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BEOK CONTROLS TDS21WIFI-EP-WW

Beok WiFi Room Thermostat Instruction Manual

Model: TDS21WIFI-EP-WW | Brand: BEOK CONTROLS

1. Introduction

Thank you for choosing the Beok WiFi Room Thermostat. This programmable thermostat is designed for electric underfloor heating systems, offering precise temperature control and smart home integration. It is compatible with Google Home and Amazon Alexa for convenient voice control. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your device.

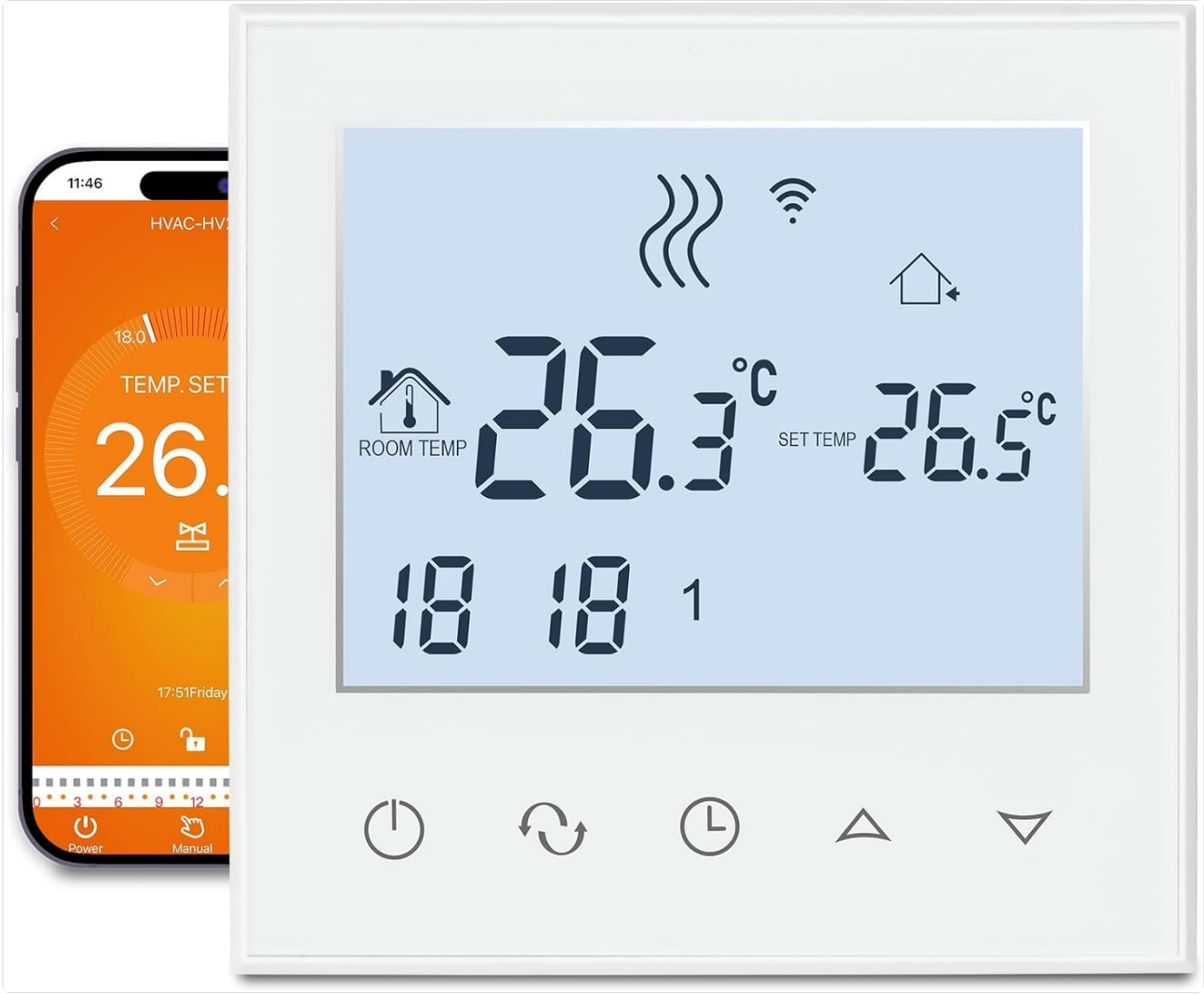

Figure 1.1: Beok WiFi Room Thermostat and its accompanying mobile application.

