# **4iE** Smart WiFi Thermostat

# Installation Manual



Warmup

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## **4iE** Smart WiFi Thermostat



**IMPORTANT INFORMATION:** Installation should only be carried out by a qualified and competent electrician. The 4iE requires a permanent 230V supply from a 30mA RCD protected circuit in accordance with the current edition of the BS7671 Wiring Regulations.

The 4iE and its power supply should be isolated from the mains supply throughout the installation process. Ensure that wires are fully inserted into the terminals and secured. Any free strands should be trimmed, as they could otherwise cause a short-circuit.

Electrical installation to be in accordance with latest edition of BS7671 Wiring Regulations

## **4iE** Step 1 - Install Back Plate

Before making any permanent fixtures Warmup recommends identifying your preferred location for the **4iE**. It should be located in an area with good ventilation. It should not be beside a window/door, in direct sunlight or above another heat generating device (e.g. radiator or TV).

Ensure the distance from your router to the 4iE is not too great. This will ensure the wireless connection is not subject to range or interference issues once installed.

**BATHROOM INSTALLATIONS:** When installing a 4iE within a bathroom it MUST be mounted outside of Zone 2 in accordance with the Wiring Regulations. If it is not possible to identify a suitable location outside of Zone 2 within the bathroom, then it is recommended that the 4iE is installed in the adjacent room and set to control the heating by floor temperature only. When installed in this way, it is not possible to directly control the heating based on the room air temperature, only the floor surface temperature.



## **4iE** Step 2 - Wiring Connections



Master/relay function: Used to control loads greater than 16A. Heaters will be split across two 4iE's, one being the master and the other being the relay (slave). Only one floor sensor is required, wired into terminals 7 & 8 of the Master 4iE.

Wiring Connections: Use low voltage electrical cables to link terminals 6 & 7 of the Master and Relay.

Thermostat Setup: Settings > Adv. settings > Heater setting > Ext output

NOTE: Set the relay 4iE to relay first

# 4iE

Step 2 - Wiring Connections





**Central Heating** 



For extra low voltage or volt-free systems a contactor must be used.

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



Isolate the thermostat from the mains supply throughout the installation process

## **4iE** Step 3 - Reattach 4iE Face



Reattach the 4iE face to the Back Plate and tighten both screws to secure. You may now restore power to the thermostat and begin setup.

## **4iE** Step 4 - Getting Started

Depending on who has installed your 4iE, you will have one of the following screens visible. If you have anything other than the screens below, please press the standby button on the underside of **Thermostat Face**.



#### Language

If you have this screen present, the **Thermostat** has not been connected to a WiFi network.

Please follow the on-screen instructions to connect it to WiFi.



# No WiFi

If you have this screen present, the **Thermostat** must be connected to a WiFi network.

> Settings
> Network



# No Server

If you have this screen present, the **Thermostat** is connected to a WiFi network and you can continue to device registration.

Registration can be completed via the MyHeating App or by visiting my.warmup. com.

## 4iE Step 5 - Download 'MyHeating' App

### App Download

The **MyHeating** App is available for iOS and Android devices via the App Store or Google Play. If you have not done so already, download the **MyHeating** App to your tablet or smartphone.

## Search 'MyHeating' by Warmup



### **Device Number**

When first registering and setting up your location on **MyHeating**, you will need the device number of the **Thermostat**. Your installer should have recorded it below, if not it can be found in the **Thermostat** menu:

> Settings > Advanced settings > About > Info



# 4iE

Step 6 - Registering your device

#### Registration

Once the App has been successfully downloaded and device number recorded you will need to set up your MyWarmup account. The **Thermostat** can be registered via the **MyHeating** App or by visiting **my.warmup.com**.

Below shows the menu structure to follow, when first registering with the **MyHeating** App or **my.warmup.com** 

#### Location

A location needs to be setup before a room can be configured and the 4iE device registered. Creating a location is user friendly and easy to follow, it is advised to have details of your current energy tariff and pricing to hand, as these will be required for the energy monitoring features.

