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› Irfora W-2 Smart Tuya WiFi Thermostat User Manual

## Irfora W-2

# Irfora W-2 Smart Tuya WiFi Thermostat User Manual

Model: W-2

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## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, setup, operation, and maintenance of your Irfora W-2 Smart Tuya WiFi Thermostat. Please read this manual carefully before installation and use to ensure proper function and safety. This thermostat is designed for controlling electric underfloor heating systems.

## 2. PRODUCT OVERVIEW

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The Irfora W-2 Smart Tuya WiFi Thermostat is a digital programmable temperature controller featuring an LCD display and touch buttons. It offers smart control for your heating system, allowing for both manual and automatic operation, and can be managed remotely via the Tuya Smart APP.

### Key Features:

- **6+1 Programming Function:** Customize temperature settings for 6 weekdays and 1 weekend day, ensuring comfort and energy efficiency.
- **NTC Temperature Sensor:** Provides accurate temperature readings for precise control within a 5-90°C range.
- **LCD Display with Touch Buttons:** Easy temperature adjustment and clear display of room temperature and operating status.
- **Manual & Automatic Modes:** Switch between manual control or programmed schedules.
- **Embedded Installation:** Designed for seamless integration into your existing heating system.
- **WiFi Connectivity:** Remote control via the "Tuya Smart" APP.



Figure 2.1: Front view of the Irfora W-2 Smart Tuya WiFi Thermostat.

# LCD Color Screen

Display room temperature and running status at a glance



Figure 2.2: Detailed view of the thermostat's LCD display and touch button functions. Labels indicate Time, Week, WiFi, Room Temperature, Set Temperature, Heat Indicator, Manual Mode, Programming Mode, Mode Button, Clock Button, Power Button, Up Button, and Down Button.

## 3. SPECIFICATIONS

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Parameter	Value
Product Material	ABS
Product Size	86 x 86 x 40mm (3.38 x 3.38 x 1.57in)
Panel Thickness	14mm (0.55in)
Version	WiFi
Temperature Sensor	NTC
Temperature Accuracy	±1°C
Power Consumption	<1W
Voltage	AC 230V 50/60Hz
Load Current	16A (Electric Heating)
Temperature Setting Range	5-90°C
Control Method	Touch Key, App
Backlight Color	White, Blue (Optional)
Heating Type	Electric Heating



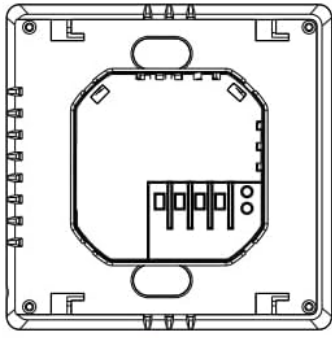
Figure 3.1: Dimensions of the thermostat and rear view showing wiring terminals.

## 4. INSTALLATION

**Important:** Installation should be performed by a qualified electrician to ensure safety and compliance with local electrical codes. Disconnect power at the circuit breaker before beginning installation.

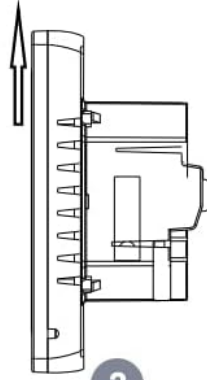
1. **Connect the Power Box:** Connect the power wires to the thermostat's terminals according to the provided wiring diagram. Ensure correct polarity and secure connections.
2. **Remove the Panel:** Gently push the panel display part upwards to detach it from the base plate.
3. **Fix the Thermostat Plate:** Secure the thermostat's base plate to a standard 86-type wall box using screws.
4. **Align and Push Down the Panel:** Align the panel buckle with the fixed plate and push the panel down until it clicks into place.

