

# Welcome to Warmup

**4iE Smart Thermostat operating guide**

See reverse for installation guide

# Warmup

tue 1 jan | 22:48 | 72.5 floor

70.5 °F  
▲  
air

71.0 until 23:30



40.5

## Introduction

The **4iE** default screen is the home screen. Pressing the temperature figure in the centre of the screen allows you to override it. Pressing the menu button allows you to start programming and setting up the **4iE**. You'll often find a **help** button on pages with several options to give more information.

If you do not press any button for 1 minute, the **4iE** screen will dim and revert to the home screen. To wake the **4iE** just tap the screen or press **Wake**.

To turn the thermostat on or off, press the power button on the bottom of the device for 3 seconds.

## Getting Started

On initial power up the 4iE will ask you to connect to set up various aspects:

- Language
- Time
- Date
- Daylight Savings
- Heating type
- Temperature Display
- Theme
- Brightness
- Audio Feedback
- Floor type
- Heating control type
- Heating Program Schedule
- Energy Monitor settings

### Important!

Ensure you choose the correct **System Type**. Electric (underfloor), Hydronic (underfloor) or Conventional (central heating with radiators).

## Warmup

monday	—	—	—
tuesday	—	—	—
wednesday	—	—	—
thursday	—	—	—
friday	—	—	—
saturday	—	—	—
sunday	—	—	—
back	help	accept	

## Set your heating program

With your 4iE, you can choose to set a custom heating schedule, fixed temperature or a preset program designed for different rooms.

To adjust the program, you must highlight the days that you want to program by pressing them, then press **Program**. You can select multiple days in any combination, such as weekdays only, to program separate weekday and weekend temperatures. To do this, program all the weekdays at once and then program the weekend when you're finished.

The programming works by setting Comfort Periods of warm temperatures, shown with a green line. Any time not covered by a Comfort Period will use a lower Setback temperature to save energy. The default setback temperature is 16°C and you can change this once you've set up your program if needed.

You can add up to 5 Comfort Periods per day and when you've set what you want, just press **Done**. You'll see the summary of your program which you can edit by repeating the steps above, or just press **Accept** to set your program.

**Remember: The 4iE can also learn your schedule and program itself. To activate this, set it into Learning Mode.**

## Preset Programs

You can select a preset program schedule to get you started. You can edit the program whenever you like by following the steps in [Set Your Heating Program](#)

Below is a summary of the Preset Programs

	Bathroom		Kitchen		Bedroom		Living Room	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Mon-Fri	06:00	25	06:00	23	06:00	25		
	08:00	10	08:00	10	08:00	10		
	19:00	20	18:00	23	20:00	20	18:00	23
	23:00	15	22:00	10	23:00	10	21:30	10
Sat-Sun	07:00	25	07:00	23	06:00	25		
	11:00	18	11:00	18	08:00	10	08:00	23
	18:00	20	18:00	23	20:00	20	18:00	20
	23:00	15	22:00	10	23:00	10	20:00	10

## Holiday Mode

**Holiday Mode** allows you to override your schedule with a fixed temperature over a number of days. This helps you save energy when you know you'll be away for a while by setting a lower temperature. **Holiday Mode** can be found in the **Program** menu

Just set the start and end times of your holiday, or leave the end time as **Unspecified**, if you want **Holiday Mode** to run indefinitely. Then set the temperature you want when you're away.

