

UK: 5220W / 5226W

AU: 5220AW / 5226AW

Thermotouch Glass Wifi

Programmable thermostat for electric underfloor heating

Installation & User Guide

January 2018



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thermotouch
UNDERFLOOR HEATING CONTROLS

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Compatibility

Thermotouch is compatible with Thermogroup NTC 10K floor sensor probes.

NTC 10k Ω @ 25°C

If you have an existing floor probe from another thermostat that is not compatible, set your thermostat to ambient temperature sensing mode.

(Not advisable for timber or other temperature sensitive floors).

Replacing an existing thermostat?

Contact the manufacturer's technical department and ask for the rating of the floor sensor at 25°C.

What's in the box?

Check you've got everything:

- Programmable thermostat
- Floor sensor probe (3m)
- Floor sensor conduit (2m)
- Fixing screws
- Installation guide and warranty information
- Portrait mounting plate (AU only)

You will also need:

- Electrical screwdriver
- Deep electrical back box (UK only)
- Electrical test meter

Before you start

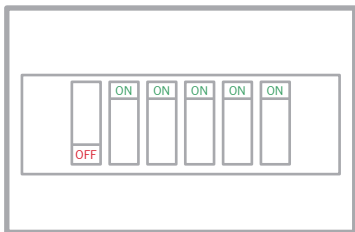
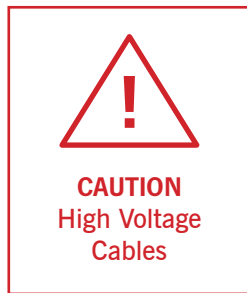
Your thermostat should be:

- Installed 1.2 - 1.5m from the floor
- On an internal wall
- Outside any wet zones (IP30)
- Installed on an RCD protected circuit
- Away from drafts or heat influences
- Installed so that the floor sensor probe can be laid in a heated area of the floor
- Installed by a professional, in line with current electrical regulations and relevant local standards

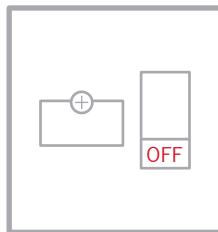
Installing your thermostat

1. Switch off mains power

You will be installing your thermostat as part of a high voltage mains electrical circuit. To ensure your safety and to protect the thermostat, switch off the mains power and remove fuse from the spur before you start the installation.



Fuse Box



Fused Switch

Installing your thermostat

2. Installation location

At this stage it is likely that an RCD protected electric underfloor heating system has been installed and a back box is already in place.

The underfloor heating cold tail should be pulled up through the back box, and the sensor probe installed (in the conduit provided) within the wall cavity or pre chased channel in a solid wall.

Installing your thermostat

3. Maximum distances

Your thermostat can be installed up to 50m away from the underfloor heating system it is controlling, provided that the floor sensor is used to control the temperature.

Underfloor heating cold tails and floor sensor probes can be extended up to 50m.

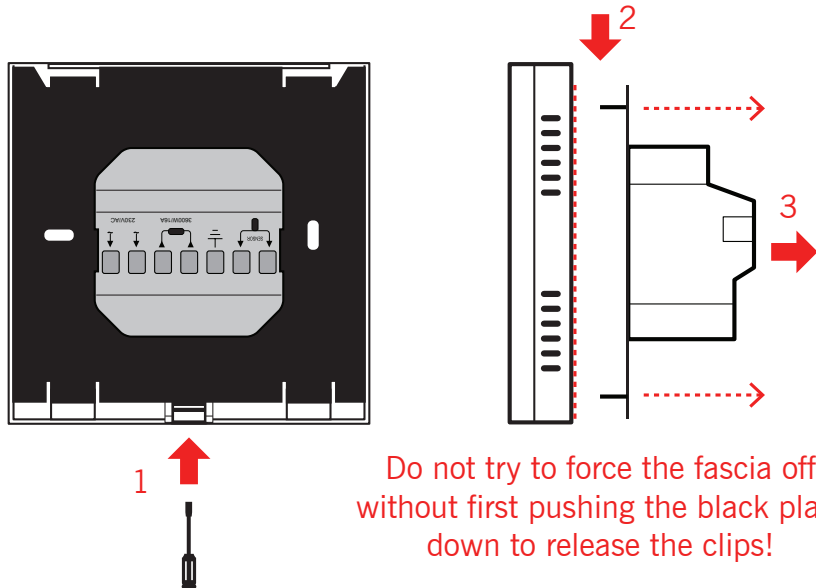
Connect multiple heaters in parallel.



