AVATTO WT400S-3A-B

AVATTO Smart WiFi Thermostat WT400S-3A-B User Manual

Model: WT400S-3A-B

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AVATTO Smart WiFi Thermostat (Model WT400S-3A-B). This thermostat is designed for controlling water underfloor heating systems and gas/oil boilers, offering intelligent temperature management through its programmable features, app control, and voice assistant compatibility. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The AVATTO Smart WiFi Thermostat is an advanced device for precise climate control in your home. It features a touch screen display and can be remotely managed via the "Smart Life" or "Tuya Smart" applications.

Key Features:

- **Compatibility:** Suitable for water underfloor heating systems and gas/oil boilers. Supports electric actuators with 110-240V.
- **Smart Control:** WiFi connectivity for remote control via "Smart Life" or "Tuya Smart" apps.
- **Voice Control:** Integrates with Amazon Alexa and Google Home for hands-free operation.
- **Programmable Modes:** Offers 5+2, 6+1, or 7-day programming with multiple daily temperature settings.
- **Temperature Calibration:** Allows adjustment to match actual room temperature.
- **Adjustable Screen Brightness:** Customizable display brightness, including an option to turn it off completely.
- **Child Lock:** Prevents unauthorized changes to settings.
- **Antifreeze Function:** Protects pipes from freezing.

Figure 2.1: The AVATTO Smart WiFi Thermostat displaying current temperature and time, alongside a smartphone showing the corresponding control app interface.

Figure 2.2: Illustration of the thermostat's application in controlling both gas boiler systems and water underfloor heating, showing the heating pipes and a gas boiler unit.
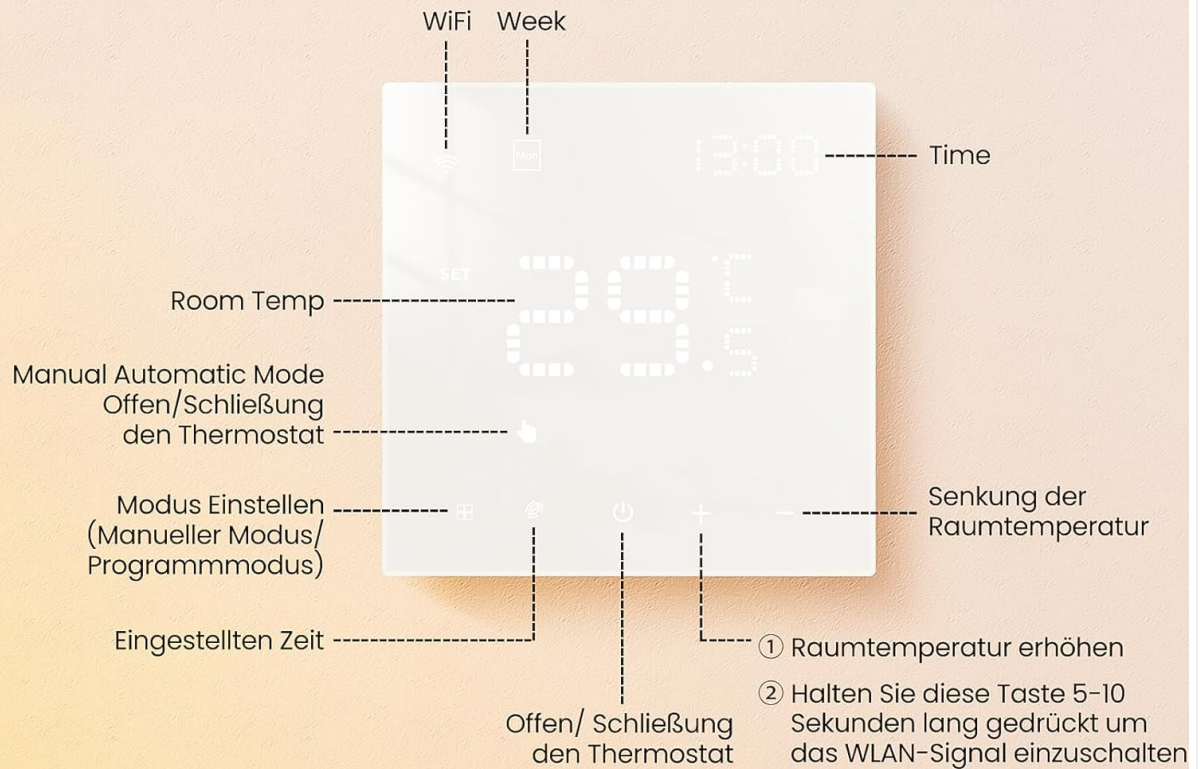
Figure 2.3: A detailed diagram indicating the various display elements and button functions on the AVATTO Smart Thermostat, including time, room temperature, manual/automatic mode, and WiFi pairing instructions.

