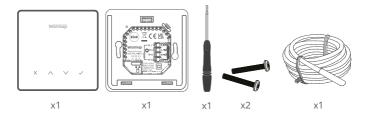


Element WiFi Thermostat

Smart Heating. Simplified.



User Guide



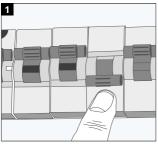
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Safety Information

- □ The thermostat must be installed by a qualified electrician. It requires a permanent 230 V AC supply from a 30mA RCD or RCBO protected circuit in accordance with the current edition of the BS7671 Wiring Regulations.
- Isolate the thermostat from the mains supply throughout the installation process. Ensure that wires are fully inserted into the terminals and secured, free strands should be trimmed, as they could cause a short-circuit.
- □ Install the thermostat 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 thermostat is not excessive. This will ensure the wireless connection is not subject to range or interference issues once installed.
- □ For bathroom installations the thermostat MUST be mounted outside of Zones 0, 1 and 2. If this is not possible then it must be installed in an adjacent room, controlling the rooms using the floor sensor only.
- The thermostat and its packaging are not toys; do not allow children to play with them. Small components and packaging present a risk of choking or suffocation.
- The thermostat is suitable for indoor use only. It must not be exposed to moisture, vibrations, mechanical loads or temperatures outside of its rated values.
- For safety and licensing reasons (CE/UKCA), unauthorised change and/or modification of the thermostat is not permitted.

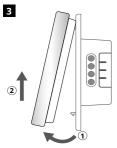
Step 1 - Installation



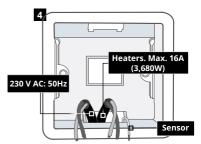




Unclip the display from the power base.



Release the display as shown.



Install a 50 mm deep electrical back box (35 mm min.) in your preferred thermostat location. Pull wires (heater, supply and sensor(s) through back box and complete terminal wiring.

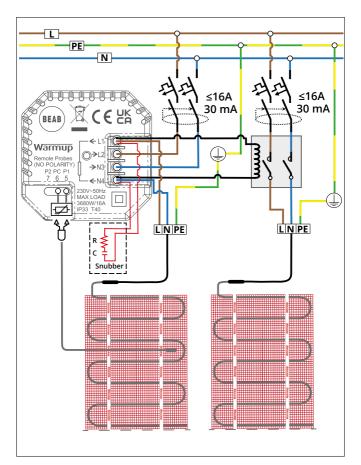
WARNING!

The thermostat must be installed by a qualified electrician in accordance with the current edition of the BS7671 Wiring Regulations.

 $\ensuremath{\text{NOTE:}}$ For loads above 10 A, the conductor wire gauge should be at least $2.5\ensuremath{\text{mm}}^2$

	BEAB CECK Warmup Remote Probes (NO POLARITY) P2 PC P1 -7.6.5 230V~50Hz MAX LOAD 3680W/16A 1933 T40
Electric U	Inderfloor Heating Heater Live and Neutral
	Max. 16A (3680W)
L2 & N3	Supply Live and Neutral
	Underfloor Heating
L1	Switched Live to Wiring Centre
L2 & N3	Supply Live and Neutral
N4	Not Used
Central I	5
L1	Switched Live to Zone Valve /Boiler
L2 & N3	Supply Live and Neutral
N4	Not Used low voltage or volt-free systems a contactor must be used.
Connecti may caus	ng the thermostat directly to extra low voltage or volt-free boilers se damage to the boiler circuit.
	onnection
5&6	Probe 1 - Floor/Air Control Sensor (No Polarity)
6&7	Probe 2 - Limit Sensor (No Polarity)
See Table	e 1.0 for thermostat use cases

Warmup thermostats are rated for a maximum of 16 amps (3680 W). A contactor must be used to switch loads exceeding 16 amps. Please see wiring diagram below.