Installing your thermostat

4. Release mounting plate (UK)

Use a flat screwdriver to press in the catch (1) and push the black plate down (2) to release the clips holding the thermostat together. Separate the 2 sections (3) and disconnect the ribbon cable.



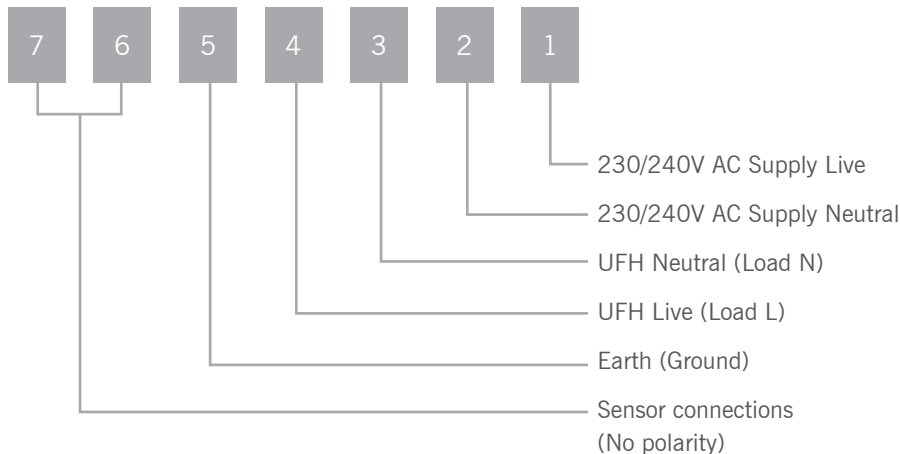
Do not try to force the fascia off without first pushing the black plate down to release the clips!

Installing your thermostat

5. Wiring diagram

Connect the Thermostat to the underfloor heating (UFH) cold tail, power supply and floor temperature sensor.

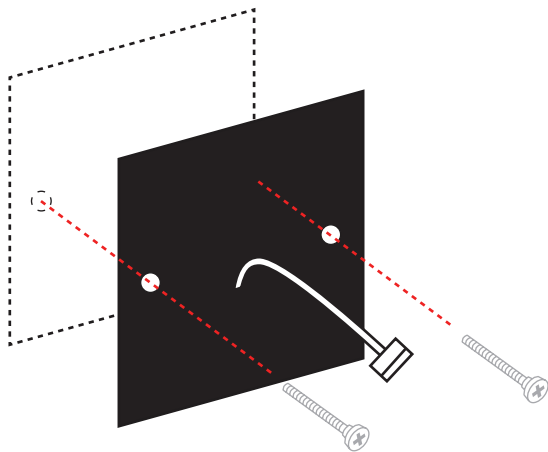
The floor temperature sensor is not polarity sensitive.



Installing your thermostat

6. Fix mounting plate in position (UK)

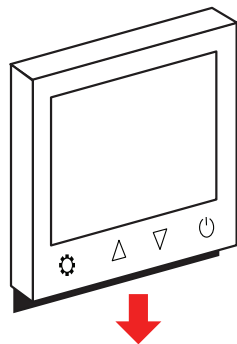
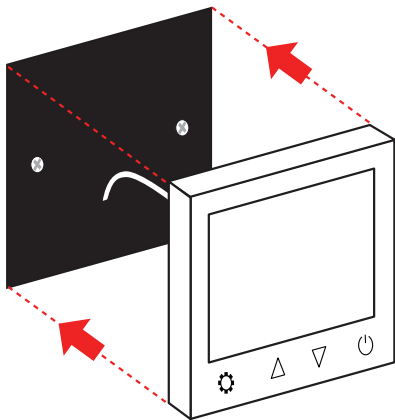
Use a screwdriver to fix the mounting plate to the back box in the wall. Now you can connect the white ribbon cable to the fascia.



