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Thermotouch 4.3dC

Dual Control Thermostat

Installation & User Guide

thermotouch
DUAL CONTROL SYSTEM

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Compatibility

Thermotouch 4.3dC is compatible with almost all electric underfloor heating (UFH) systems available.

Thermotouch can replace your existing underfloor heating thermostat and is compatible with many of the most popular thermostat brands' floor sensor probes including those rated at:

- 6.8k Ω @ 25°C
- 10k Ω @ 25°C
- 12k Ω @ 25°C
- 15k Ω @ 25°C
- 33k Ω @ 25°C

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:

- Thermotouch 4.3dC thermostat
- Floor sensor probe (3m)
- Floor sensor conduit (3m)
- Fixing screws
- Manual and warranty information

You will also need:

- Electrical screwdrivers
- Deep electrical back box
- Electric testing meter

Before you start

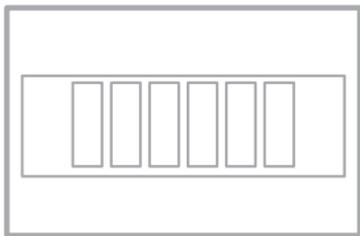
Thermotouch 4.3dC should be:

- Installed 1.2 - 1.5m from the floor
- On an interior wall
- In an area 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 clear, temperature representative area of the floor.
- In an open area of the room
- Installed by a professional, in line with current IEE 17th Edition Part P regulations and local standards.

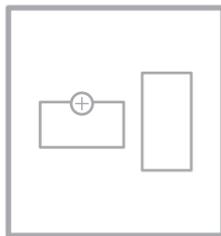
Installing Thermotouch

1. Switch off mains power

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



Fuse Box



Fused Switch

Installing Thermotouch

2. Choose a location

At this stage it is likely that an 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 Thermotouch

3. Maximum distances

Thermotouch 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.

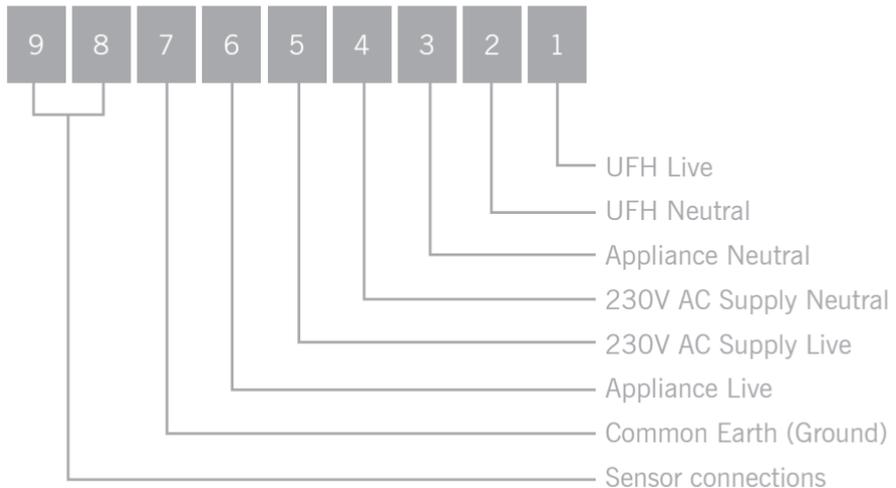


Installing Thermotouch

4. Wiring diagram

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

The floor temperature sensor is not polarity sensitive.



