4iE Portrait

Installation & Operating Manual
(WiFi & Non-WiFi)

For technical help:
US: (888) 927-6333
CA: (888) 592-7687
warmup.com
warmup.ca
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**IMPORTANT INFORMATION:** Installation should only be carried out by a qualified and competent electrician and must conform to local electrical code. Conduits are only required where it is mandated by state or provincial code. Please refer to local electrical code for compliant applications.

The 4iE and its power supply should be isolated from the mains supply throughout the installation process.
4iE Portrait
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).

For the WiFi enabled 4iE, ensure the distance from your router to the 4iE is not too great. This will reduce the risk of signal strength and interference issues.

1. Loosen both screws to the left of the 4iE and remove the Back Plate.
2. Install square 2 3/4” deep back box with a single mud ring (also called plaster ring) in your preferred thermostat location.
4iE Portrait
Step 2 - Wiring Connections

Isolate the thermostat from the mains supply throughout the installation process

Heating Load connected to 4iE - Max. 15 Amps

N.B. Input voltage 120V (Hot/Neutral) or 240V (Hot/Hot). Device is dual voltage capable.
4iE Portrait
Step 2 - Wiring Connections

Heating Load connected to Relay 25 - Max. 25 Amps

N.B. All heating loads connect to Relay-25 only, controlled by 4iE
4iE Portrait
Step 2 - Wiring Connections

Heating Load connected to 4iE and Relay 25 - Max. 40 Amps

N.B. Heating loads connect to Relay-25 and 4iE:

- Relay-25 Max load 25A
- 4iE Max load 15A
- Total Max load 40A
Master/relay function: Used to control loads greater than 15A. 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 1 & 2 of the Master 4iE.

Wiring Connections: Use low voltage electrical cables to link terminals 2 & 3 of the Master and Relay.

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

NOTE: Set the relay 4iE to relay first.
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.
Getting Started

**4iE Portrait (WiFi Version)**

**Step 4 - Getting Started**

Steps 4 to 6 are specific to the WiFi enabled version of the 4iE. For setup of the Non-WiFi version of the 4iE see page 13.

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 Portrait (WiFi Version)
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

Go to my.warmup.com or MyHeating App to complete setup
Your device number is

- - - - - - - -

ok
Registration

4iE Portrait (WiFi Version)
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, you must enter the following information:

- Location: (Select the newly setup location)
- Room name: (Description, e.g. Upstairs Bathroom)
- Room type: (Select the room type e.g. Bathroom)
- Floor type: (Select the floor type e.g. Tile/stone)
- Device number: (See page 11)
- System type: (Select e.g. 'Electric Underfloor')
- System power: (Size of heat source e.g. 1000W)
- Power source: (Energy source e.g. gas/electricity)

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.
### 4iE Portrait (Non WiFi Version)

On initial power up you will have to configure the setup of your 4iE. The settings are detailed below.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>select your chosen language</td>
</tr>
<tr>
<td>System type</td>
<td>select your chosen heating system and enter correct wattage you have connected</td>
</tr>
<tr>
<td>Set time</td>
<td>manually set time</td>
</tr>
<tr>
<td>Set date</td>
<td>manually set date</td>
</tr>
<tr>
<td>Daylight savings</td>
<td>set daylight savings (europe/n.america/australia/off)</td>
</tr>
<tr>
<td>Temperature format</td>
<td>fahrenheit/celsius</td>
</tr>
<tr>
<td>Home screen style</td>
<td>select the theme for your 4iE</td>
</tr>
<tr>
<td>Background image</td>
<td>select the background image for your 4iE</td>
</tr>
<tr>
<td>Display brightness</td>
<td>change the screen brightness for normal use and standby</td>
</tr>
<tr>
<td>Audio feedback</td>
<td>turn the ‘click’ sound on/off</td>
</tr>
<tr>
<td>Heating target</td>
<td>control your heating using the floor/air sensor</td>
</tr>
<tr>
<td>Heating limits</td>
<td>set the temperature limits for your floor type. User Defined lets you set custom limits</td>
</tr>
<tr>
<td>Tariff settings</td>
<td>select single or standard/low energy tariff</td>
</tr>
<tr>
<td>Set a program</td>
<td>select between, custom, preset &amp; or fixed temperature</td>
</tr>
<tr>
<td>Setback Temperature</td>
<td>set a lower temperature for the thermostat to achieve on your “away periods” or set to “off” if no heating is required.</td>
</tr>
</tbody>
</table>

**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 with Relay*. 
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.