2. Safety Information

- Installation must be performed by a qualified electrician in accordance with local wiring regulations.
- Always disconnect power at the main circuit breaker before installing or servicing the thermostat.
- Do not expose the thermostat to water or excessive humidity.
- Ensure the voltage and current ratings of your heating system are compatible with the thermostat (200-240V 50/60 Hz, Max 16A).
- Keep the device out of reach of children to prevent accidental changes to settings.
- Do not attempt to disassemble or repair the thermostat yourself. Contact qualified personnel for service.

3. Product Overview

3.1 Package Contents

- 1 x Beok WiFi Room Thermostat
- 1 x 3m External Temperature Sensor (10K 3950)
- 2 x Mounting Screws
- 1 x Product Manual

3.2 Thermostat Display and Buttons

The thermostat features a clear LCD screen and intuitive touch buttons for easy operation. Refer to the diagram below for an explanation of each element.

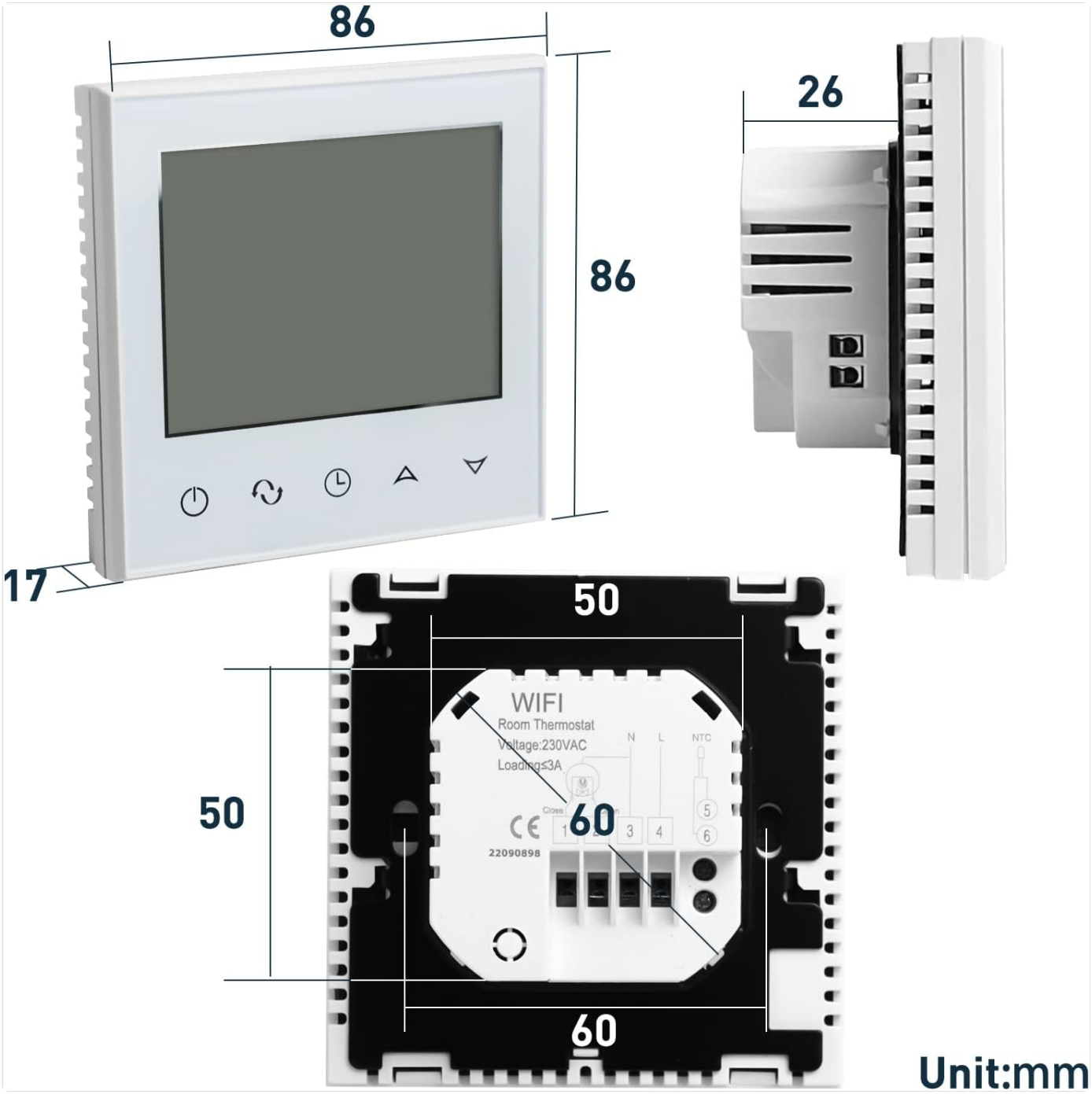

Figure 3.1: Thermostat Display and Button Functions.

1. **Power On/Off:** Toggles the thermostat power.
2. **Menu:** Accesses programming and advanced settings.
3. **Time Setting:** Adjusts current time and date.
4. **Up:** Increases temperature or navigates menu options.
5. **Down:** Decreases temperature or navigates menu options.
6. **Room Temp:** Displays current room temperature.
7. **Set Temp:** Displays the desired temperature setting.
8. **Heating On:** Indicates when the heating system is active.
9. **Wi-Fi Function:** Shows Wi-Fi connection status.
10. **Child-lock:** Indicates if child lock is active.
11. **Anti-freezing:** Indicates if frost protection is active.
12. **Manual Mode:** Indicates manual temperature control.
13. **Period/Week:** Displays current programming period and day of the week.

4. Installation

4.1 Wiring Diagram

The Beok TDS21WIFI-EP thermostat is designed for electric underfloor heating. Follow the wiring diagram carefully. Ensure all connections are secure and correctly insulated.