3. Setup and Installation

3.1 Safety Precautions

- Installation must be performed by a qualified electrician.
- Ensure power is disconnected at the main circuit breaker before installation.
- Do not install in damp environments.

3.2 Wiring Diagram

The thermostat is designed for 110-240V systems. Connect the wires according to the diagram provided on the back of the device and in the illustration below. Ensure all connections are secure.
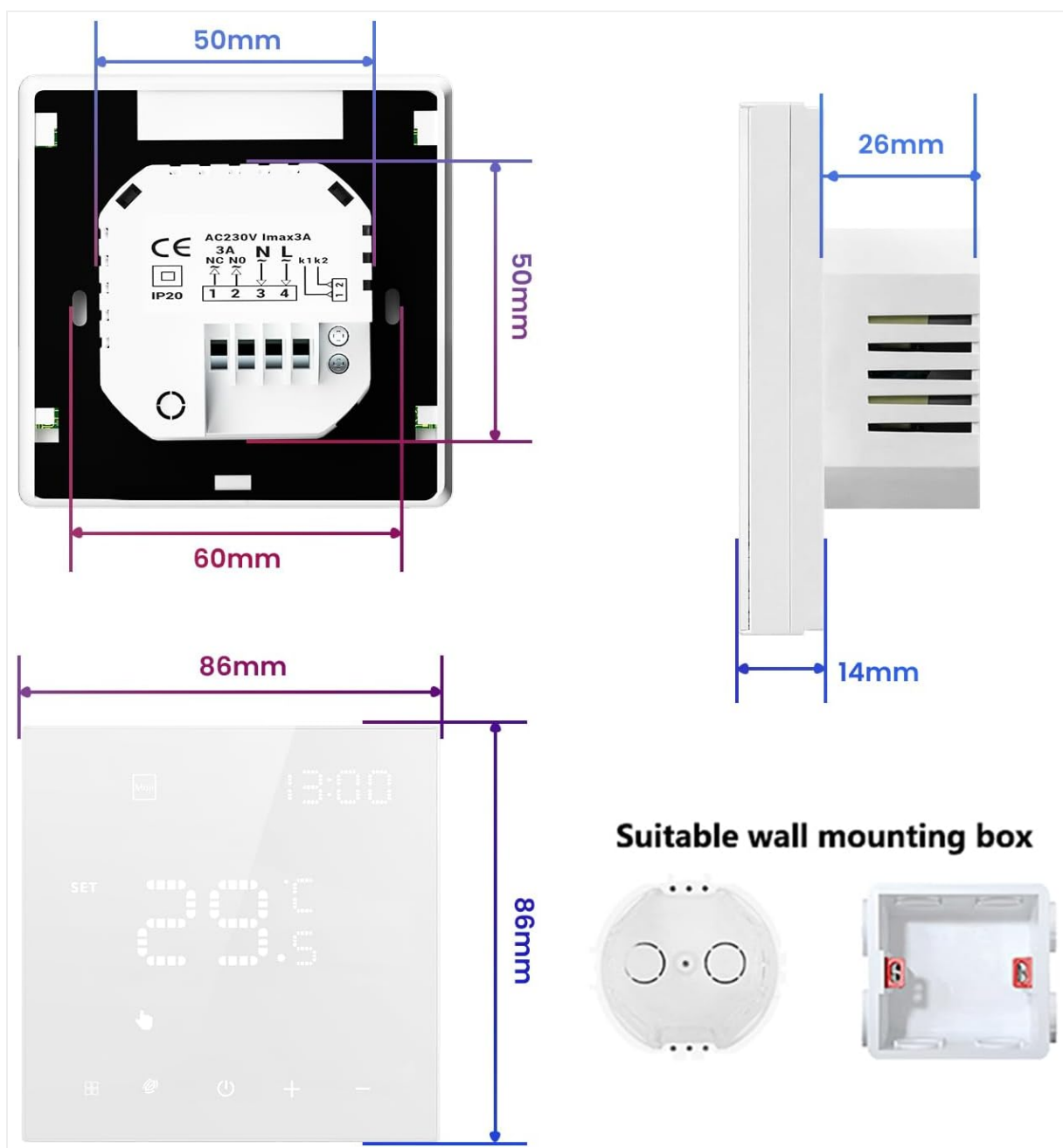
Figure 3.1: Technical drawing showing the dimensions of the AVATTO Smart Thermostat and its back panel with wiring terminals. A suitable wall mounting box is also depicted.