# Installation method



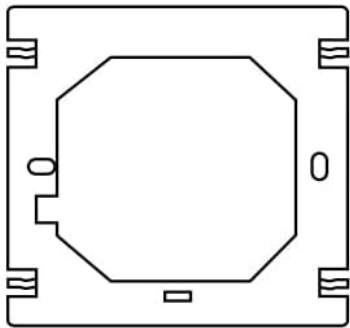
1

Connect the power box according to the wiring diagram



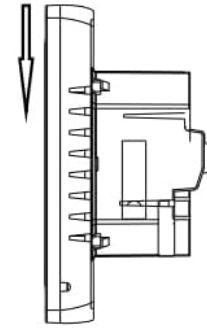
2

Push the panel display part upwards to remove the panel



3

Fix the thermostat plate to the 86 box



4

Align the panel buckle with the fixed plate and push the panel down

Figure 4.1: Visual guide for the embedded installation process.

The thermostat is suitable for both electric floor heating and water floor heating systems, as shown in Figure 4.2.



Figure 4.2: The thermostat is compatible with both electric floor heating (left) and water floor heating (right) systems.

## 5. SETUP: WiFi CONNECTION AND APP CONTROL

To utilize the smart features of your thermostat, connect it to your home WiFi network and the Tuya Smart APP.

1. **Download the App:** Scan the QR code (if provided in the product packaging) or search for "Tuya Smart" in your mobile device's app store (iOS or Android) and install the application.
2. **Enable WiFi and Bluetooth:** Ensure WiFi and Bluetooth are enabled on your mobile device.
3. **Add Device:** Open the Tuya Smart APP. The app should automatically detect nearby devices. If not, manually select "Add Device" and follow the on-screen prompts to find your thermostat.
4. **Enter WiFi Password:** When prompted, enter your home WiFi network password.
5. **Connection Confirmation:** Once the connection is successful, the thermostat will appear in your Tuya Smart APP, allowing for remote control and programming.



Figure 5.1: The Tuya Smart APP interface for remote control of the thermostat. The app allows for sharing control with family members by creating product local groups.

## 6. OPERATING INSTRUCTIONS

### 6.1 Manual & Automatic Operation

The thermostat supports both manual temperature setting and automatic operation based on programmed schedules.

- **Manual Mode:** Allows you to set a desired temperature directly. The thermostat will maintain this temperature until changed or switched to automatic mode.
- **Automatic Mode:** The thermostat follows the pre-set 6+1 programming schedule.