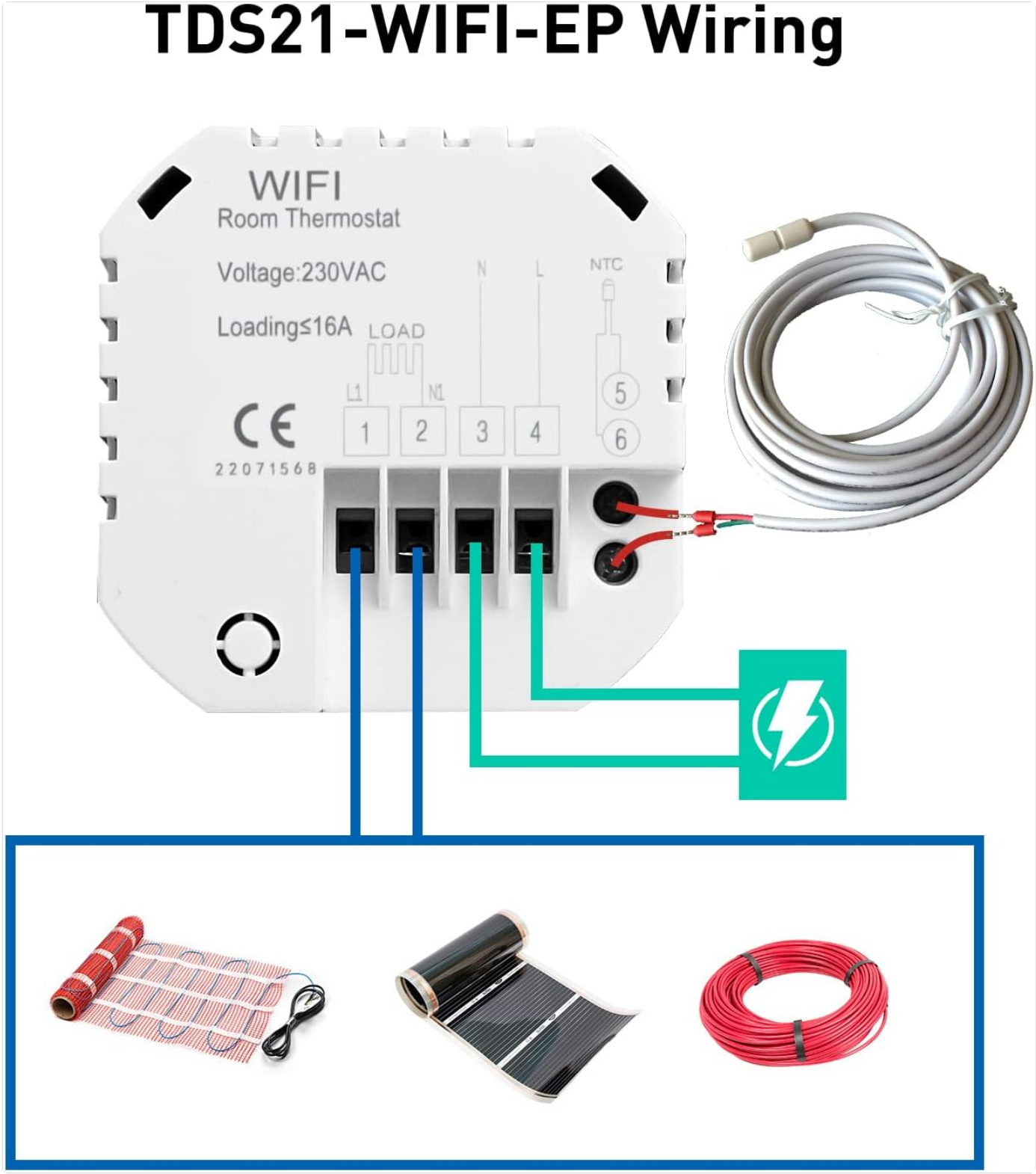

Figure 4.1: TDS21-WIFI-EP Wiring Diagram. Connect Live (L) and Neutral (N) power inputs, Load (L1, N1) outputs to the heating element, and the NTC external sensor to terminals 5 and 6.

4.2 Physical Installation

The thermostat is designed for standard wall box installation. Ensure the wall box dimensions are compatible with the thermostat's base.

Figure 4.2: Thermostat Dimensions (Unit: mm). Front panel is 86x86mm, depth 42mm. Mounting holes are 60mm apart.

1. Turn off the main power supply to the heating circuit.
2. Separate the front panel of the thermostat from its backplate.
3. Connect the wires according to the wiring diagram (Figure 4.1) to the terminals on the backplate.
4. Mount the backplate securely to the wall box using the provided screws.
5. Carefully attach the front panel back onto the mounted backplate.
6. Restore power to the heating circuit.

5. Setup

5.1 Initial Power-On and Time Setting

Upon first power-on, the thermostat will display the current temperature. You may need to set the correct time and day.

- Press the **Time Setting** button (clock icon) to enter time adjustment mode.
- Use the **Up** and **Down** arrows to adjust hours, minutes, and day of the week.

- Press the **Time Setting** button again to confirm each setting and move to the next.

5.2 Wi-Fi Connection and App Control

To enable remote control and smart home integration, connect your thermostat to your home Wi-Fi network via the mobile application.

Figure 5.1: The thermostat features Wi-Fi connectivity and is controlled via a mobile app, offering a 3.4-inch LCD touch screen and weekly programming capabilities.

1. Download the "Beok Home" or "SpeakerAssistant" app from Google Play Store or Apple App Store.
2. Register an account and log in.
3. On the thermostat, press and hold the **Menu** button for 3-5 seconds until the Wi-Fi icon starts flashing rapidly. This indicates pairing mode.
4. In the app, tap "Add Device" or the "+" icon and follow the on-screen instructions to connect your thermostat to your Wi-Fi network.
5. Once connected, the Wi-Fi icon on the thermostat will become solid.

6. Operating Instructions

6.1 Manual Mode Operation

In manual mode, you can set a desired temperature that the thermostat will maintain until changed.

- If in programmable mode, press the **Menu** button to switch to manual mode (indicated by a hand icon).
- Use the **Up** and **Down** arrows to adjust the target temperature. The thermostat will automatically adjust heating to reach and maintain this temperature.

6.2 Weekly Programmable Mode

The thermostat supports 5+2, 6+1, and 7-day programming, allowing you to set different temperature schedules for various times of the day and week.