Note: This thermostat supports electric actuators with a voltage range of 110 to 240 volts. When used with a gas or oil boiler, the thermostat initiates boiler operation to provide hot water for heating when the room temperature falls below the set point.

3.3 App Installation and WiFi Pairing

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

2. Register or log in to your account within the app.

3. Add a new device by selecting "Add Device" or the "+" icon. Choose "Thermostat" or "Heater" from the device list.

4. On the thermostat, press and hold the WiFi button (often indicated by a WiFi icon or a specific button for 5-10 seconds) until the WiFi indicator on the thermostat starts flashing rapidly. This indicates pairing mode.

5. Follow the on-screen instructions in the app to connect the thermostat to your 2.4GHz WiFi network.

6. Once connected, the WiFi indicator on the thermostat will become solid, and you can control the device via the app.

Figure 3.2: A user interacting with the "Smart Life" app on a smartphone to remotely control the thermostat, highlighting the convenience of app-based management.

4. OPERATING INSTRUCTIONS

4.1 Manual Mode

In Manual Mode, you can set the desired temperature directly on the thermostat or via the app. The thermostat will maintain this temperature until you change it or switch to another mode.

4.2 Programmable Mode

The thermostat supports flexible programming schedules to optimize energy consumption and comfort. You can choose between 5+2 (weekdays + weekend), 6+1 (weekdays + Sunday), or 7-day programming.

- **Weekday Programming:** Up to 6 different temperature settings per day.
- **Weekend Programming:** Up to 2 different temperature settings per day.

Access the programming settings through the "Program" or "Schedule" option in the app or directly on the thermostat's menu.

4.3 Voice Control

Integrate your AVATTO thermostat with Amazon Alexa or Google Home for convenient voice commands.

1. Ensure your thermostat is successfully paired with the "Smart Life" or "Tuya Smart" app.

2. Open the Alexa or Google Home app.

3. Enable the "Smart Life" or "Tuya Smart" skill/service.

4. Discover devices. Your thermostat should appear.

5. You can now use commands such as:

    - "Alexa, set [Thermostat Name] to 22 degrees."
    - "Hey Google, what is the temperature in [Thermostat Name]?"
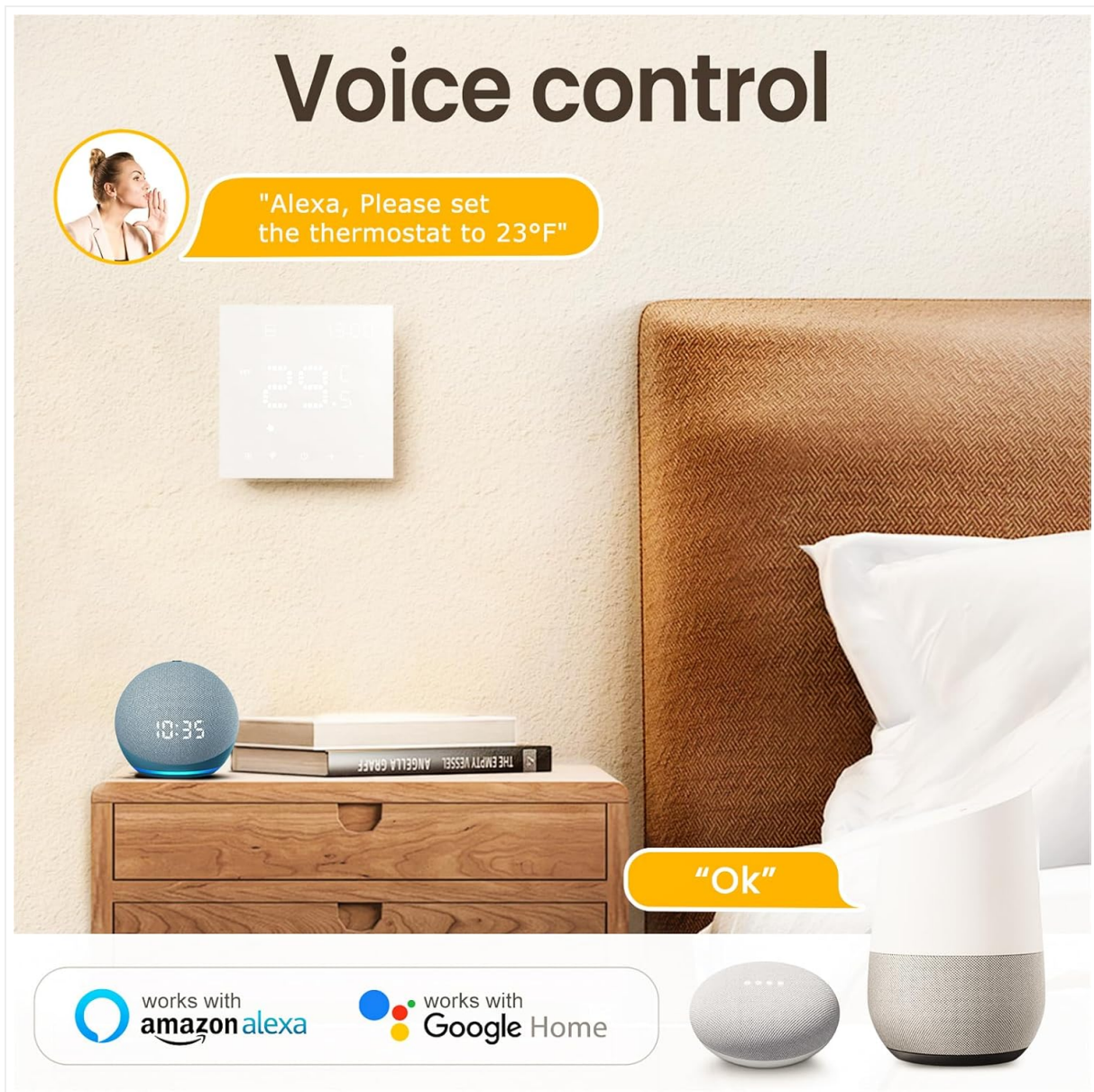   - "Alexa, turn on [Thermostat Name]."

