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Ymiko HC-020-ZB-GB

Ymiko Smart Thermostat User Manual

Model: HC-020-ZB-GB (Electric Heating)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Ymiko Smart Thermostat, model HC-020-ZB-GB. This thermostat is designed for electric heating systems, offering precise temperature control, programmable scheduling, and smart home integration for enhanced comfort and energy efficiency.



Image 1.1: Front view of the Ymiko Smart Thermostat, displaying its large LCD screen and touch buttons.

About The Thermostat

A smart thermostat give you a comfortable life. Keep your home at just the right temperature with the touchscreen 7-day programmable thermostat. You can control the temperature wherever you are. The thermostat can controlled at your setting time. The advanced design provides maximum comfort by sensing whether your home needs heating or cooling. The good life comes from wisdom.



In order to show the effect, the product has been enlarged



Image 1.2: The Ymiko Smart Thermostat installed on a wall, with a woman relaxing on a couch, illustrating its seamless integration into a modern home environment.

2. SETUP AND INSTALLATION

2.1 Pre-installation Notes

- The Tuya ZigBee smart thermostat requires a gateway hub that supports the ZigBee protocol to function. It cannot operate without a ZigBee intelligent gateway.
- This specific model (HC-020-ZB-GB) is designed for electric heating systems. Ensure your heating system is compatible.
- An external sensor may be required for optimal temperature detection. If the APP prompts 'E2', an external sensor is recommended for more accurate data, though the thermostat will still function without it.
- Always read this user manual carefully before installing and operating the thermostat.

2.2 Physical Installation

The thermostat is designed for easy setup and fits both 86mm and 60mm standard electrical boxes (not included). Professional installation is recommended to ensure safety and proper functionality.

1. **Power Off:** Before any installation, ensure the main power supply to your heating system is turned off at the circuit breaker.
2. **Mounting:** Secure the thermostat base to the wall using the provided screws, ensuring it is level.
3. **Wiring:** Connect the electrical wires from your heating system to the appropriate terminals on the thermostat base. Refer to the wiring diagram provided with your specific product packaging for detailed instructions. Ensure all connections are secure.
4. **Attach Thermostat:** Carefully attach the thermostat display unit to the mounted base.
5. **Power On:** Restore power to your heating system at the circuit breaker.

