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› [Irfora Smart Tuya WiFi Thermostat User Manual](#)

Irfora B-2-T

Irfora Smart Tuya WiFi Thermostat User Manual

Model: **B-2-T** | Brand: **Irfora**

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Irfora Smart Tuya WiFi Thermostat. This intelligent wall thermostat is designed for electric heating systems, offering precise temperature control, programmable settings, and smart connectivity for enhanced comfort and energy efficiency. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

PRODUCT FEATURES

- Programming Function:** Features a 5+2/6+1 programming function, allowing up to 6 different temperature settings for weekdays and additional settings for the weekend, optimizing comfort and energy use.
- Manual & Automatic Modes:** Offers both manual and automatic modes for flexible temperature control.
- Smart Voice Control:** Compatible with Amazon Alexa and Google Home for convenient voice commands.
- Multi-Function LCD Display:** Easy-to-read LCD display for temperature adjustments. Includes child lock and low temperature protection functions.
- Embedded Installation:** Designed for seamless embedded installation into standard 86 boxes.
- NTC Temperature Sensor:** Equipped with an NTC temperature sensor for accurate temperature readings and precise control.
- Remote Control via App:** Control your thermostat remotely using the Tuya mobile application.

PACKAGE CONTENTS

- 1 x Irfora Smart Tuya WiFi Thermostat
- 1 x User Manual

SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the device or personal injury:

- Electrical Safety:** Installation should only be performed by a qualified electrician. Ensure power is disconnected at the main circuit breaker before any wiring work.

- **Voltage:** This thermostat operates on AC 100-250V. Do not connect to voltages outside this range.
- **Environment:** Do not expose the thermostat to water, excessive humidity, or extreme temperatures outside its operating range (0°C - 50°C).
- **Child Safety:** Utilize the child lock function to prevent accidental changes to settings.

INSTALLATION GUIDE

Embedded Installation Steps:

1. **Prepare Wiring:** Ensure all power is off. Connect the power box to the wiring diagram correctly.
2. **Remove Panel:** Gently push the panel display part upwards to remove it from the base.
3. **Fix Base Plate:** Securely fix the thermostat's mounting plate to the standard 86-type wall box.
4. **Attach Panel:** Align the panel's buckles with the fixing plate and push the panel downwards until it clicks into place.

The thermostat is suitable for both electric floor heating and water floor heating systems.



Figure 1: Thermostat Dimensions (86mm x 86mm x 40mm)

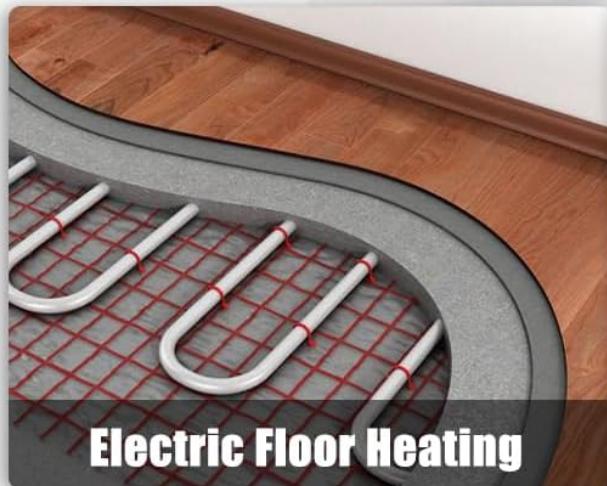
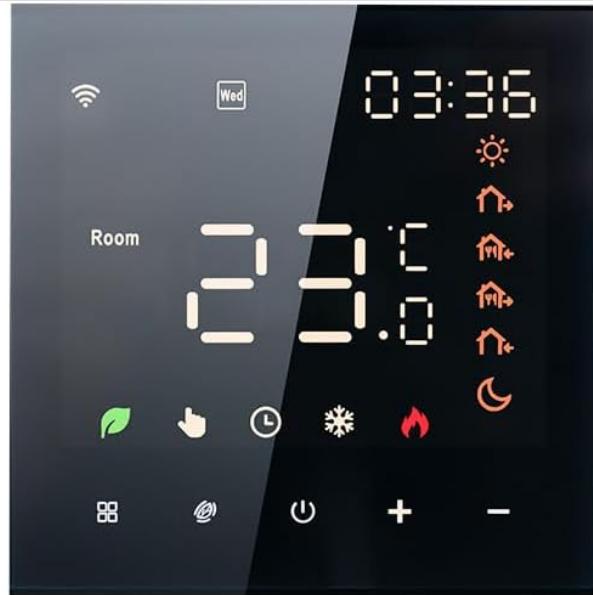


Figure 2: Compatibility with Electric and Water Floor Heating Systems

OPERATION

Basic Controls and Display:



Figure 3: Thermostat Display and Mobile App Interface

The thermostat features a clear LCD touchscreen display. Use the touch controls on the device to adjust settings directly.