	Remote P (NO POLA P2 PC 	robes ARITY) C P1	.OAD //16A	
#	Use Case	System Type	Control	Limit Sensor
1	Thermostat IN room Air temperature schedule No floor limit	, , 🚺	Internal Air Sensor	None
2*	Thermostat IN/OUT of room Floor temperature schedule Floor limit	G	Probe 1 (5 & 6) Floor Sensor	None
3	Thermostat IN room Floor temperature schedule Air limit	00	Probe 1 (5 & 6) Floor Sensor	Internal Air Sensor
4	Thermostat OUT of room Air temperature schedule No floor limit	,, 🕥	Probe 1 (5 & 6) Air Sensor	None
5**	Thermostat IN room Air temperature schedule Floor limit	00	Internal Air Sensor	Probe 2 (6 & 7) Floor Limit
6	Thermostat IN/OUT of room Floor temperature schedule Floor limit	G	Probe 1 (5 & 6) Floor Sensor	Probe 2 (6 & 7) Floor Limit
7	Thermostat OUT of room Air temperature schedule Floor limit	00	Probe 1 (5 & 6) Air Sensor	Probe 2 (6 & 7) Floor Limit
8	Thermostat IN/OUT of room Regulator schedule No limit	,IIII, () ()	Reg.	None
9	Thermostat IN room Regulator schedule Air limit	,, 🗘 🔿	Reg.	Internal Air Sensor
10	Thermostat IN/OUT of room Regulator schedule No limit	,IIII, () ()	Reg.	None
11	Thermostat IN/OUT of room Regulator schedule Floor limit	00	Reg.	Probe 2 (6 & 7) Floor Limit
12	Thermostat IN/OUT of room Regulator schedule Floor limit	,	Reg.	Probe 2 (6 & 7) Floor Limit

IIIII, Conventional **()** Electric underfloor heating **()** Hydronic underfloor heating 2* Recommended when thermostat is **OUT** of the heated room

 $2^{\ast}\,$ Recommended when thermostat is ${\rm OUT}$ of the heated room $5^{\ast\ast}$ Recommended when thermostat is ${\rm IN}$ the heated room

1

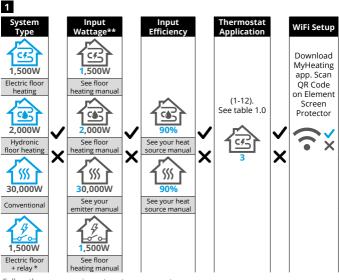


Insert fixing screws through mounting holes of the power base and tighten.

Step 4 - Initial Setup



Re-attach the front housing until a "click" is heard. You can now power up the thermostat.



Follow the on screen icons to set up your system.

^{*} If an external relay has been installed please set System Type as **Electric Floor + Relay**.

** Refer to your floor heating or heat source manual for correct wattage and efficiency inputs



Follow the on screen icons to set up your system.



Step 4 - Initial Setup



Download the MyHeating App.

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Once your location is set up, register a

room where your thermostat is located.

This will be the heating zone it controls.

Select the Element with QR code as



Set up a location before configuring a room and registering the thermostat. Have your current energy tariff and pricing ready if you want to use energy monitoring features.



3



Scan the QR Code on the thermostat screen protector. Follow the instructions in the App to complete setup. Note: Before scanning the QR code, ensure your device is connected to a 2.4GHz WiFi network, as the thermostat only supports 2.4GHz connections.

NOTE:

shown.

4

If adding the thermostat to the app after the initial setup, follow these steps to access the Pairing Screen and prepare to add a room.

Return to Pairing Screen:

- 1. Press the Tick button.
- 2. Press down to the Cog symbol and press Tick.
- 3. Press down to the WiFi symbol and press Tick.
- 4. Press down to the Cog symbol again and press Tick.

Select Device

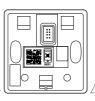
In App

1. Press "Add Room" and follow Steps 4 & 5 above.

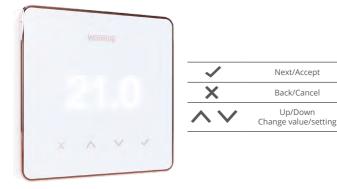
If the QR Code Is Missing

Insert a screwdriver into the gap underneath the unit to remove the fascia.

- 1. Using another device take a picture of the backup OR code on the back of the fascia.
- 2. Re-attach the fascia, return to the Pairing Screen as shown previously
- 3. "Add Room" as shown previously and scan the QR code from the photo you took earlier.









How to quickly change the temperature

Press / V to change your target temperature.

If in program mode this will set a temporary override until your next heating period. See "How to set a temporary override".

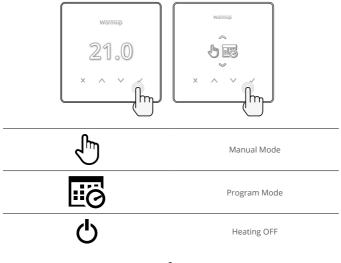
If in manual mode this will set a fixed target temperature. See "How to set into Manual Mode"

Once the target temperature is set above current floor/air temperature the heating indicator (e) will appear in the top right hand corner.