* Weather App is only available on Wi-Fi enabled version of the 4iE.
Custom Program

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

1. Press menu > Program > Set program > Set custom program.
2. Select days of the week you wish to program.
3. Select period 1 to begin programming.
4. Program the times and target temperatures of your custom schedule and press accept. Repeat for additional periods.

Setback Temperature - The setback temperature is defaulted to 61°F. To alter the setback Press Menu > Program > Set setback temperature.
**Preset Program**

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

Press menu > Program > Set program > Select preset program.

Press accept.

<table>
<thead>
<tr>
<th>Mon-Fri</th>
<th>Bath</th>
<th>Living</th>
<th>Bed</th>
<th>Kitchen</th>
</tr>
</thead>
<tbody>
<tr>
<td>06:00</td>
<td>72°F</td>
<td>06:00</td>
<td>70°F</td>
<td>06:00</td>
</tr>
<tr>
<td>08:00</td>
<td>61°F</td>
<td>08:00</td>
<td>61°F</td>
<td>08:00</td>
</tr>
<tr>
<td>07:00</td>
<td>68°F</td>
<td>09:30</td>
<td>61°F</td>
<td>08:00</td>
</tr>
<tr>
<td>11:00</td>
<td>61°F</td>
<td></td>
<td></td>
<td>11:00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sat-Sun</th>
<th>Bath</th>
<th>Living</th>
<th>Bed</th>
<th>Kitchen</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>72°F</td>
<td>06:00</td>
<td>70°F</td>
<td>06:00</td>
</tr>
<tr>
<td>11:00</td>
<td>61°F</td>
<td>08:00</td>
<td>61°F</td>
<td>08:00</td>
</tr>
<tr>
<td>06:00</td>
<td>68°F</td>
<td>09:30</td>
<td>61°F</td>
<td>08:00</td>
</tr>
<tr>
<td>11:00</td>
<td>61°F</td>
<td></td>
<td></td>
<td>11:00</td>
</tr>
</tbody>
</table>

**Tips:**
- **Temperature Settings:**
  - Mon-Fri: 61°F - 70°F
  - Sat-Sun: 61°F - 70°F

**Programs:**
- **Bathroom:**
  - Mon-Fri: 06:00 - 11:00
  - Sat-Sun: 07:00 - 11:00

- **Living Room:**
  - Mon-Fri: 06:00 - 11:00
  - Sat-Sun: 08:00 - 11:00

- **Bedroom:**
  - Mon-Fri: 06:00 - 11:00
  - Sat-Sun: 07:00 - 11:00

- **Kitchen:**
  - Mon-Fri: 06:00 - 11:00
  - Sat-Sun: 07:00 - 11:00
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. Press menu > Program > Set program > Set fixed temperature.
   
2. Set the target temperature and press accept.

Temporary Override

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

1. Press the temperature in the middle of the home screen.
   Alternatively press menu > Temperature > Override.

2. 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. Press menu > Program > Holiday mode > Program.

2. Set the holiday start time and date and press next.

3. Set the holiday end time and date and press next.

4. Set the holiday target temperature and press accept.

Frost Protect

Select Frost Protect to set your heating to a constant 45°F to protect your home from frost. Press menu > Temperature > Frost protection.
### Time
- **Set time**: Manually set time
- **Set date**: Manually set date
- **Daylight savings**: Set daylight savings (europe/n.america/australia/off)

### Heating preference
- **Temperature format**: Celsius/fahrenheit
- **Control air/floor**: Use air or floor sensor as heating target
- **Early Start**: Starts heating early so it’s up to temperature at the right time

### Display/Audio
- **Background**: Change the background screen (upload your own via MyHeating App or by visiting my.warmup.com)
- **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
- **Audio**: Feedback turn the ‘click’ sound on/off

### Network
- Choose a WiFi network

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### Advanced Settings

#### Heater Settings
- **Heating Limits**: Set the temperature limits for your floor type. User Defined lets you set custom limits
- **Regulator**: 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 allows one thermostat to control another
- **Ext Output**: This allows one thermostat to control another

#### Probes
- **Set the specification of the probes or set to ‘none’ to hide the probe on the homescreen**

#### 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
# 4iE Portrait

## 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 68°F and 86°F 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”. *(Air Mode only suitable for tiled floors if floor sensor has been damaged)* |
| Heating is coming on earlier than the pre-programmed times | 1. The 4iE “Early Start” function is on. This means that the heating will come on early to achieve the set temperature at the set time. |
| I cannot to set above a certain temperature | 1. 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 81°F. |
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.
Troubleshooting

4iE Portrait
Server Troubleshooting

4iE won’t connect to Warmup Server

Has the 4iE been registered?