Manual and Automatic Modes:

Manual & Automatic Modes



Figure 4: Thermostat in a Room, Highlighting Mode Selection

Switch between manual mode for immediate temperature adjustments and automatic mode to follow your programmed schedule. Refer to the on-screen icons for current mode indication.

Programming Function (5+2/6+1):

5+2/6+1 Programmable

| Key | Event | Symbol | Time | + - | Default value | + - |
|-----|----------|--------|------|-------|---------------|-----------------|
| ☒ | Week day | 01 | ☀ | 06:00 | 20°C | Set temperature |
| | | 02 | 🏠 | 08:00 | 16°C | |
| | | 03 | 🏠 | 11:30 | 20°C | |
| | | 04 | 🏠 | 12:30 | 16°C | |
| | | 05 | 🏠 | 17:00 | 20°C | |
| | | 06 | 🌙 | 22:00 | 16°C | |
| | Weekend | 01 | ☀ | 08:00 | 20°C | |
| | | 02 | 🌙 | 23:00 | 16°C | |



Figure 5: Programmable Schedule Example

The thermostat supports flexible programming. You can set up to 6 distinct time and temperature periods for weekdays (Monday-Friday) and separate settings for Saturday and Sunday (5+2 mode) or Saturday only, and Sunday only (6+1 mode). Access the programming menu via the touchscreen or the mobile app to customize your schedule.

Smart Voice Control:

Smart Voice Control



Figure 6: Voice Control Integration with Smart Speakers

Integrate your thermostat with Amazon Alexa or Google Home for convenient voice control. Follow the instructions in your smart home assistant's app to link the Tuya Smart skill/action and control your thermostat with simple voice commands.

Smart Remote Control (Tuya App):

Smart Remote Control



Figure 7: Tuya Smart App for Remote Control

Download the Tuya Smart app from your mobile app store. Follow the in-app instructions to add your thermostat. Once connected, you can control the temperature, change modes, and adjust schedules from anywhere with an internet connection.



Figure 8: Remote Control in a Home Environment

Sharing Devices:



Figure 9: Device Sharing Feature in Tuya App

The Tuya Smart app allows you to share control of your thermostat with family members or other authorized users. This enables multiple individuals to manage the thermostat settings from their own devices.

MAINTENANCE

To ensure the longevity and optimal performance of your thermostat, follow these maintenance guidelines:

- **Cleaning:** Wipe the display and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the surface.
- **Avoid Obstructions:** Ensure that the thermostat's vents (if any) are not blocked by furniture or curtains, as this can affect temperature readings.
- **Regular Checks:** Periodically check the wiring connections to ensure they are secure, especially after initial installation.

TROUBLESHOOTING

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

| Problem | Possible Cause | Solution |
|---------------------------------------|---|--|
| Thermostat not powering on. | No power supply; incorrect wiring. | Check circuit breaker. Verify wiring connections according to the installation guide. Consult a qualified electrician if unsure. |
| Temperature reading seems inaccurate. | Sensor obstruction; thermostat placed near heat source/draft. | Ensure no objects are blocking the thermostat. Relocate if it's in direct sunlight or near a vent/appliance. |
| Cannot connect to Wi-Fi. | Incorrect Wi-Fi password; router too far; 5GHz network. | Double-check Wi-Fi password. Ensure thermostat is within router range. Confirm your Wi-Fi is 2.4GHz, as 5GHz is not supported. |
| Voice control not working. | Not linked to smart assistant; incorrect commands. | Ensure the Tuya Smart skill/action is enabled and linked in your Amazon Alexa or Google Home app. Use correct voice commands. |
| Thermostat not responding to touch. | Child lock enabled; temporary software glitch. | Check if child lock is active and disable it. Try restarting the thermostat by cycling its power. |

TECHNICAL SPECIFICATIONS

| Parameter | Value |
|---------------------------------|--|
| Product Material | ABS |
| Product Size | 86 x 86 x 40mm (3.38 x 3.38 x 1.57 inches) |
| Power Supply | AC 100-250V 50/60Hz |
| Max. Load (Water Heating) | 3A/AC250V |
| Max. Load (Electric Heating) | 16A/AC250V |
| Room Temperature Range | 5 - 70°C |
| Temperature Display Accuracy | ±0.5°C |
| Working Environment Temperature | 0°C - 50°C |
| Storage Environment Temperature | -10°C - 60°C |
| WiFi Frequency | 2.400-2.483GHz |
| WiFi Communication Protocol | IP/TCP, MQTT |
| Control Type | Touch |
| Control Method | Voice, App |
| Backlight | Yes |

| Parameter | Value |
|-------------------|-------|
| Country of Origin | China |

WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not provided in the product details. Please refer to the product packaging or the seller's website for specific warranty terms and contact information for technical support.

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