Installing your thermostat

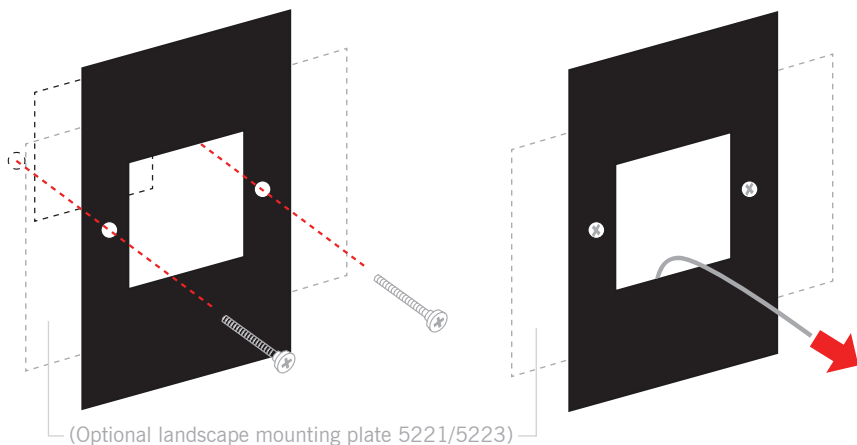
7. Fix thermostat fascia in place (UK)

Locate the thermostat onto the mounting plate and push down to clip in place.



8. Fix mounting plate (AU)

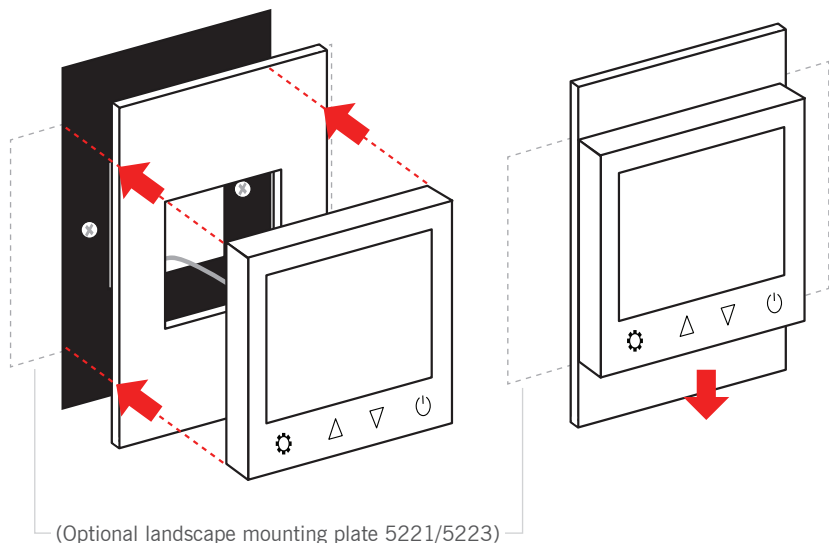
If you are installing the AU version the wiring diagram is the same, but the fixing plate works differently. Release the mounting plate from the case and use a screwdriver to fix the mounting plate to the wall. Pull all cables through and connect as shown on the wiring diagram on p10.



Installing your thermostat

9. Fix thermostat in place (AU)

Clip the plastic mounting plate over the mounting plate and locate the thermostat onto the mounting clips. Push down to secure the thermostat in place.



Installing your thermostat

10. Switching on your system

It is important that all adhesives and grouting is dry and fully cured before you switch on your underfloor heating.

Most adhesives take between 7 to 10 days to cure. Follow manufacturer guidelines.