Installing Thermotouch

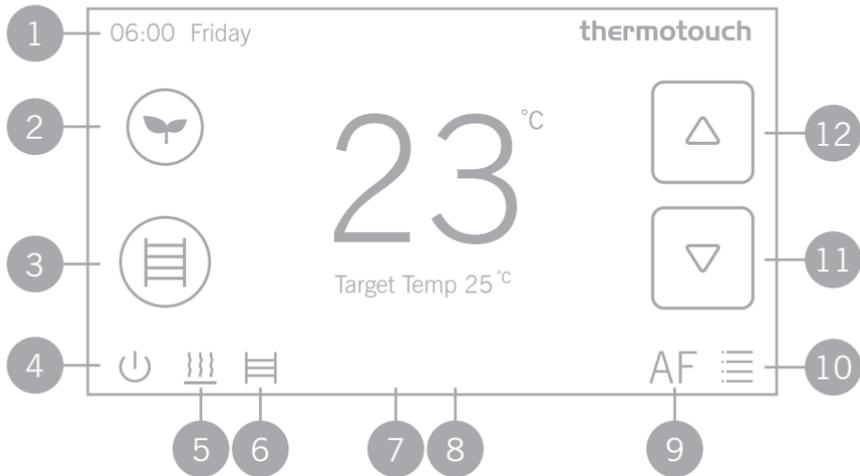
5. Fix to the wall

Use a small flat screwdriver in the groove on the underside to lever the face plate away from the back plate.

Carefully disconnect the ribbon cable and align Thermotouch with the mounting positions on the pre installed back box.

Fix in place with the screws provided. Now connect the ribbon cable and clip the face plate back into position.

User interface



- | | |
|----------------------|-------------------------|
| 1. Time & date | 7. Measured temperature |
| 2. Heating mode | 8. Target temperature |
| 3. Appliance mode | 9. Sensor mode icon |
| 4. Power | 10. Menu |
| 5. UFH on icon | 11. Down arrow |
| 6. Appliance on icon | 12. Up arrow |

Set the time and date

When you first switch Thermotouch on, you will need to set the current time and date.

You can do this by pressing Menu  and then Date & Time .

Use the arrows to select the right date and time and then press confirm  to save.



Heating schedule

Setting up a schedule ensures energy efficiency and convenience by automatically changing the temperature of your underfloor heating system.

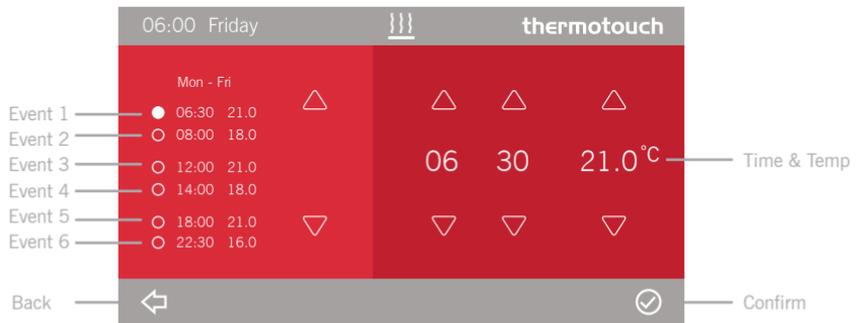
Mon - Fri are all set to the same schedule. Saturday and Sunday are both programmed independently.

There are 6 heating events for every day. Most people treat them as 3 on/off cycles.

Start setting up your underfloor heating schedule on page 14.

Heating schedule

1. Press menu.
2. Press Schedule.
3. Press UFH schedule.
4. Press Mon-Fri.
5. The first heating event for the day is already selected.
6. Set the time you want your heating to come on in the morning and the temperature you want your floor to heat up to, using the up and down arrows.



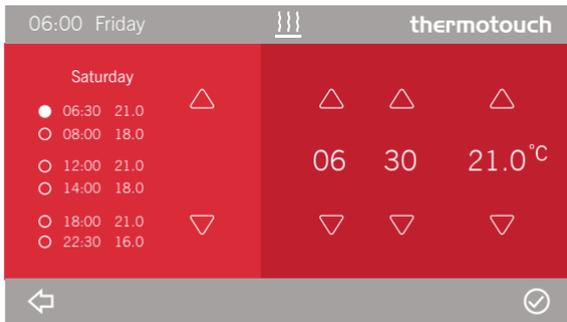
Heating schedule

7. Press confirm to save your settings.
8. Use the left arrows again to select heating event 2 and set the time you would like your underfloor heating to switch off.
9. Now use the arrows to set your Eco temperature. This is a low temperature that means your heating is effectively off. We recommend around 6°C less than the temperature you set when the floor is warm. Press confirm to save your settings.
10. Repeat steps 8 - 9 for heating events 3 & 4. If you don't want your heating on in the afternoon set events 3 & 4 to the low Eco (or off) temperature.
11. Repeat steps 8 - 9 for heating events 5 & 6. If you don't want your heating on in the evening set events 5 & 6 to the low Eco (or off) temperature.