Period		Period Icon	Defaulted Time	Defaulted Temp.
Week	1		6:00	20℃
	2		8:00	15℃
	3		11:30	15℃
	4		12:30	15℃
	5		17:30	22℃
	6		22:00	15℃
Weekend	1		8:00	22℃
	2		23:00	15℃

Figure 6.1: Example of Weekly Programmable Schedule (5+2/6+1/7 days).

1. Press the **Menu** button repeatedly until you enter the programming mode (indicated by a calendar icon or specific period icons).
2. Use the **Up** and **Down** arrows to select the day group (e.g., Mon-Fri, Sat-Sun) and period (e.g., Period 1, Period 2).
3. Press the **Time Setting** button to confirm your selection and then use **Up** and **Down** to adjust the start time and target temperature for each period.
4. Repeat for all desired periods. The thermostat will automatically save settings.

6.3 Voice Control (Alexa & Google Home)

Once connected to Wi-Fi, you can integrate your thermostat with Amazon Alexa or Google Home for voice commands.

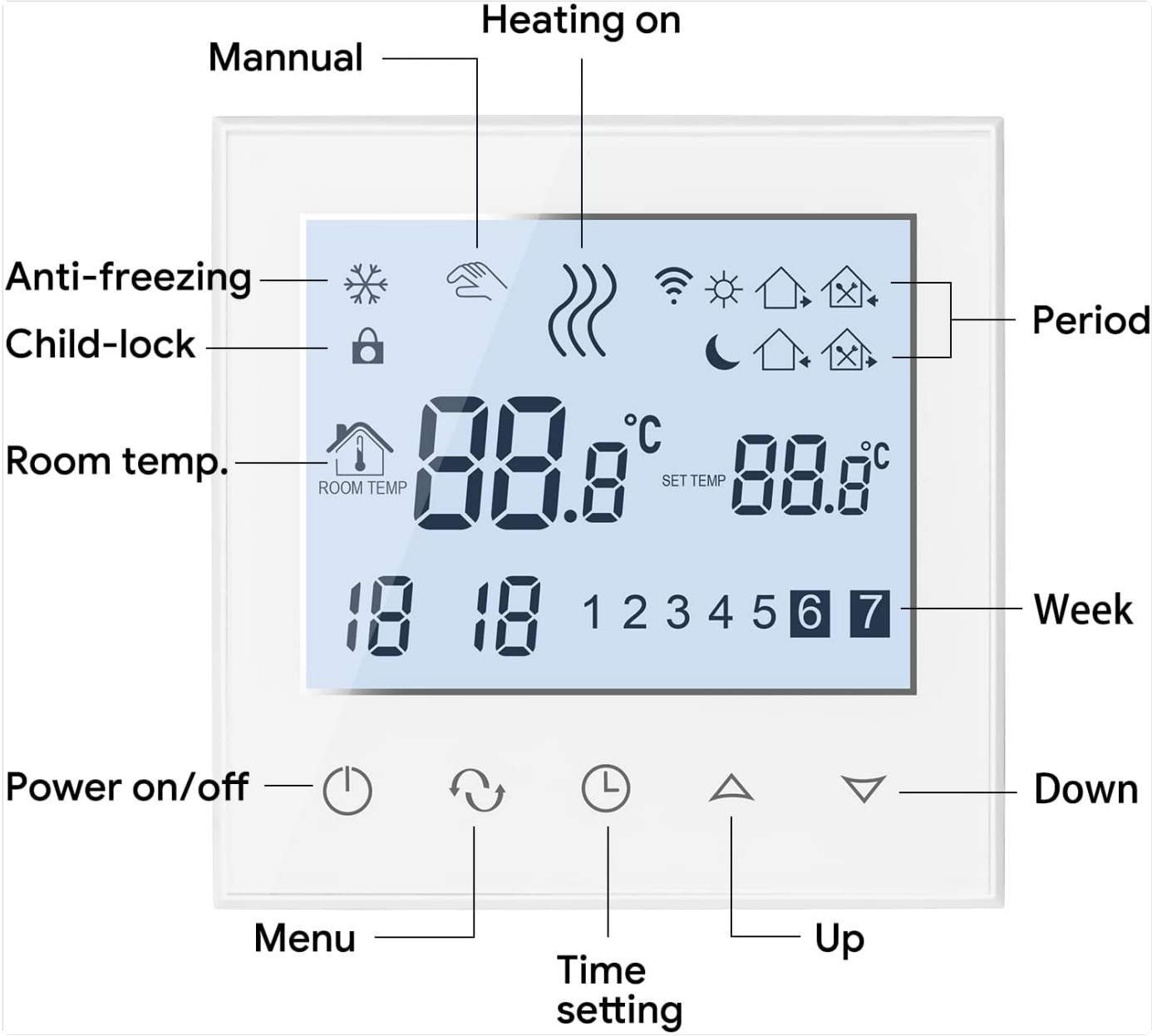

Figure 6.2: Voice Control compatibility with Google Home and Amazon Alexa.

1. Ensure your Alexa or Google Home device is set up and connected to the same Wi-Fi network as your thermostat.
2. Open the Alexa app or Google Home app.
3. Enable the "HVAC-H" skill (for Alexa) or link the "SpeakerAssistant" service (for Google Home).
4. Log in with your Beok Home/SpeakerAssistant app account credentials.
5. Discover devices. Your thermostat should appear.
6. You can now use voice commands such as:
    - "Alexa, set [Thermostat Name] to 22 degrees."
    - "Hey Google, what's the temperature in [Room Name]?"
    - "Alexa, turn on [Thermostat Name]."

7. Advanced Functions

The thermostat offers several advanced features for enhanced control and safety.