How to quickly change mode

Mode select allows you to quickly change from manual mode, program mode or simply switch the heating off.



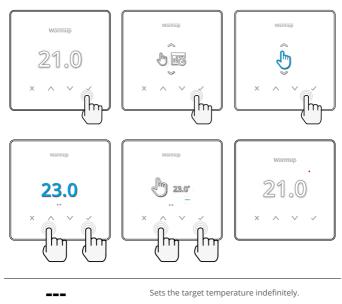
How to set a program

Setting a program allows you to set comfort temperatures at set times throughout the day. Days can programmed individually, all days the same or weekdays as a block and weekends as a block, the choice is yours.



How to set into Manual Mode

Setting into manual mode allows you to set a fixed target temperature for the thermostat to achieve. The thermostat will continue to maintain this temperature until another operating mode or temperature is selected.

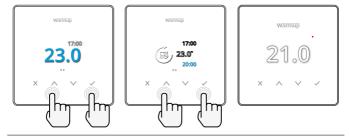


Set the duration of the manual mode.

How to set a Temporary Override

Setting a temporary override allows you to set a target temperature which will override your current heating program until your next heating period or for a set duration.





ii)

Sets the override until next scheduled heating period.

Sets the duration of the override.

Energy Monitor



How Energy Monitor works

The thermostat learns how you use your system and how your house reacts to heating and weather. Using the MyHeating App, energy monitoring will show the amount of energy consumed over a certain time period. This will be calculated through system power multiplied by efficiency and run time.

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 system manufacturer.

SmartGeo

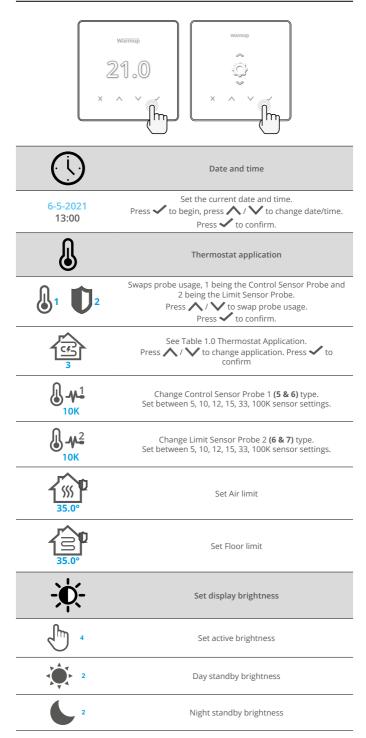
=	WARMUP SN	A A R I
2.0	â	
Demo	mode	
SmartG	ieo [™] Active	
SmartGe temperat	o [™] has calculated th ture so this location i ind always running e	
SmartGe temperat	rure so this location i ind always running e sage	is warm when
SmartGe temperat needed a Daily u	ure so this location i ind always running e sage £14.30	is warm when
SmartGe temperat needed a Daily u 130 kWh	ure so this location and always running e sage E14.30 om x 18.3 [°]	is warm when

How SmartGeo works

SmartGeo is a unique technology developed by Warmup and built into the MyHeating App that uses an advanced algorithm to understand the most efficient heat settings for your home.

Working automatically; it learns your routines and location through background communication with your smartphone and lowers temperatures when you are away, only rising them up to your ideal comfort temperature in time for your arrival home.

Smartgeo will operate when the thermostat is in the program or manual run modes. It is turned off by default. Use the MyHeating App to switch SmartGeo on.



S	Change homescreen override colour
	Select the override colour.
	Open window function
×	The windows open detection feature is designed to switch off heating to save energy when the thermostat detects that a window or door has been opened.
	Display lock
	Switch display lock on.
0000	Set display lock code.
f	Switch display lock off.
·	WiFi
	WiFi Setup
	Open MyHeating App and scan the QR code on the back of the thermostat display to complete WiFi setup.
	Factory reset
	Factory reset will erase all of your settings and restore the thermostat to factory defaults.

