

Irfora ME82 3A Water Heating

# Irfora ME82 3A Water Heating Smart Thermostat User Manual

Model: ME82 3A Water Heating | Brand: Irfora

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Irfora ME82 3A Water Heating Smart Thermostat. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.



**Image 1.1: Irfora ME82 3A Smart Thermostat.** This image displays the front view of the white Irfora ME82 3A Smart Thermostat, showing its digital LCD screen with current temperature, time, and various operational icons.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **Programmable Functionality:** Supports 5+2 or 6+1 programming, allowing up to 6 distinct temperature settings per day for weekdays and an additional setting for weekends.
- **Manual and Automatic Modes:** Offers flexibility to set desired temperatures manually or follow programmed schedules.
- **Multifunction LCD Display:** Clear display for temperature settings, time, and operational status.
- **Safety Features:** Includes child safety lock and overheat protection.
- **Integrated Installation:** Designed for embedded wall installation.
- **NTC Temperature Sensor:** Provides accurate temperature readings for precise control.
- **Wide Voltage and Temperature Range:** Operates on AC 100-250V with a temperature setting range of 5-70°C.
- **Wi-Fi Connectivity:** (Note: Wi-Fi functionality is available on compatible models. Refer to your specific product variant for confirmation.)

## 2.2 Application

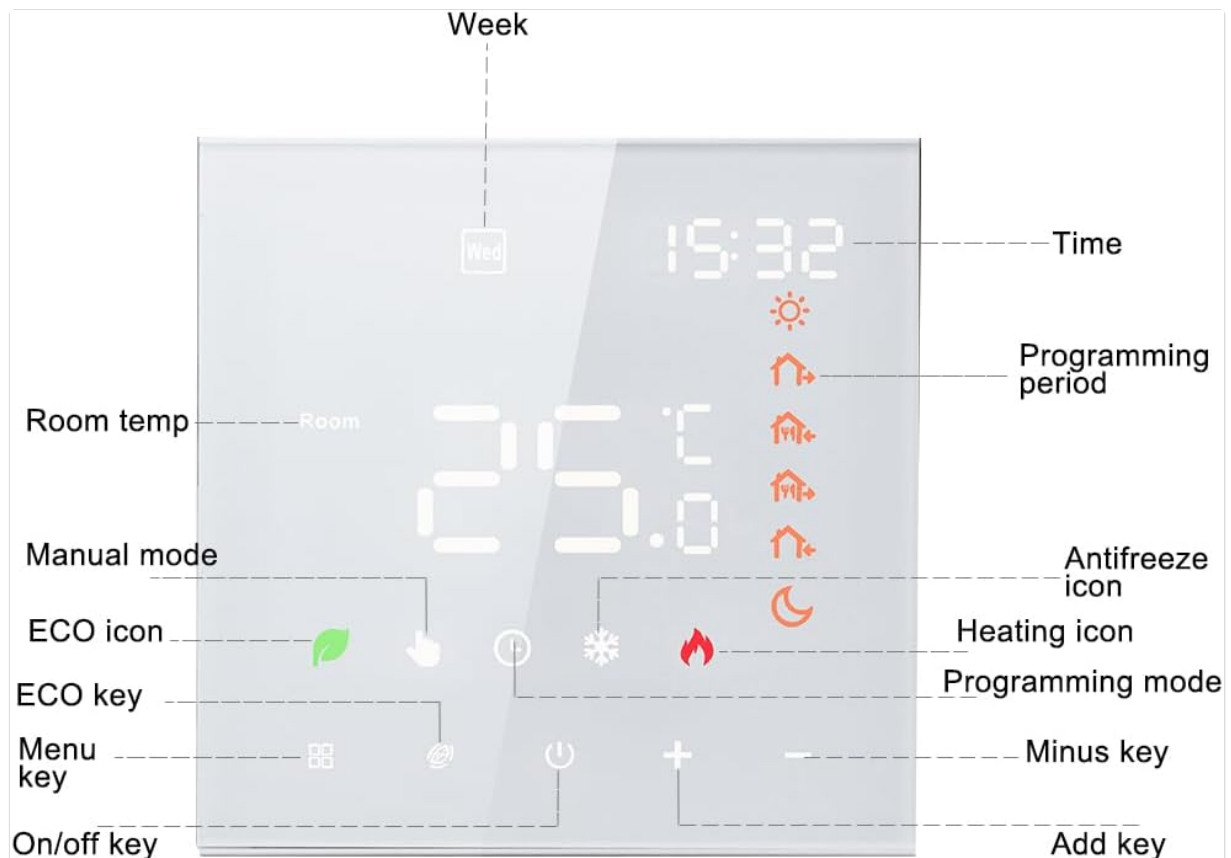
This thermostat is designed for controlling water heating systems, such as water floor heating.



**Image 2.1: Thermostat Application.** This image shows examples of heating systems compatible with similar thermostats, including electric floor heating (left) and water floor heating (right), demonstrating the thermostat's role in controlling such systems.