DIMENSION

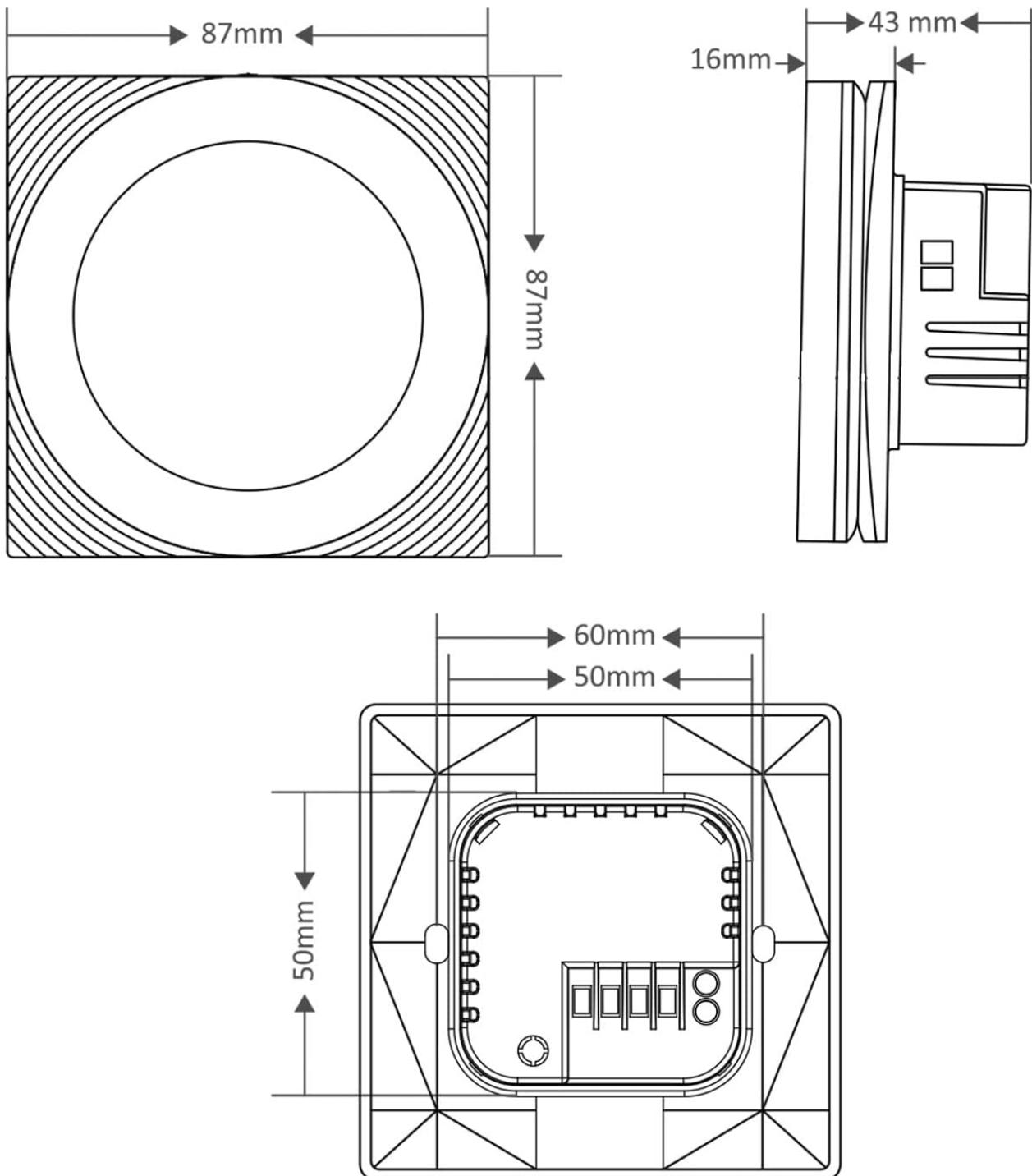


Image 2.1: Technical diagram showing the dimensions of the Ymiko Smart Thermostat, including front, side, and rear views with measurements in millimeters.

3. OPERATION

3.1 Display and Touch Button Functions

The thermostat features a large backlit LCD screen for clear visibility and capacitive touch buttons for intuitive control. The display shows current temperature, set temperature, time, day of the week, operating mode, and other relevant indicators.