Notifications & Error codes

C	Date and time needs to be set.		Heating switched OFF
	Open window function triggered.		Display locked
Ċ	Temporary override enabled	2-1	Sensor P2 (6 & 7) error
R	Holiday mode enabled. (Configured in MyHeating App)		Sensor P1 (5 & 6) not connected / damaged or Internal air sensor fault
	Frost protect enabled. (Configured in MyHeating App)	<u>?</u> !	WiFi not setup

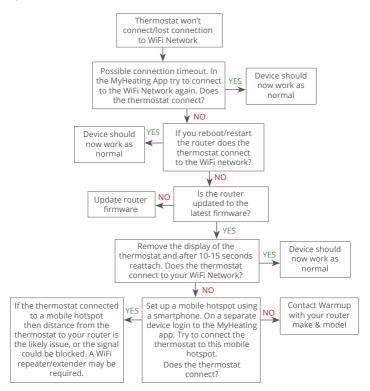
Troubleshooting

Display is blank	Power	(Electrician Required) Electrician required
	Tower	to verify power is going to the thermostat and that it is correctly wired.
	Control (5 & 6) / Interal Air sensor error	1. Please see Table 1.0 and ensure you have selected the correct thermostat application. 2. (Electrician Required) Electrician
2-1/	Limit Sensor Error (6 & 7)	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 - 30°C the resistance of the floor sensor should measure between 8K ohms and 12K ohms.
		If the electrician finds a fault, and the thermostat is in the room to be heated then it can be set into "Air Mode".
		To set into "Air Mode", see Table 1.0 Thermostat application.
		If "" still remains when set into air mode the thermostat will have to be replaced.
Heating is coming on earlier than programmed times	Adaptive learning (Early start) On	Adaptive learning (Early start) will use the historic heating/cooling rates for the time of day, historic external temperatures and the forecast external temperatures, to work out the heating start time in order to reach the comfort time at the start of the comfort period. It will only work in Program Mode.
WiFi Error Symbol	WiFi not setup	 Download and open the MyHeating App Remove thermostat from the wall Scan QR code on the back of the display Place thermostat back on the wall and power-up Thermostat will be in pairing mode for 1 minute. App should automatically connect to phone Follow instructions in App
	WiFi disconnected	Follow the step above to try and to re-connect to the WiFi Network. If the thermostat still fails to connect, see WiFi Troubleshooting.
Clock Icon	Time and Date not set	Connect the thermostat to a WiFi network or alternatively set the time and date from the settings menu.

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 refer to your router manual.



Technical Specifications

Model	RSW-01-XX-YY
Operating Voltage	230 V AC : 50 Hz
Protection Class	Class II
Max. Load	16A (3680W)
Rated impulse voltage	4000V
Automatic action	100,000 cycles
Disconnection means	Type 1B
Pollution degree	2
Programmable Temperature	0 - 30°C
Max. Ambient Temperature	0 - 40°C
Relative Humidity	80%
IP Rating	IP33
Dimensions (Assembled)	86 x 86 x 16 mm
Screen size	1.8″
Sensors	Air & Floor (Ambient)
Sensor Type	NTC10k 3m Long (Can Be Extended To 50m)
Operating Frequency	2401 - 2484MHz
Max. Radio-Frequency Power Transmitted	20dBm
Installation Depth	Recommended: 50 mm Back Box Minimum: 35 mm Back Box
Compatibility	Electric, Hydronic Underfloor Heating. Max. 16A (3680W) Central Heating Systems (Combi & system boilers with switch live, 230V AC input)
Er-P Class	IV
Warranty	12 Years
Approvals	BEAB

NOTE: Hereby, Warmup plc, declares that the radio equipment type RSW-01-XX-YY is in compliance with the RED Directive 2014/53/EU and Radio Equipment Regulations 2017. The declarations of conformity may be consulted by pressing the CE or UKCA icon.



Instructions for Disposal

Do not dispose of the device with regular domestic waste! Electronic equipment must be disposed of at local collection points for waste electronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive. We, Warmup plc, as manufacturer, hereby declare in our opinion, that the below product(s) covered in this document have complied the deemed compliance conditions in Schedule 2 of The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("Security Requirements"). Deemed compliance was made using specific clauses of ETSI EN 303 645 V2.1.1 (2020-06) as required by the PSTI "Security requirements".

Product	Warmup Element
Model	RSW-01-OB-DC, RSW-01-WH-RG
Defined Support Period (UK only)	2 Years
Manufacturer's Name	Warmup plc
Manufacturer's Address	704 Tudor Estate, Abbey Road, London, NW10 7UW, UK

This statement of compliance is prepared by or on behalf of the manufacturer of the product.

Signature	AMuhite
Name	Antony White
Title	Technical Director
Place	London, UK
Date	19/04/2024

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK.