## 2.3 Display and Button Layout

Familiarize yourself with the thermostat's display and control buttons as shown below:



**Image 2.2: Thermostat Display and Button Layout.** This image illustrates the various indicators and touch buttons on the thermostat's screen. Key elements include the current room temperature, time, day of the week, programming period icons (sun, house, moon), antifreeze icon, heating icon, manual mode indicator, ECO icon, ECO key, Menu key, On/Off key, Programming mode key, Minus key, and Add key.

The display shows the current room temperature, time, and active mode. The touch buttons allow for easy adjustment and setting changes.

### 3. SPECIFICATIONS

| Feature                           | Specification                               |
|-----------------------------------|---|
| Product Material                  | ABS   |
| Product Dimensions                | 86 x 86 x 40 mm (3.38 x 3.38 x 1.57 inches) |
| Power Supply                      | AC 100-250 V, 50/60 Hz                      |
| Maximum Load (Water Heating)      | 3A/AC250V                                   |
| Ambient Temperature Range         | 5 - 70 °C                                   |
| Temperature Display Accuracy      | ± 0.5 °C                                    |
| Operating Environment Temperature | 0 °C - 50 °C                                |
| Storage Temperature               | -10 °C to 60 °C                             |
| Wi-Fi Frequency                   | 2.400-2.483 GHz                             |
| Wi-Fi Communication Protocol      | IP/TCP, MQTT                                |
| Model Number                      | TYHDEH47126W-3                              |

| Feature                 | Specification                 |
|-------------------------|-------------------------------|
| Item Weight             | 190 g                         |
| Controller Type         | Touch Screen                  |
| Connectivity Technology | Wi-Fi (for compatible models) |



**Image 3.1: Thermostat Dimensions.** This image shows the front and side views of the thermostat, indicating its dimensions: 86mm (3.38 inches) width, 86mm (3.38 inches) height, and 40mm (1.57 inches) depth, with a visible panel thickness of 14mm (0.55 inches).

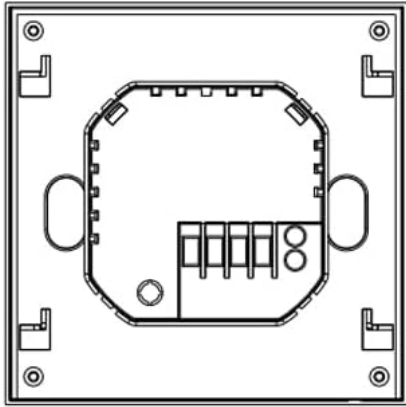
## 4. SETUP AND INSTALLATION

**Important Safety Notice:** Installation should only be performed by a qualified electrician to prevent electric shock or damage to the thermostat and heating system. Ensure the main power supply is turned off before beginning installation.

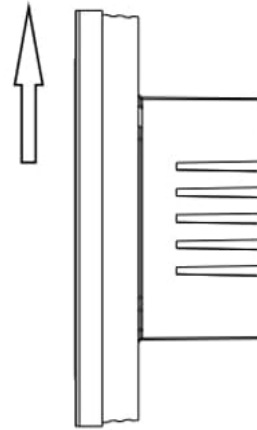
### 4.1 Installation Method

The thermostat is designed for embedded installation. Follow these steps:

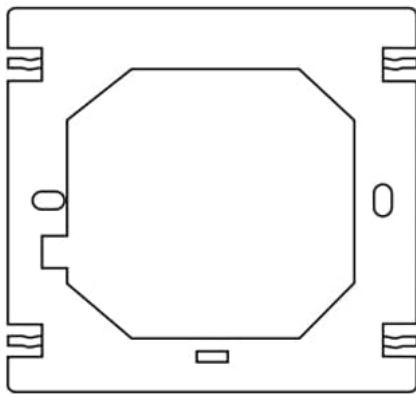
# Installation method



1. Connect the power box to the wiring diagram well.



2. Push the panel display part up and remove the panel.



3. Fix the thermostat fixing plate to the 86 boxes.



4. Align the panel buckle with the fixing plate and push the panel down.

**Image 4.1: Installation Diagram.** This diagram illustrates the four steps for installing the thermostat: 1. Connect the power box to the wiring diagram. 2. Push the panel display part up and remove the panel. 3. Fix the thermostat fixing plate to the 86 boxes. 4. Align the panel buckle with the fixing plate and push the panel down.

1. **Connect Wiring:** Connect the power box according to the provided wiring diagram. Ensure all connections are secure and correct for your water heating system.
2. **Remove Display Panel:** Gently push the display panel upwards to detach it from the base unit.
3. **Secure Fixing Plate:** Mount the thermostat's fixing plate into a standard 86-type wall box.
4. **Attach Display Panel:** Align the display panel with the fixing plate's buckles and push it down firmly until it clicks into place.