HOME SCREEN QUICK REFERENCE

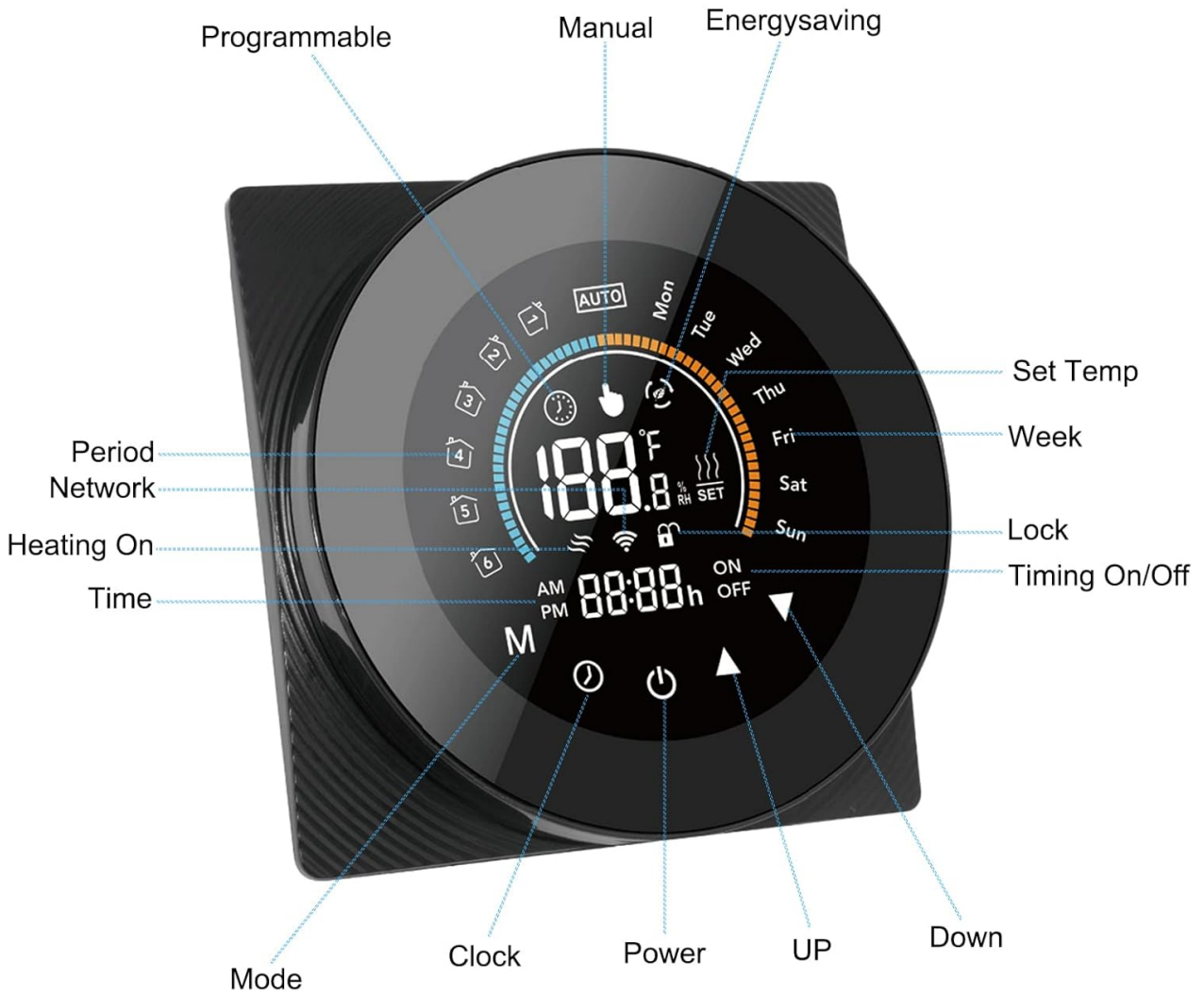


Image 3.1: A detailed diagram illustrating the various indicators and touch button functions on the thermostat's home screen, including Programmable, Manual, Energy Saving, Set Temp, Week, Lock, Timing On/Off, Mode, Clock, Power, Up, and Down controls.

The full touch screen operation ensures sensitive keys are easy to operate, even in dim environments. The circular interface design enhances its aesthetic appeal.

Touch Screen Operation

Full touch screen operation, sensitive keys easy to operate.
Circular interface design is more aesthetic.
Smart Thermostat brings you a comfortable life.



Image 3.2: A user interacting with the touch screen of the Ymiko Smart Thermostat, demonstrating its ease of use and responsive interface.

3.2 Programmable Schedule

The thermostat allows you to tailor heating schedules for workdays and weekends, ensuring optimal comfort while reducing unnecessary energy consumption. You can set specific temperatures for different times of the day across a 7-day period.