#### Room

With a location now setup, the next step is to register a room. When creating a new room, the following options are available to select:

Location	(Select the newly setup location)
Room name	(Description, e.g. Upstairs Bathroom)
Room type	(Select the room type e.g. Bathroom)
Device number	(See page 9)
System type	(Select e.g. 'Electric Underfloor'
Floor type	(Select the floor type e.g. Tile/
Power source	(Energy source e.g. gas/electricity)
Sustem power	(Circo of boot courses of a 1000W)
system power	(Size of near source e.g. 1000W)

NOTE: Please ensure you enter the correct *System Type* and *Wattage* of heaters connected. If a relay has been installed please set *System Type* as *Electric* + *Relay.* 



\*Floor temperature will not be displayed when the 4iE is set to central heating mode

Once setup has been completed the thermostat will display the home screen. If you do not press any button for 1 minute the 4iE screen will dim and go into standby. To wake the 4iE just tap the screen or press the lock icon.

Press the button on the bottom of the device to put the thermostat in/out of standby mode. Hold the button for 3 seconds to turn the heating off.

The icons at the bottom of the screen are your WarmApps. These can be set up on my.warmup.com to show things like traffic and weather alerts.

### **Custom Program**

Setting a Custom Program allows you to set comfort temperatures at set times throughout the day.

1	set custom program select preset program back	set fixed temperature	2 m tu w th fr	nonday Jesday rednesday hursday hursday hturday inday cancel	help	accept
3	Press menu >   > Set program custom progra	Program > Set Im.	Se yo	elect da	iys of th to prog	ie week ram.
	start t period 1 06:00 2 period 2 19:00 2 cancel help	emp end 2.0°C 08:00 0.0°C 23:00 add period accept		start ▲ 96:00 ▼ cancel	temp ▲ 22.0°C ▼ help	end ▲ 08:00 ▼ accept
	Select period begin program	1 to iming.	Pr	ogram rget te	the tim mperat	es and ures of

target temperatures of your custom schedule and press accept. Repeat for additional periods.

Setback Temperature - The setback temperature is defaulted to 16°C. To alter the setback Press Menu > Program > Set setback temperature.

### **Preset Program**

preset program.

Select a Preset Program created by Warmup. See the summary of the Preset Programmes below.

1 select a preset bathroom living room bedroom kitchen back	2 monday	accept
Press menu > Program > Set program > Select	Press accept.	

	Bath	room	Living	g Room	Bedi	room	Kito	hen:
	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.
Mon- Fri	06:00 08:00 19:00 23:00	22°C 16°C 20°C 16°C	18:00 21:30	23°C 16°C	06:00 08:00 20:00 23:00	21°C 16°C 20°C 16°C	06:00 08:00 18:00 22:00	21°C 16°C 21°C 16°C
Sat- Sun	07:00 11:00 18:00 23:00	22°C 16°C 20°C 16°C	08:00 21:30	21°C 16°C	06:00 08:00 20:00 23:00	21°C 16°C 20°C 16°C	07:00 11:00 18:00 22:00	21°C 16°C 21°C 16°C

#### **Fixed Temperature**

Set a fixed temperature for the thermostat to reach and maintain until you revert back to program mode or switch the heating off.

1		2 fixed temperature	e
set custom program select preset program	set fixed temperature	18	▲ 8.0°C ▼
back		back	accept
Press men Set progra temperati	u > Program > am > Set fixed ure.	Set the targ temperatur accept.	get e and press

#### **Temporary Override**

Set a temperature you would like the thermostat to reach and the length of time you want this override to last.



Press the temperature in the middle of the home screen.

Alternatively press menu > Temperature > Override.

Set the target temperature, duration of override and press accept.

### **Holiday Mode**

Holiday Mode allows you to override your schedule with a lower fixed temperature over a set time to save energy.

1		2	
	holiday mode	start date	
	start date off		
	end date off	14:00 24 oct 2016 ▼ ▼ ▼ ▼	
	back program	back nex	t
	Press menu > Program > Holiday mode > Program.	Set the holiday start time and date and press next.	
3	end date 19:00 30 oct 2016 V V V	override target until ▲ ▲ 23.0°C 15min ▼ ▼ back accept	
	Set the holiday end time and date and	Set the holiday target temperature and press	s

temperature and press accept.

#### Frost Protect

press next.

Select Frost Protect to set your heating to a constant 7°C to protect your home from frost. Press menu > Temperature > Frost protection.

#### MyHeating App & MyWarmup Portal

You can also program your 4iE with your tablet or smartphone using the MyHeating App or by visiting my.warmup.com.

### **Energy Monitoring**

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.

On initial set up, Step 6, you will have entered the power (wattage) of your system and the cost per kilowatt hour charged by your energy provider. The 4iE will use this information to calculate the running cost of your system.

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.