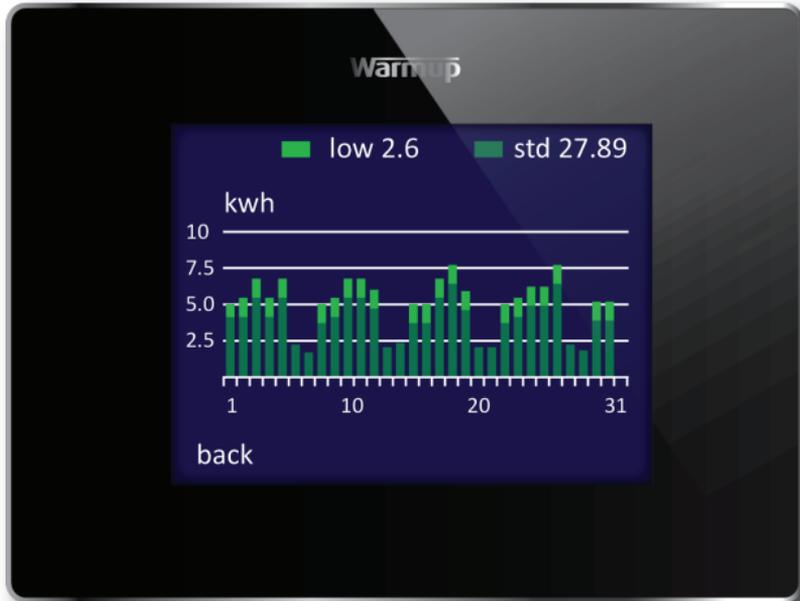
## Gradual Start

**Gradual Start** allows you to bring your floor up to temperature slowly, which is required for some floor finishes such as solid wood, and can also be found in the **Program** menu.

Enter the maximum temperature and the time required to reach that temperature to set **Gradual Start**. Different floors have different requirements so please contact your floor installer or supplier for advice on how to set **Gradual Start** correctly.

## Frost Protect

Select Frost Protect mode to set your heating to 5°C. This will help protect your home from frost and will run continuously until you raise the temperature again.



## Energy Monitor

The **4iE** learns how you use your system and how your house reacts to the heating and weather. It can give you an estimate of your energy usage and the running cost of your system.

You will need to enter the power of your system, and in some cases, the efficiency. If you do not know these, speak to your installer or go to [warmup.com](http://warmup.com) or [warmup.ca](http://warmup.ca) and use our online **Heat Requirement Calculator**.

You will also need to enter the cost of your energy, in order to calculate the running cost of your system. Press **Energy Settings**, and select if you have a single rate tariff or a standard/low energy tariff (where you have a discounted cost during part of the day). Enter your cost per KWH and relevant currency and, if required, the time the low energy tariff starts and stops and the discounted cost during that time.

When you've set up the **Energy Monitor** you can view the estimated usage or cost over a selected time period. If you have a standard/low energy tariff, the amount and cost of energy used during the standard period will be displayed in dark green and the amount used in the low period will be displayed in light green.

## Settings

The 4iE can be configured in different ways to suit you. The functions that can be accessed in the Settings menu include:

### Time

Set time	manually set time
Set date	manually set date
Daylight savings	set daylight savings

### Heating preferences

Temperature format	choose celsius or fahrenheit
Control air/floor	use air or floor sensor as main measurement
Adaptive learning	starts heating early so it's up to temperature at the right time

### Display/Audio

Background	change the screen background (upload your own on MyWarmup)
Home screen style	choose a theme for the main screen
Display brightness	change the screen brightness for normal use and standby
Lock	set a lock code and limits for when the lock is active
Audio Feedback	turn the 'click' sound on or off

## Advanced settings

These options can affect the performance of your thermostat and should only be modified by an experienced professional or under the instruction of Warmup Technical Support

## Heater settings

**Heater limits** Set the temperature limits for your floor type. **User Defined** lets you set custom limits

**Regulator** Regulator mode controls the heating in 10 minute cycles. The number you enter is the number of minutes in every 10 minute cycle that the heating will be on. This mode will not use the floor or air sensors for measurement

**Fil Pilote** This is a feature specifically for France. You must also connect Fil Pilote to terminal 1

**Master/Relay** This allows one thermostat to control another

1. Choose which thermostat is Master and which is Relay
2. Use low voltage cable to connect terminal 6 of both thermostats
3. Use low voltage cable to connect terminal 7 of both thermostats (in addition to floor sensor cables on the Master thermostat)
4. Set Relay thermostat to Relay mode first, then set the Master thermostat to Master mode
5. Program the Master thermostat. The Relay thermostat will no longer use its sensors, it will follow the Master thermostat

**Gradual Start** Set the maximum temperature and time required to reach that temperature

**Probes** Set the specification of the probes. You can also choose to hide the error message if you do not want to connect a probe

**Probe application** Choose if the floor probe is being used as a Floor or Amb (ambient) sensor

**Offset** Set the offset of the sensors to improve accuracy

**Reset** This will restore all the factory default settings. You can also hold the button on the rear of the front module for 10 seconds to perform a system reset