EcoDesign compliance information card

This control has the following control functions and exceeds the EcoDesign requirements for electric underfloor local space heaters and towel rails as set out in Commission Regulation (EU) 2024/1103: **TW (f2/f3/f4/f8)**

The Element includes these control function codes and power consumptions:

	Thermost	tat model				
RSW (7iE-01)						
	Control fur	nction code				
	TW (f2/1	f3/f4/f8)				
	Power cor	sumption				
	Standby mode		Idle mode			
P _{sm} ≤0.5W	$P_{dsm} \le 1.0W$	P _{nsm} ≤2.0W	$P_{idle} \le 1.0W$	$P_{nidle} \le 3.0W$		
		\checkmark		\checkmark		
output/room are control m temperature us day timer		pov The control mus tandby mode, in ac	ver consumption t include an off mo ldition to an idle mo	de and/or a ode. The power		
	output/room ire control m temperature	Control fur TW (f2// Power cor Standby mode P _{sm} ≤ 0.5W P _{sm} ≤ 1.0W output/room ire control m temperature is day timer	Control function code TW (f2/f3/f4/f8) Power consumption Standby mode P_sm ≤ 0.5W P_dsm ≤ 1.0W P_nsm ≤ 2.0W Image: Colspan="2">Image: Colspan="2">Room 1 Output/room Room 1 Image: Image: Colspan="2">The control must consumption Output/room Room 1 Image: Image: Colspan="2">Room 1 Image: Image: Colspan="2">The control must consumption must consumption	Control function code TW (f2/f3/f4/f8) Power consumption Standby mode Idle in P_um ≤ 0.5W P_dum ≤ 1.0W P_num ≤ 2.0W P_dum ≤ 1.0W P_um ≤ 0.5W P_dum ≤ 1.0W Im Im Im Output/room Room temperature control must include an off mo standby mode, in addition to an idle m consumption must comply with require consumption must comply with require consumption must comply with require consumption		

	control plus day timer			
TW	Electronic room temperature control plus week timer	\checkmark		
Other control options				
f2	Open window detection	\checkmark		
f3	Distance control option	\checkmark		
f4	Adaptive start control	\checkmark		
f7	Self-learning functionality			
f8	Control accuracy	\checkmark		

consumption must comply with requirements for each mode where applicable.						
In off mode	$P_{o} \le 0.5W$					
In standby mode	$P_{sm} \leq 0.5W$					
	P _{dsm} ≤ 1.0W (if control has an active display in standby mode)					
	$P_{nsm} \le 2.0W$ (if control has a network connection in standby mode)	\checkmark				
In idle mode	$P_{idle} \le 1.0W$					
	P _{nidle} ≤ 3.0W (if control has a network connection)	\checkmark				

Control function codes (Required to be in manual as part Regulation (EU) 2024/1103)

		Code of	Control functions							
		temperature control (TC)	f1	f2	f3	f4	f5	f6	f7	f8
Type of temperature control	Single stage, no temperature control	NC								
	Two or more manual stages, no temperature control	TX								Γ
	Mechanic thermostat room temperature control	TM								Γ
	Electronic room temperature control	TE								
	Electronic room temperature control plus day timer	TD								
	Electronic room temperature control plus week timer	TW								
Control functions	Presence detection		1							
	Open window detection			2						
	Distance control option				3					
	Adaptive start control					4				
	Working time limitation						5			
	Black bulb sensor							6		\square
	Self-learning functionality								7	
	Control accuracy with CA < 2 Kelvin and CSD < 2 Kelvin									8

Warmup plc T: 0345 345 2288 F: 0345 345 2299 www.warmup.co.uk 704 Tudor Estate = Abbey Road = London = NW10 7UW = UK

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 twelve (12) years from the date of purchase by the consumer when installed with a Warmup heater.



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;

Return it, with a bill of sale or other dated proof of purchase, to the place from which you

purchased it, or

Contact Warmup. Warmup will determine whether the product should be returned or replaced.

The twelve (12) year warranty only applies if the product is registered with Warmup within 30 days after purchase. Registration can be completed online at www.warmup.co.uk

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. If the thermostat is installed with a non-Warmup heater a three (3) year warranty will apply. This warranty does not extend to any associated software such as apps or portals.

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 BEACH 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 TWELVE-YEAR DURATION OF THIS WARRANTY.

This warranty does not affect your statutory rights.

Warmup



Warmup plc

www.warmup.co.uk uk@warmup.com **T:** 0345 345 2288 **F:** 0345 345 2299

Warmup plc = 704 Tudor Estate = Abbey Road = London = NW10 7UW = UK Warmup GmbH = Ottostraße 3 = 27793 Wildeshausen = DE