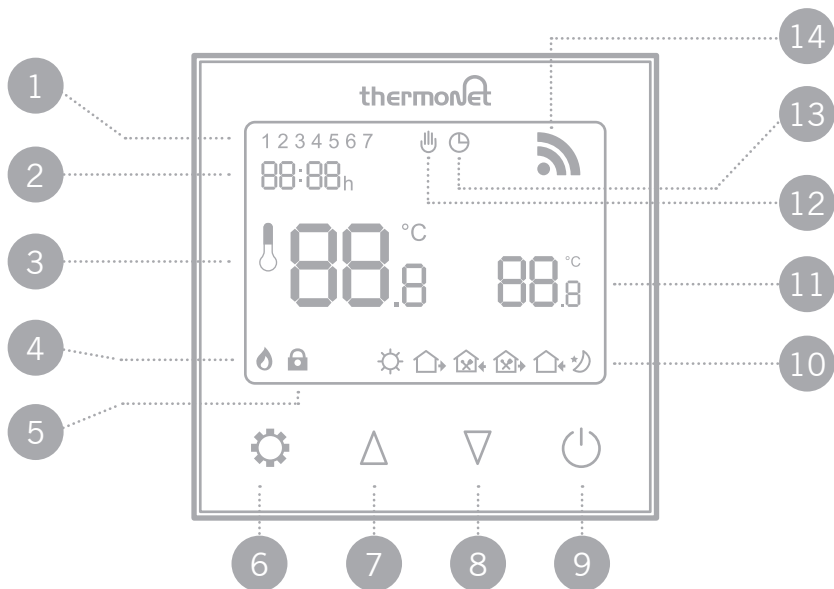
The temperature of your underfloor heating should be increased gradually to avoid thermal shock in the floor. Start at 15°C and work up to your desired temperature 2-3°C per day.

Observe any maximum temperature guidelines from your floor manufacturer.



**Wait for
7 - 10 Days
before you
switch on**


User interface




- | | | |
|-------------------------|-----------------|------------------------|
| 1. Day indicators | 6. Mode button | 11. Set temperature |
| 2. Time | 7. Up arrow | 12. Manual mode icon |
| 3. Measured temperature | 8. Down arrow | 13. Schedule mode icon |
| 4. Heating on icon | 9. Power button | 14. Wifi icon |
| 5. Lock icon | 10. Event icons | |




Setup




Setting the day and time

Switch the unit off by pressing .

Press and hold  for 7 seconds until the time begins to flash.

Use  and  to select the correct minute.


Press  to switch to hours and use  and  to select the correct hour.

Press  again to edit the day and use  and  to select the correct day. 1 = Monday & 7 = Sunday.

Press  to save your settings.

NOTE: The thermostat will switch off after 30 seconds of inactivity and any unsaved settings may be lost

Heating modes

When your thermostat is on you can tap  to switch between Manual and Schedule heating modes.

Manual mode

Your thermostat will simply maintain the temperature you set manually until you ask it to do something else!

Schedule mode

Your thermostat will follow a heating schedule that you can set by following the instructions on page 20.

Manual override

If you change the set temperature while the thermostat is running the heating schedule, the new selected temperature will be maintained until the next scheduled temperature change. The thermostat will then revert to the preset heating schedule.

Energy saving features

Adaptive Start

With the Adaptive Start feature enabled, Thermotouch will measure how long it takes for your individual floor to heat up and ensure the target temperature is achieved at the set time.

So if you set your heating schedule to 24°C at 07:00, the floor will be at 24°C at 07:00. No need to set the heating to come on early!

Thermotouch starts learning from the first time you enable the heating schedule. It turns on an hour early to start with and gradually optimises the heat up time over 7 days.







Open Window Detector







When the Open Window Detection feature is enabled, Thermotouch can detect sudden drops in temperature and will switch off your heating to eliminate wasted energy.








Thermotouch will come back on after 30 minutes, provided the temperature has stabilised.





You can activate and adjust these features in the advanced settings menu. See page 24.

Set up your heating schedule




1. Turn the thermostat on by pressing .
1. Press  to switch to  mode before you start.
2. Press  to switch the unit off.
3. Press and hold  for 7 seconds to edit your schedule. If you have already set the clock press  x3 to skip it.







4. Use  and  to adjust the start time for event 1 and press  to save. Now use  and  to select the desired Comfort (or "On") temperature between 20 - 28°C depending on your floor finish*. 
Event 1
Wake Up







5. Press  to advance to event 2 and use  and  to select the desired time to switch to a lower temperature. 
Event 2
Out
6. Press  to save. Now use  and  to select the desired Eco (or "Off") temperature between 16 - 20°C.







