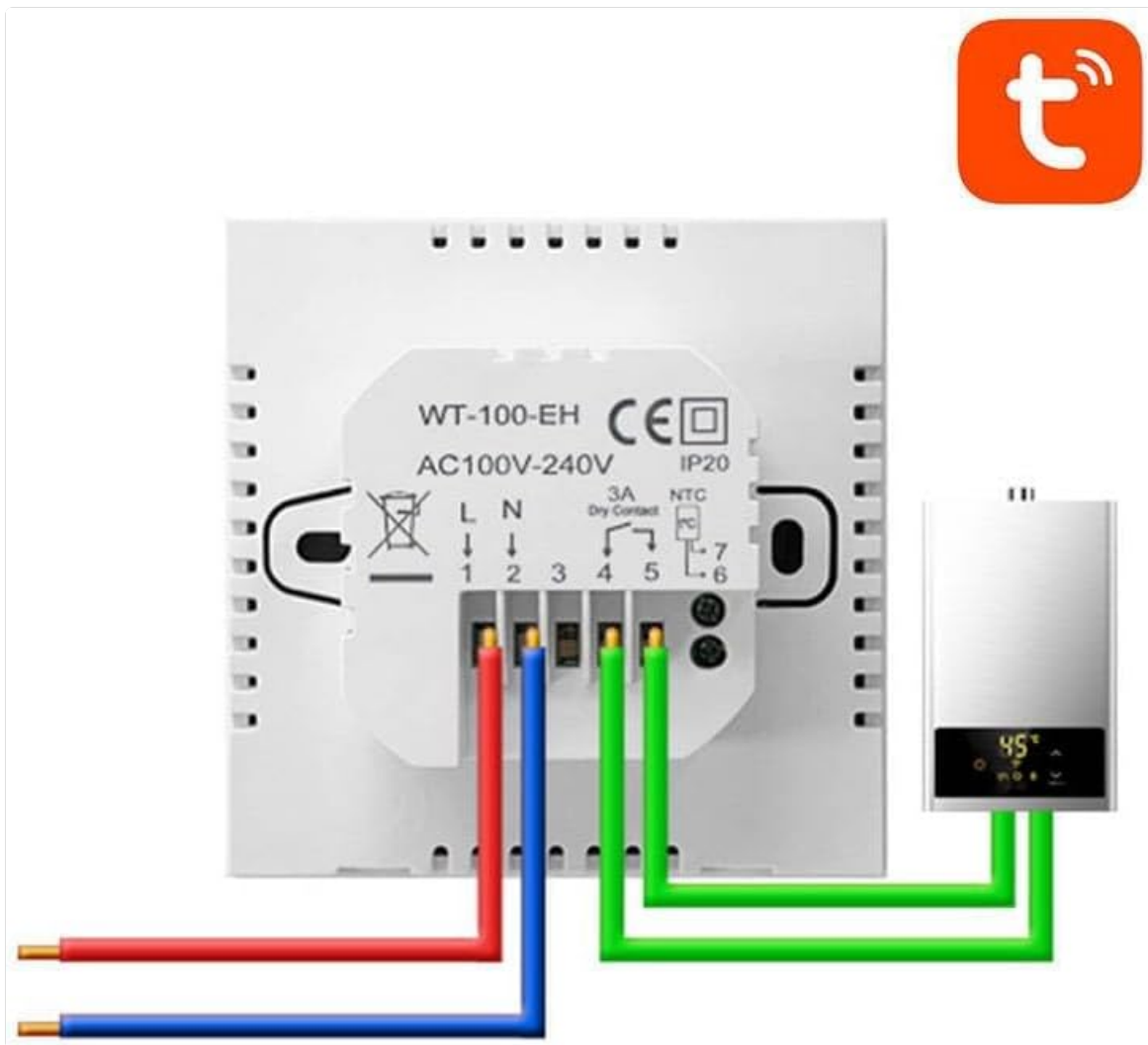


Figure 5.1: Wiring terminals on the back of the thermostat.