Remove the front fascia and after 10-15 seconds reattach does the error go?

On MyHeating App, if you delete the room and re-add the device does the error go?

You can now begin programming the 4iE

Update router firmware

Possible thermostat issue. Please contact our helpline

Set your smartphone up as a mobile hotspot and try to connect the 4iE to this network. Does the error go?

Possible issue with router or firewall settings in preventing a successful connection. Provide us with the make and model of the router and we will investigate further.

If you reboot/restart your router does the error go?

Download the MyHeating App and register the device

You can now begin programming the 4iE

If you reboot/restart your router does the error go?

You can now begin programming the 4iE

NO

YES

NO

NO

YES

YES

NO

YES

NO

YES

NO

YES
FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Caution: To maintain compliance with the RF exposure guidelines, place the unit at least 20cm from nearby persons.
IC Statement

This device complies with Industry Canada Licence-exempt RSS-247. Operation is subject to the following two conditions:

(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution: To maintain compliance with the RF exposure guidelines, place the unit at least 20cm from nearby persons.

Déclaration IC
Cet appareil est en conformité avec la licence Industrie Canada CNR-247. Son fonctionnement est sujet aux deux conditions suivantes:

(1) Cet appareil ne doit pas causer d’interférences ; et
(2) Cet appareil ne doit accepter aucun signal interférent, incluant les signaux pouvant perturber le fonctionnement dudit appareil.

Attention: Les consignes de fréquences radio requièrent l’installation à au moins 20cm des utilisateurs occupant la pièce.

GFCI Notice

The GFCI feature is used to detect any leakage of current from your heating system. During a ground fault the two lines of the load will be cut off. Once your thermostat is installed and connected to a power supply you can test the GFCI function by increasing the set temperature until heating is on - the heating up icon (▲) will be illuminated - and pressing the “TEST” button. If your test is successful you will see the GROUND FAULT screen and you will need to hold “cancel” for 3 seconds in order to restore heating operation.

However if the thermostat detects that one of the relays has FAILED to open correctly you will see the CONTROL FAULT screen and the TEST LED will illuminate. In the following circumstances you should immediately isolate the power supply to the thermostat and contact our helpline:

1. Press the TEST button when heating is on (heating icon ▲ will be illuminated) and the screen does not display GROUND FAULT or cut power to the load.
2. The thermostat shows the GROUND FAULT screen during normal operation.
3. The thermostat shows the CONTROL FAULT screen.

NOTE: The GFCI test should be carried out monthly.
## 4iE Portrait
### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>120-240V AC 60Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.54 x 4.72 x 0.70in</td>
</tr>
<tr>
<td>Screen size</td>
<td>2.7 x 2.5in</td>
</tr>
<tr>
<td>GFCI</td>
<td>Class A GFCI with 5mA trip level</td>
</tr>
<tr>
<td>Sensors</td>
<td>Air &amp; Floor (Ambient)</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>NTC10k 3m Long</td>
</tr>
<tr>
<td></td>
<td>(Can Be Extended To 50m)</td>
</tr>
<tr>
<td>Max. Load</td>
<td>15A (3600W)</td>
</tr>
<tr>
<td>Class</td>
<td>II</td>
</tr>
<tr>
<td>Installation Depth</td>
<td>2-3/4in deep double gang box recommended</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Electric, Hydronic Underfloor Heating (up to 16A.)</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 Year with optional Lifetime Upgrade</td>
</tr>
<tr>
<td>Approvals</td>
<td>ETL</td>
</tr>
</tbody>
</table>
Contact Us

warmup.com
warmup.ca
US: (888) 927-6333
CA: (888)-592-7687
Email: us@warmup.com

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, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, 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 MERCHANTABILITY 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.