## Electric Underfloor Installation

see numbering on diagram below

2. Connect to Power Supply (Live – MAX 240V)
3. Connect to Power Supply (Neutral – MAX 240V)
4. Connect to Warmup heater(s) (Neutral – MAX 3600W/ 15 Amps)
5. Connect to Warmup heater(s) (Live – MAX 3600W/15 Amps)
7. Connect to 1st wire of floor sensor (color not important)
8. Connect to 2nd wire of floor sensor (color not important)

## Central heating Installation

see numbering on diagram below

2. Connect to Power Supply (Live – MAX 240V)
3. Connect to Power Supply (Neutral – MAX 240V)
4. Connect to Boiler circuit (Neutral if present– MAX 3600W/ 15 Amps)
5. Connect to Boiler circuit (240V Switch Live – MAX 3600W/ 15 Amps)

**For extra low voltage or volt-free systems a contactor must be used. Contact Warmup for more details.**

**Connecting the 4iE directly to extra low voltage or volt-free boilers may cause damage to the boiler circuit.**

## Hydronic Underfloor Installation

see numbering on diagram below

2. Connect to Power Supply (Live – MAX 240V)
3. Connect to Power Supply (Neutral – MAX 240V)
4. Connect to wiring centre (Neutral if present – MAX 3600W/ 15 Amps)
5. Connect to wiring centre (Switch Live – MAX 3600W/ 15 Amps)
7. Connect to 1st wire of floor sensor (color not important)
8. Connect to 2nd wire of floor sensor (color not important)

## Special Installation

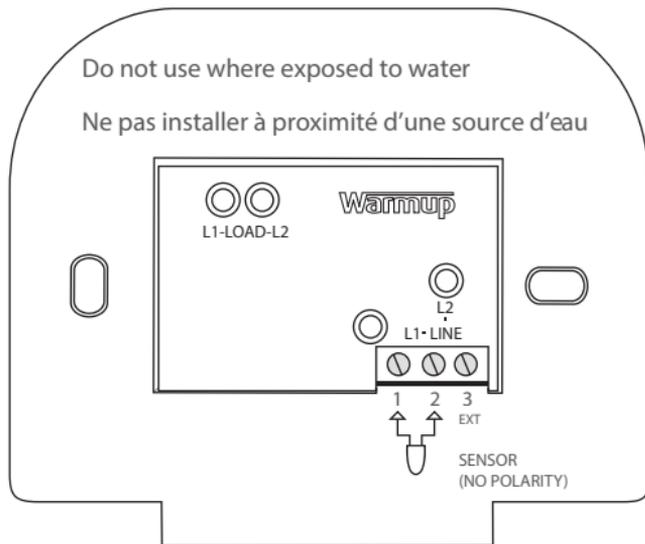
see numbering on diagram below

**Second sensor installation: (2nd floor probe or exterior probe)**

6. Connect to 1st wire of external sensor/ 2nd floor sensor
7. Connect to 2nd wire of external sensor/ 2nd floor sensor

**Master/Relay installation: (connecting 2 stats together)**

6. Connect to terminal 6 on other thermostat
7. Connect to terminal 7 on other thermostat



## Mounting Thermostat

1. Push excess wire back through the wall box and insert thermostat back module into wall box.
2. Put fixing screws through mounting holes and tighten.
3. Ensure that thermostat is straight before tightening completely.
4. Replace thermostat front housing;
  - i) align and sit front housing on to hinges,
  - ii) push lower half of front housing until a 'click' is heard.
5. Ensure front housing is securely fixed.
6. **IMPORTANT:** Tighten both retaining screws

## Powering Up

You can now power up the thermostat and begin the programming process. An easy to follow menu will guide you through the rest. If you want to turn on / off the thermostat and heating system then hold down the recessed button on the bottom of the stat for 3 seconds

## Error Messages

Your thermostat can give you two error indications:

1. "er1": This will occur if no floor sensor is detected
2. "er2": This will occur if the floor sensor has a short circuit

## Introduction

The 4iE thermostat is designed to aid in the comfort of your home by providing timed regulation of your heating system. The thermostat is designed to receive temperature input signals from the following sensors:

1. Air sensor located inside thermostat
2. Floor sensor installed in floor if using underfloor heating (see Warmup heater instructions for details)
3. Optional 2nd sensor

The thermostat is not a safety device. In order to avoid damaging your system the correct system and floor type should be selected during the thermostat programming process.