- **L (Live):** Connect to the Live wire from your power supply (AC100-240V).
- **N (Neutral):** Connect to the Neutral wire from your power supply (AC100-240V).
- **1, 2 (Dry Contact):** These are the dry contact output terminals for controlling your boiler. Connect these to the boiler's control input terminals (usually marked as 'Thermostat', 'RT', or 'COM/NO'). The thermostat acts as a switch, closing the circuit when heating is required.
- **7 (NTC):** This terminal is for an optional external NTC temperature sensor. If you are using an external sensor, connect it here. Otherwise, leave it unconnected. The thermostat uses its internal sensor by default.
- **Other Terminals (3, 4, 5, 6):** These terminals are typically not used for standard boiler heating applications with dry contact control. Refer to specific boiler or system diagrams if your setup requires additional connections.

After wiring, carefully attach the front display panel back onto the wiring plate. Restore power at the circuit breaker.

6. OPERATING INSTRUCTIONS

6.1. Manual Operation

- **Power On/Off:** Press the **Power button** (usually a circle with a vertical line) to turn the thermostat on or off.
- **Temperature Adjustment:** Use the **Up (▲)** and **Down (▼)** arrows to adjust the desired set temperature.
- **Mode Selection:** Press the **Mode button (M)** to cycle through different operating modes (e.g., Manual, Auto, Program).
- **Clock/Time Setting:** Press the **Clock button** (usually a clock icon) to enter time setting mode. Use Up/Down arrows to adjust.

6.2. Smart App Control (Tuya Smart / Smart Life)

To unlock the full smart features of your thermostat, connect it to the Tuya Smart or Smart Life application.

1. **Download App:** Download the "Tuya Smart" or "Smart Life" app from your smartphone's app store (iOS or Android).

- 2. **Register/Login:** Create an account or log in to your existing account.
- 3. **Add Zigbee Gateway:** Ensure you have a Zigbee gateway/hub connected to your app. The thermostat requires a Zigbee gateway to communicate with the app.
- 4. **Add Device:** In the app, tap "+" to add a new device. Select "Thermostat" or "Heating" from the device list.
- 5. **Pairing Mode:** Follow the app's instructions to put the thermostat into pairing mode. This usually involves pressing and holding a specific button on the thermostat until a network icon flashes.
- 6. **Connect:** The app will search for and connect to the thermostat. Once connected, you can rename the device and control it remotely.



Figure 6.1: Thermostat compatible with Tuya Smart Life app.

Through the app, you can set schedules, adjust temperature, view current status, and integrate with other smart home devices.

7. MAINTENANCE

- **Cleaning:** Wipe the thermostat's display and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the unit.
- **Firmware Updates:** Periodically check the Tuya Smart/Smart Life app for available firmware updates to ensure optimal performance and new features.
- **Sensor Calibration:** If you suspect inaccurate temperature readings, check the thermostat's placement and ensure no external factors are influencing the sensor. Some advanced settings in the app may allow for minor calibration.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Thermostat not powering on.	No power supply; incorrect wiring.	Check circuit breaker. Verify L and N wiring connections.
Boiler not heating.	Incorrect wiring (dry contact); thermostat in off mode; set temperature too low; boiler issue.	Check wiring to boiler (terminals 1 & 2). Ensure thermostat is on and set temperature is above room temperature. Check boiler's own power and settings.
Cannot connect to app.	No Zigbee gateway; thermostat not in pairing mode; weak Zigbee signal.	Ensure Zigbee gateway is powered and connected to the app. Put thermostat into pairing mode as per app instructions. Move gateway closer or use a Zigbee repeater.
Inaccurate temperature reading.	Thermostat placed near heat source/draft; internal sensor issue.	Relocate thermostat if possible. Check for drafts or direct sunlight. If using external sensor, ensure it's properly connected.

If the problem persists after trying these solutions, please contact customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	AVATTO
Model Number	ZWT100-BH-3A
Color	Black
Special Features	Smartphone app control, smart home integration
Product Weight	1 kg
Controller Type	Push button, mechanical knob
Temperature Control Type	Heating
Connectivity Technology	ZigBee
Included Components	1 package (Thermostat unit, manual, mounting screws)
Power Source	Electric cable (Wired)
Shape	Rectangular
Display Type	LCD or LED, backlit

10. WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not available in the provided product data. Please refer to the product packaging or contact the retailer/manufacturer directly for warranty details and support inquiries.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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