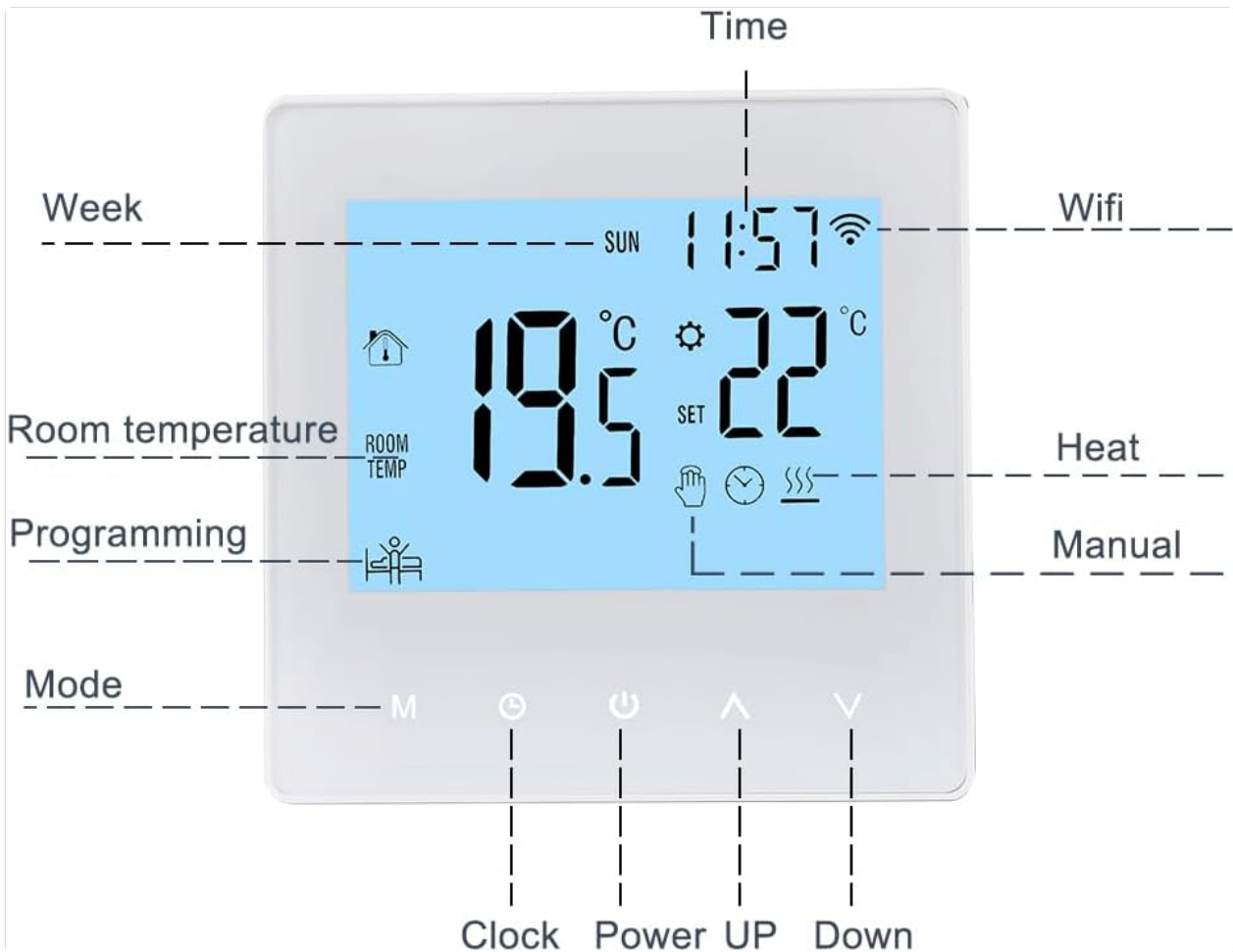


Figure 6.1: The thermostat display indicating options for manual and automatic operation.

## 6.2 6+1 Programming Function

The 6+1 programming function allows you to set up to six distinct temperature periods for weekdays (Monday-Friday) and one period for the weekend (Saturday-Sunday). This optimizes comfort and energy savings. Refer to the programming table below for an example of how to set your schedule. Specific steps for setting the program are typically found in the detailed manual provided with the product or within the Tuya Smart APP interface.

# Programming Digital Thermostat














KEY	OPTION	ICON	TIME	ADJUST	DEFAULT	ADJUST	
	workday	1		06:00	 	20°C	 
		2		08:00		15°C	
		3		11:30		15°C	
		4		12:30		15°C	
		5		17:00		22°C	
		6		22:00		15°C	
	Holiday	1		08:00	22°C		
		2		23:00	15°C		



Figure 6.2: Example programming table for the digital thermostat, showing time and temperature settings for workday and holiday periods.

## 7. MAINTENANCE

To ensure optimal performance and longevity of your thermostat:

- **Cleaning:** Wipe the display and casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Avoid Obstructions:** Ensure the thermostat's sensor area is not obstructed by furniture, curtains, or other objects that could affect temperature readings.
- **Power Cycles:** If the thermostat becomes unresponsive, try turning off the power at the circuit breaker for a few minutes, then restore power.

## 8. TROUBLESHOOTING

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

- **Thermostat not powering on:** Check the circuit breaker and ensure all wiring connections are secure.
- **Heating not working:** Verify the thermostat is in heating mode and the set temperature is above the

current room temperature. Check for error codes on the display.

- **WiFi connection issues:** Ensure your router is working, the WiFi password is correct, and the thermostat is within range of your WiFi network. Try restarting your router and the thermostat.
- **Inaccurate temperature readings:** Ensure the NTC sensor is properly installed and not obstructed.

For persistent issues, contact customer support.

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation included with your product or contact Ifora customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, visit the manufacturer's website or contact their support channels.