## **4iE** Troubleshooting

Display is blank	1. Check that the display/standby brightness is not on the lowest settings '0'.
	2. (Electrician Required) Electrician required to verify power is going to the 4iE and that it is correctly wired.

"er1" or "er2" is displayed	1. (Electrician Required) Electrician required to verify that the floor sensor has been wired correctly. If it is correctly wired the electrician will need to check the resistance of the floor sensor using a multi meter. For temperatures between 20°C and 30°C the resistance of the floor sensor should measure between 8K ohms and 12K ohms.
	If the electrician finds a fault, and the 4iE is in the room to be heated then it can be set into "Air Mode".

Heating is coming on	1. The 4iE "Early Start" function is on. This means
earlier than the pre-	that the heating will come on early to achieve the set
programmed times	temperature at the set time.

l cannot to set above a certain temperature	<ol> <li>Delicate floor coverings need to have their temperatures limited. If the finished floor is set for wood, laminate, vinyl etc. you are unable to set the temperature above 27°C.</li> </ol>
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# **4iE** WiFi Troubleshooting ₩

Before following the troubleshooting guide below please check the following:

- 1. The password is WPA2 protected.
- 2. The router is set to a 2.4 GHz band. (802.11 b, g, n, b/g mixed, b/g/n mixed)

NOTE: If you need to change any of the items listed above, please contact your ISP.



## 4iE Server Troubleshooting



Notes

#### Notes

## Settings

Time	Manually set time
Set time	Manually set date
Set date	Set daylight savings
Daylight savings	(europe/n.america/australia/off)
Heating preference	Celsius/fahrenheit
Temperature format	Use air or floor sensor as heating target
Control air/floor	Starts heating early so it's up to temperature at
Early Start	the right time
Display/Audio Background Home screen style Display brightness Lock Audio	Change the background screen (upload your own via MyHeating App or by visiting my.warmup.com) Choose a theme for the main screen Change the screen brightness for normal use and standby Set a lock code Feedback turn the 'click' sound on/off
Network	Choose a WiFi network

## Advanced Settings

### Heater Settings

Set the temperature limits for your floor type. User Defined lets you set custom limits
Controls the heating in 10 minute cycles. The number you enter is the number of minutes in a 10 minute cycle that the heating will be on
This is a feature specifically for France
This allows one thermostat to control another
Set the specification of the probes or set to 'none' to hide the probe on the homescreen
Choose if the floor probe is being used as a Floor or Amb (ambient) sensor
Set the offset of the sensors to improve accuracy
This will restore all the factory default settings

# **4iE** Technical Specifications

Model	4iE-01-**-01/02
Dimensions (Assembled with 4iE face)	90 x 120 x 18mm
Screen size	3.5in
IP Rating	IP33
Sensors	Air & Floor (Ambient)
Sensor Type	NTC10k 3m Long (Can Be Extended To 50m)
Max. Load	16A (3680W)
Operating Frequency	2401-2483MHz
Max. Radio-Frequency Power Transmitted	18dBm
Installation Depth	35mm Back Box
Compatibility	Electric, Hydronic Underfloor Heating (up to 16A.) Central Heating Systems (Combi & system boilers with switch live ,230V AC, input)
Er-P Class	IV
Warranty	3 Year with optional Lifetime Upgrade
Approvals	BEAB

**NOTE:** Hereby, Warmup plc, declares that the radio equipment type 4iE-01-\*\*-01/02 is in compliance with the RED Directive 2014/53/EU. The declaration of conformity may be consulted by visiting: https://www.warmupsmart.com/declarations-of-conformity/4ie-declaration-of-conformity/

#### Manufactured By:

Warmup plc 702 & 704 Tudor Estate Abbey Road London NW10 7UW

# Contact Us

UK

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#### Warranty

Warmup plc warrants this product, to be free from defects in the workmanship or materials, under normal use and service, for a period of three (3) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective, Warmup shall repair or replace it, at Warmup's option. If the product is defective, please either,

(i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or

(ii) contact Warmup. Warmup will determine whether the product should be returned, or replaced.

This warranty does not cover removal or re-installation costs, and shall not apply if it is shown by Warmup that the defect or malfunction was caused by failure to follow the instruction manuals, incorrect installation or damage which occurred while the product was in the possession of a consumer.

Warmup's sole responsibility shall be to repair or replace the product within the terms stated above.

WARMUP SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLIDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY WARMUP MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MARCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE THREE-YEAR DURATION OF THIS WARRANTY.

This Warranty does not affect your statutory rights.