Figure 4.1: An illustration demonstrating the voice control capability of the thermostat, showing interaction with Amazon Alexa and Google Home devices.

4.4 Temperature Calibration

If there is a discrepancy between the actual room temperature and the temperature displayed on the thermostat, you can calibrate it. This feature is typically found in the advanced settings menu on the thermostat or within the app. Adjust the offset value until the displayed temperature matches a reliable external thermometer.

4.5 Screen Brightness Adjustment

The screen brightness can be adjusted to your preference, from a percentage value to completely off, to avoid disturbance, especially during sleep. This setting is accessible through the thermostat's menu or the app.
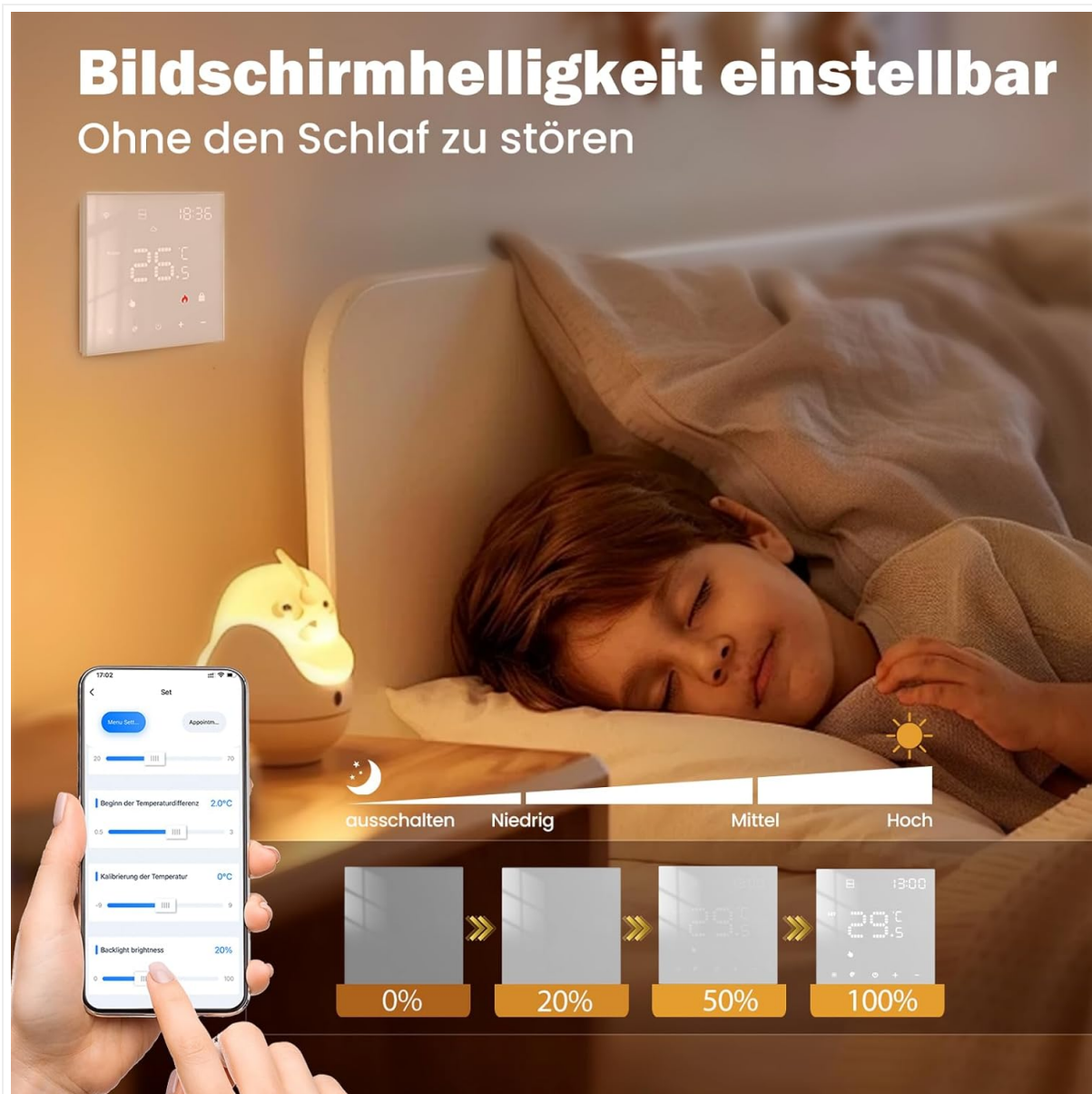