After installation, restore power and proceed with initial setup and configuration.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off and Basic Temperature Adjustment

- **Power On/Off:** Press the **On/Off key** (power symbol) to turn the thermostat on or off.
- **Adjust Temperature:** In manual mode, use the **Add key (+)** and **Minus key (-)** to increase or decrease the desired temperature.

### 5.2 Operating Modes

The thermostat supports both Manual and Automatic (Programmed) modes.



**Image 5.1: Manual & Automatic Modes.** This image shows the thermostat installed on a wall, highlighting its ability to operate in both manual and automatic modes, allowing users to either set the temperature directly or follow a pre-programmed schedule.

- **Manual Mode:** In this mode, the thermostat maintains the temperature you set manually using the + and - keys. This setting overrides any programmed schedule until a new mode is selected.
- **Automatic (Programmed) Mode:** The thermostat follows the pre-set schedule for temperature adjustments throughout the day and week.

To switch between modes, refer to the specific instructions in your thermostat's full manual or use the **Programming mode key** (clock symbol) to cycle through options.

### 5.3 Programming Schedule (5+2 / 6+1)

The thermostat allows for flexible programming to optimize comfort and energy efficiency. You can set up to six distinct temperature periods for weekdays and two for weekends (5+2 programming) or six for Monday-Saturday and two for Sunday (6+1 programming).



# 5+2/6+1 Programmable

| Key | Event    |    | Symbol | Time  | + -      | Default value | + -             |
|-----|----------|----|--------|-------|----------|---------------|-----------------|
| ⌘   | Week day | 01 | ☀️     | 06:00 | Set time | 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          |                 |



**Image 5.2: 5+2/6+1 Programmable Schedule Example.** This table illustrates a typical 5+2 programming schedule. It shows six events for weekdays (Key 01-06) with corresponding times and default temperature values (e.g., 06:00 at 20°C, 08:00 at 16°C, 11:30 at 20°C, 12:30 at 16°C, 17:00 at 20°C, 22:00 at 16°C). For the weekend, two events are shown (Key 01-02) with times and default temperatures (e.g., 08:00 at 20°C, 23:00 at 16°C). The table also indicates how to set time and temperature using the '+' and '-' keys.

To enter programming mode:

1. Press and hold the **Menu key** (square icon) or **Programming mode key** (clock symbol) until the programming interface appears.
2. Use the **Menu key** to navigate between programming periods (e.g., weekday morning, weekday evening, weekend).
3. Use the **Add key** (+) and **Minus key** (-) to adjust the start time and desired temperature for each period.
4. Confirm settings by pressing the **Menu key** or waiting for the thermostat to exit programming mode automatically.

Refer to the detailed programming steps in the full product manual for specific button sequences and advanced options.

## 5.4 Child Safety Lock



To prevent unauthorized changes to settings, the thermostat includes a child safety lock feature. Consult your full manual for instructions on how to activate and deactivate this function.

## 6. MAINTENANCE

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The Irfora ME82 3A Smart Thermostat requires minimal maintenance.

- **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 and internal components.
- **Avoid Obstructions:** Ensure that the thermostat's temperature sensor (usually located at the bottom or inside the unit) is not obstructed by furniture, curtains, or other objects, as this can affect temperature accuracy.
- **Regular Checks:** Periodically check the wiring connections for any signs of wear or looseness. This should only be done by a qualified professional with the power supply disconnected.

## 7. TROUBLESHOOTING

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If you encounter issues with your thermostat, consider the following common troubleshooting steps:

- **Thermostat not powering on:**
  - Check the main power supply to your heating system and the thermostat.
  - Ensure all wiring connections are secure and correctly installed.
- **Incorrect temperature readings:**
  - Verify that the thermostat's sensor is not obstructed or exposed to direct drafts or heat sources.
  - Ensure the thermostat is installed in an appropriate location, away from windows, doors, or direct sunlight.
- **Heating system not responding:**
  - Check if the thermostat is in the correct operating mode (Manual or Automatic).
  - Ensure the set temperature is higher than the current room temperature if you expect heating to activate.
  - Verify that the heating system itself (boiler, pump) is operational.
  - Check wiring connections to the heating system.
- **Programming issues:**
  - Review the programming steps in Section 5.3 or the full manual to ensure correct entry.
  - Confirm the current time and day are set accurately on the thermostat.
- **Wi-Fi connectivity problems (for Wi-Fi enabled models):**
  - Ensure your Wi-Fi router is powered on and functioning correctly.
  - Check that the thermostat is within range of your Wi-Fi network.
  - Verify Wi-Fi settings and credentials entered into the thermostat or companion app.
  - Restart your Wi-Fi router and the thermostat.

If these steps do not resolve the issue, please consult the full product manual or contact Irfora customer support for further assistance.

## 8. WARRANTY AND SUPPORT

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Your Irfora ME82 3A Water Heating Smart Thermostat is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Irfora website.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact your retailer or the Irfora customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.