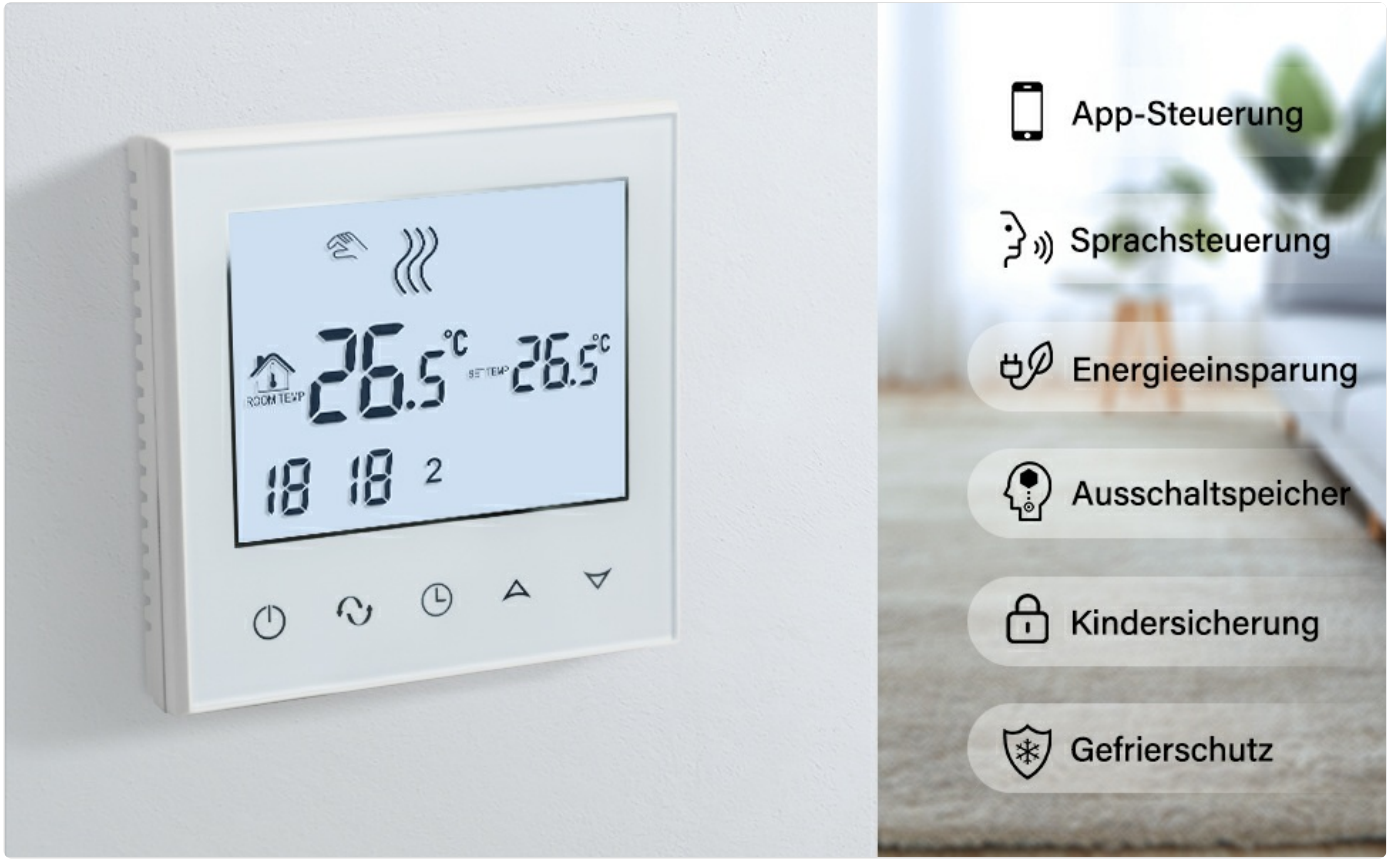

Figure 7.1: Key Advanced Features of the Beok Thermostat.

- **Child Lock:** Prevents unauthorized changes to settings. Activate/deactivate through the app or by pressing and holding specific buttons (refer to app settings or advanced menu on device).
- **Power-off Memory:** Retains all settings (time, program, etc.) even after a power outage.
- **Frost Protection:** Automatically activates heating if the room temperature drops below a set minimum (e.g., 5°C) to prevent pipes from freezing. This feature is typically enabled by default.
- **Temperature Compensation:** Allows for calibration of the displayed room temperature if it differs from an external thermometer. This can be adjusted in the advanced settings menu.
- **Temperature Hysteresis:** Defines the temperature differential before the heating turns on or off. For example, if set to 1°C and target is 20°C, heating turns on at 19°C and off at 21°C. Adjustable in advanced settings.
- **Factory Settings Restoration:** Resets all settings to their default values. Use with caution, as all custom programs will be lost. This option is usually found in the advanced settings menu.

8. Maintenance

- Clean the thermostat's screen and casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the air vents on the thermostat are not blocked to allow for accurate temperature sensing.
- Regularly check the wiring connections for any signs of wear or looseness.
- Keep the thermostat away from direct sunlight or heat sources that could affect temperature readings.

9. Troubleshooting

Problem	Possible Cause	Solution
Thermostat not powering on.	No power supply; incorrect wiring.	Check main circuit breaker. Verify wiring connections according to Section 4.1.