### Electrical Specification:

- Supply voltage: 110V-240V +/-15% at 60Hz
- Thermostat is not designed for use with intermittent power supply.
- Maximum Switch Load: 15A resistive
- Insulation Class : II
- Housing : IP30
- Standards: EN60730-1 & EN60730-2-9 standards

### WARNING – Important safety note

This product uses mains voltage electricity and work should only be carried out by a qualified electrician. You should always isolate the power supply before attempting to install or repair the 4iE thermostat. The thermostat should not be put into operation unless you are certain that the entire heating installation complies with current general safety requirements for electrical installations. Electrical installation to be in accordance with latest IEE Wiring Regulations and appropriate Statutory Regulations.

### Location

The thermostat should be installed inside a single gang electrical wall box that is at least 30mm deep. For optimal performance the thermostat should be located in an area with good ventilation. It should not be beside a drafty window/ door, in direct sunlight or above another heat generating device (e.g. radiator or TV).

The thermostat is designed for operation between 0°C and 55°C with relative humidity less than 80%.

## Installation

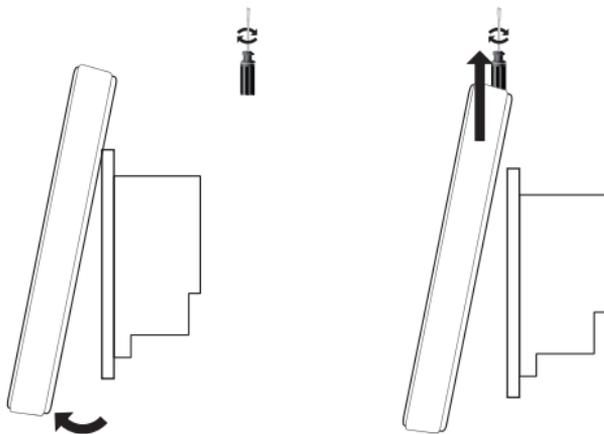
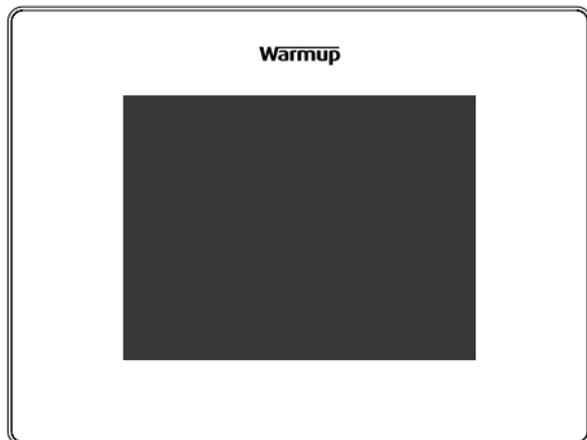
Separate the front housing of thermostat from wall module:

1. Unscrew both closing screws (bottom of stat) until they will not turn any further.
2. Release front housing by gripping lower half of outer frame and pulling outwards then upwards
3. Place front housing somewhere safe
4. Run all wires to the wall box. Check to ensure that you have included the following:
  - Power (Live and Neutral)
  - Heater (Live and Neutral or Switch Live only)
  - Floor sensor
  - Fil pilote (if necessary)
  - External/ 2nd floor Sensor (if necessary)
5. Pull wires through wall box and complete terminal wiring.

**IMPORTANT:** Ensure that multi stranded wires are fully inserted into the terminals and secured tightly. Any loose strands should be trimmed as they could cause a short-circuit.

If connecting more than two heaters, an electrical junction box will be required.

**NOTE:** Always ensure that the sensor cable is installed in a separate conduit to the power cables supplying the thermostat and heating system.



# Contact Us

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Visit our Online Technical Assistance website: [warmupedia.warmup.com](http://warmupedia.warmup.com)