Programmable Schedule

Fully intelligent programming, free to set the time you want to set. No matter when and where, there will be a comfortable temperature in the home.



Image 3.3: A family leaving their home, symbolizing the convenience of the programmable schedule feature, which allows the thermostat to adjust temperatures automatically based on daily routines.

3.3 Smart Integration and Remote Control

The Ymiko Smart Thermostat works effortlessly with smart home platforms like Alexa and Google Assistant, allowing for convenient voice control. Additionally, by connecting your thermostat to the Tuya Smart App via your ZigBee gateway, you can control your heating system remotely from anywhere.

Fit your lifestyle

Touchscreen Smart 7-Day Programmable Thermostat

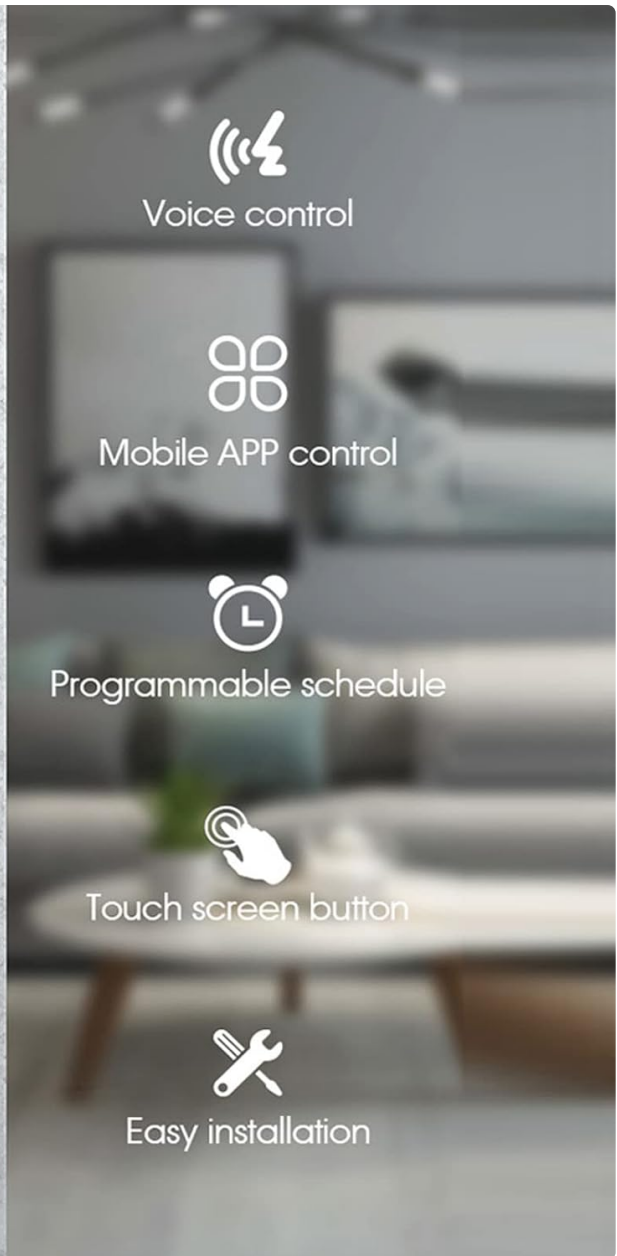
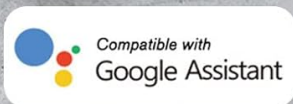