Figure 4.2: A visual representation of the screen brightness adjustment feature, showing different brightness levels from 0% to 100% and its impact on visibility.

4.6 Child Lock and Antifreeze

- **Child Lock:** Activate this feature to prevent accidental changes to the thermostat settings. It can be enabled/disabled via the app or by a specific button combination on the thermostat.
- **Antifreeze Function:** This feature automatically activates heating if the room temperature drops below a preset minimum (e.g., 5°C) to prevent pipes from freezing.

Figure 4.3: An image illustrating the precise temperature control capabilities of the thermostat, including minimum temperature setting, temperature hysteresis, and upper/lower temperature limits.

5. MAINTENANCE

The AVATTO Smart WiFi Thermostat requires minimal maintenance.

- **Cleaning:** Wipe the screen and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray liquids directly onto the device.
- **Avoid Obstructions:** Ensure the thermostat is not covered by furniture, curtains, or other objects that could obstruct its temperature sensor.

6. TROUBLESHOOTING

If you encounter issues with your thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Thermostat not connecting to WiFi.	Incorrect WiFi password, 5GHz network, weak signal, or thermostat not in pairing mode.	- Ensure you are using a 2.4GHz WiFi network. - Verify the WiFi password. - Move the thermostat closer to the WiFi router. - Re-enter pairing mode by holding the WiFi button for 5-10 seconds.
Heating not turning on/off as expected.	Incorrect wiring, thermostat in manual mode with wrong setting, programming schedule conflict, or faulty actuator/boiler.	- Check wiring connections (refer to Section 3.2). - Verify the operating mode (Manual/Programmable) and set temperature. - Review your programming schedule for conflicts. - Ensure the connected actuator or boiler is functioning correctly.
Displayed temperature is inaccurate.	Thermostat sensor offset, or external factors affecting sensor reading.	- Use the temperature calibration feature (refer to Section 4.4) to adjust the offset. - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources.
App shows incorrect temperature or status.	App synchronization issue, outdated app version, or server communication problem.	- Refresh the app or close and reopen it. - Ensure your app is updated to the latest version. - Check your internet connection. - If the issue persists, try re-pairing the thermostat with the app.

7. SPECIFICATIONS

Brand	AVATTO
Model	WT400S-3A-B
Color	White
Dimensions	10.5 x 9.8 x 6.7 cm
Weight	200 grams

Wattage	1200 watts
Voltage	240 Volts (AC)
Material	Plastic
Special Features	Amazon Alexa, Smart Life App, Google Assistant, Child Protection, Programmable
Controller Type	Amazon Alexa, Google Assistant, Button

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact your retailer. You may also visit the official AVATTO website for further assistance and updated information.