Problem	Possible Cause	Solution
Wi-Fi icon not solid/cannot connect to app.	Incorrect Wi-Fi password; thermostat not in pairing mode; weak Wi-Fi signal; app issues.	Ensure correct Wi-Fi password. Put thermostat in pairing mode (Section 5.2). Move router closer or use Wi-Fi extender. Restart app/phone.
Heating not turning on/off as expected.	Incorrect temperature setting; wrong mode (manual vs. programmable); sensor issue; child lock active.	Verify target temperature. Check operating mode. Ensure external sensor is connected. Deactivate child lock.
Inaccurate temperature reading.	Thermostat exposed to drafts/direct sunlight; internal sensor affected by heat from wiring; external sensor faulty.	Relocate thermostat if possible. Use temperature compensation feature (Section 7). Check external sensor connection.

10. Specifications

Brand	BEOK CONTROLS
Model Number	TDS21WIFI-EP-WW
Color	White
Product Dimensions	8.6 x 8.6 x 4.2 cm
Item Weight	185 g
Voltage	230 Volt (200-240V 50/60 Hz)
Max Current	16A
Material	1Stk_WIFI (likely plastic/electronic components)
Special Features	WIFI Remote Control, Alexa and Google Voice Assistant Compatibility
Controller Type	Amazon Alexa, Google Assistant
Specific Uses	Electric Underfloor Heating
First Available	September 28, 2017

11. Warranty and Support

BEOK CONTROLS products are manufactured to high-quality standards. For warranty information and technical support, please refer to the contact details provided on the product packaging or visit the official BEOK CONTROLS website. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, you may also contact the seller through the platform where you purchased the product.

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