Image 3.4: An overview of the thermostat's key features, including voice control, mobile app control, programmable schedule, touch screen buttons, and easy installation, along with compatibility logos for Google Assistant, Alexa, Zigbee, and Tuya Smart.

Remote Control

Connect your wi-fi thermostat to Tuya smart App, which lets you control your thermostat device from anywhere, in one connected platform.

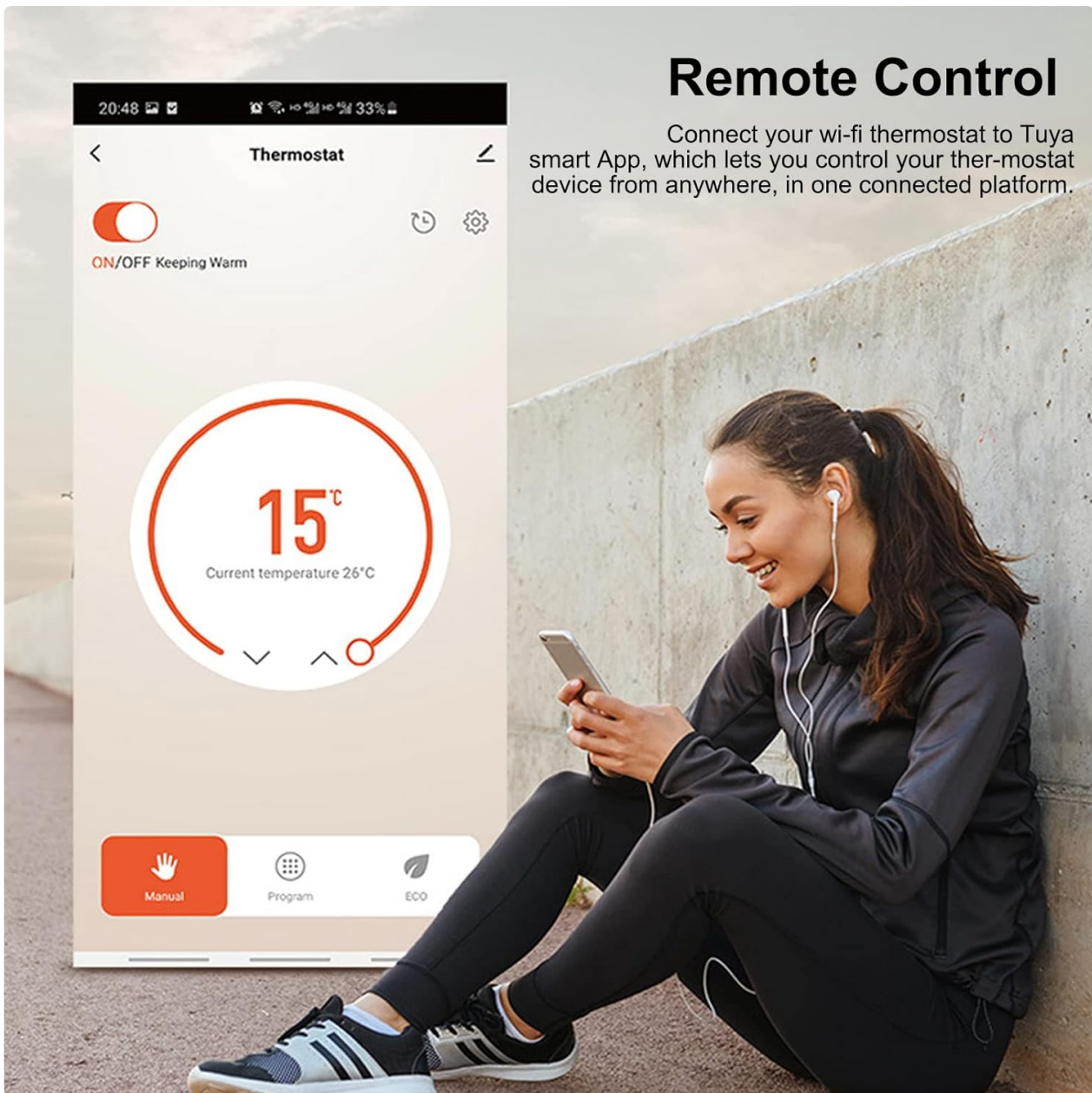


Image 3.5: A user remotely controlling the thermostat via a mobile application, demonstrating the convenience of adjusting settings from any location.

4. CARE AND MAINTENANCE

To ensure the longevity and optimal performance of your Ymiko Smart Thermostat, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the screen and body of the thermostat with a soft, dry, or slightly damp cloth. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the surface and internal components.
- **Environment:** Keep the thermostat away from direct sunlight, extreme temperatures, and high humidity. Ensure it is not exposed to water or other liquids.
- **Avoid Obstructions:** Do not place furniture or other objects directly in front of or around the thermostat, as this can interfere with accurate temperature readings.
- **Software Updates:** Periodically check the Tuya Smart App for any available firmware updates for your thermostat to ensure you have the latest features and security enhancements.

5. TROUBLESHOOTING

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

- **Thermostat Not Responding:**

- Check if the main power supply to the thermostat is on.
- Ensure the thermostat is securely attached to its base.
- Perform a soft reset by turning off the power at the circuit breaker for a few minutes, then turning it back on.

- **Temperature Readings Seem Inaccurate:**

- Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources (e.g., lamps, appliances) that could affect its sensor.
- If the APP displays 'E2', consider installing an external sensor for more precise temperature detection.

- **Cannot Connect to App/ZigBee Gateway:**

- Verify that your ZigBee gateway is powered on and connected to your home network.
- Ensure the thermostat is within range of the ZigBee gateway.
- Follow the pairing instructions in the Tuya Smart App to re-establish the connection.

- **Heating System Not Turning On/Off:**

- Check the thermostat's mode setting (e.g., Heat, Auto).
- Verify that the set temperature is above the current room temperature for heating to activate.
- Inspect the wiring connections at the thermostat base and your heating system for any loose connections.

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

6. TECHNICAL SPECIFICATIONS

Below are the detailed specifications for the Ymiko Smart Thermostat (Model HC-020-ZB-GB):



Power Supply: 95 ~ 240V AC, 50 ~ 60HZ

Current Load: 5A (water heating/water boiler/gas boiler), 16A (electric heating)

Sensor: NTC

Accuracy: +0.5 °C or +1 °F

Set Temp. Range: 5~ 35 °C

Display Temp. Range: 5~ 99 °C

Ambient Temp.: 0~ 45 °C

Ambient Humidity: 5 ~ 95 % RH (Non Condensing)

Storage Temp.: -5~45 °C

Power Consumption: <1.5W

Timing Error: < 1%

Shell Material: PC +ABS (flame retardant)

Protection Class: IP 20

Buttons: Capacitive Touch Buttons

Image 6.1: A list of the Ymiko Smart Thermostat's technical specifications, including power supply, current load, sensor type, accuracy, temperature ranges, and material.

Specification	Value
Model	HC-020-ZB-GB
Type	Thermostat for Electric Heating
Power Supply	95-240V AC, 50/60HZ
Current Load	16A (electric heating)
Sensor	NTC
Accuracy	±0.5°C or ±1°F
Set Temp. Range	5~35°C
Display Temp. Range	5~99°C
Ambient Temperature	0~45°C
Ambient Humidity	5~95 % RH (Non Condensing)
Storage Temperature	-5~45°C
Power Consumption	<1.5W
Timing Error	<1%
Shell Material	PC + ABS (flame retardant)
Protection Class	IP 20
Buttons	Capacitive Touch Buttons

7. WARRANTY AND CUSTOMER SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Ymiko website. If you require technical assistance or have questions not covered in this manual, please contact Ymiko customer support through their official channels. When contacting support, please have your product model (HC-020-ZB-GB) and purchase details ready.