7. Press  to advance to event 3 and use  and  to select the desired time to switch to a higher temperature. 
Event 3
Home


Set up your heating schedule

8. Press  to save. Now use  and  to select the desired Comfort (or “On”) temperature between 20 - 28°C.

9. Press  to advance to event 4 and use  and  to select the desired time to switch to a lower temperature.
10. Press  to save. Now use  and  to select the desired Eco (or “Off”) temperature between 16 - 20°C.

11. Press  to advance to event 5 and use  and  to select the desired time to switch to a higher temperature.
12. Press  to save. Now use  and  to select the desired Comfort (or “On”) temperature between 20 - 28°C.

13. Press  to advance to event 6 and use  and  to select the desired time to switch to a lower temperature.
14. Press  to save. Now use  and  to select the desired Eco (or “Off”) temperature between 16 - 20°C.

15. Press  to activate your schedule and you’re done!



Event 4
Out



Event 5
Home




Event 6
Sleep

TIP! If you don't want to use all of the available heating events you can skip one by setting the same temperature as the previous event.

Advanced settings


Adjusting the advanced settings

To access the settings, switch the unit off by pressing .

Press and hold  and  together for 7 seconds.

Press  to cycle between settings 01 to 18.

Use  and  to adjust the settings.

Switch the unit on by pressing  to save your settings.

Advanced settings

MENU	DESCRIPTION	RANGE	DEFAULT
01	Temperature calibration	-8°C ~ 8°C	0°C
02	Maximum set point	5°C ~ 80°C	35°C
03	Minimum set point	5°C ~ 80°C	5°C
04	Sensor mode	IN (Ambient), OUT (Floor), ALL (Ambient with floor limit)	OUT
05	Frost protection	5°C ~ 15°C or Off	5°C
06	Floor temperature display	(ALL sensor mode only)	
07	Temperature limit	10°C ~ 80°C (For ALL mode only)	35°C
08	Status after power failure	LA: On as before, OF: Off	LA
9	Factory reset	Re (yes)	
10	Wifi Connection Mode	Press 'Up' to activate	
11	Backlight timer	10secs - 300secs (5mins)	20s
12	Backlight brightness level	1 (min), 2, 3, 4 (max)	4

Advanced settings continued

MENU	DESCRIPTION	RANGE	DEFAULT
13	Adaptive Start	1 (On), 0 (Off)	Off
14	Open Window Detection	1 (On), 0 (Off)	Off
15	OWD Off Time	2 - 30 minutes	15 mins
16	OWD Temperature Drop Limit	2, 3 or 4°C	2°C
17	OWD Heating on again after	10 - 60 minutes	30 mins
18	Software version	5024	

NOTE: The thermostat will switch off after 30 seconds of inactivity and any unsaved settings may be lost






Download and install the MyThermotouch app on your smartphone or tablet



Search for "MyThermotouch" to download the free app

Wifi setup

Connect your thermostat:



1. Ensure your smartphone is connected to the WiFi network that you want to connect your thermostat to.
2. Switch the thermostat off by pressing . Press and hold  and  together for 7 seconds to access the advanced settings.
3. Press  to scroll to menu item 10 and press  to switch on wifi. Your thermostat will return to the main screen and search for your network. Wifi icon will flash.
4. On the app, press the plus icon in the top right corner to add a new device to your network.
5. Now enter your wifi password and press Connect (password must be alphanumeric only).
6. The thermostat will now connect to your network.
7. Repeat steps 1-7 for additional thermostats.


Technical data



Supply voltage	230V/240V 50/60Hz
Maximum load	16A
Backup storage	EEPROM (approx. 1 year backup)
Temperature range	5 ~ 80°C (0.5°C increments)
Accuracy	±0.5°C
Sensor rating	NTC 10kΩ @ 25°C
Consumption	2W
Warranty	3 years
IP rating	IP30
Width	85mm
Height	85mm
Depth	46mm (31mm in wall)

Factory reset & key lock

Locking the keys

To lock the keys press and hold  and  together for 7 seconds.

The  icon will appear when the keys are locked and the keys will not function.

To unlock the keys press and hold  and  together for 7 seconds.

Factory reset

Find menu item 09 in the advanced settings (page 23).

Press  so that the screen displays YE and then press .

The thermostat will switch off and reset to factory settings after 10 seconds. This will totally erase the time, date, heating program and any adjusted settings.

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