Heating schedule

12. Now you need to set the heating schedule for the weekend. Press back and then select Saturday.
13. Repeat steps 5 - 9 to set the on/off times and temperatures for Saturday. Press confirm to save your settings.
14. Press back, select Sunday and repeat the steps to set a heating schedule for Sundays.

Press confirm to save your settings and press back to go back to the menu and home screen.



A typical heating schedule

A typical heating schedule for a working family would look something like this. The heating is on in the morning and evening during the weekdays, and then at weekends it's on in the morning, for a period in the afternoon and then again in the evening.

You can adjust the time and temperature of any of these heating events to suit your lifestyle.



Appliance schedule

Copy your heating schedule to an appliance (such as an electric heated towel rail or mirror de-mister) that is connected to your Thermotouch.

When you have finished setting your UFH schedule press Copy and then OK.

This will copy all of the on/off times from your UFH schedule to the appliance schedule.

Now select Mon-Fri, use the arrows to select the heating events and set the appliance to on or off. You can also adjust the times if you want to.

There is no temperature setting for the appliance because it is not connected to a temperature sensor.

Appliance controls

You can control another appliance, such as an electric heated towel rail from the home screen.

On

The appliance will stay on until you turn it off again.



Schedule

The appliance will switch on and off according to the appliance heating schedule



Appliance boost

Switches the appliance on for one hour, 2 hours or 4 hours and then back to the appliance heating schedule.



Heating modes

Eco

Maintains a low temperature to save money on energy bills while keeping the chill off your floor.



Comfort

Maintains a higher temperature that will keep you warm on a cold day!



Both of these modes can be set to stay on for 1, 2 or 4 hours, until the next heating schedule event, or for infinity (or until you change it manually).

Heating modes

Schedule

Thermotouch will adjust your UFH according to your pre set heating schedule.

You can manually override the schedule using the up and down arrows to select a different temperature.

Thermotouch will maintain the boost temperature until the next scheduled heating event.



Manual

You can manually select any temperature and must make all temperature changes.



Holiday

Maintains a low frost protection temperature while you are away. Your heating system is off, but will switch on automatically if the temperature gets too cold.



Settings

Time & date

Set the current date and time.



Heating schedule

Set the automatic schedule for your underfloor heating and an additional appliance.



Display settings

Change the backlight timer as well as the minimum brightness. Select the home screen wallpaper from 8 different colours and set the screen orientation to portrait or landscape.



Settings

Pre set temperatures

Pre set comfort, eco and holiday temperatures.



Sensor mode

Select either floor, ambient or ambient with floor limit sensor modes. Ambient with floor limit will react to the ambient temperature primarily, but will switch off if the floor temperature gets to high.



Advanced settings

Floor and ambient temp calibration, Sensor calibration, switch rail and UFH controls on and off, change the language, factory reset, set your temperature limits. More detail on sensors on p24.



Compatible sensor probes

Thermotouch can be calibrated to work with some of the most popular sensor probes available.

Tep 6.8k Ω @ 25°C

THE 10k Ω @ 25°C (Default)

ENS 10k Ω @ 25°C

OJ 12k Ω @ 25°C

Dev 15k Ω @ 25°C

Ebe 33k Ω @ 25°C

Replacing an existing thermostat?

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

Technical data

Supply voltage	230V 50/60Hz
Maximum load	16A (20A combined)
UFH relay	16A (3600W)
Appliance relay	5A (1125W)
Temperature range	5 ~ 35°C
Ambient	0 ~ 50°C
Compatible sensors*	6.8k Ω , 10k Ω , 12k Ω , 15k Ω , 33k Ω
Accuracy	$\pm 0.5^\circ\text{C}$
Warranty	3 years
IP rating	IP30
Width	129mm
Height	88mm
Depth	48mm (31mm in wall)

*All quoted sensor resistance ratings are measured at 25°C.

Notes

Notes

Service and support

Thermogroup UK

0800 019 5899

01622 689 440

www.thermogroupuk.com

Thermogroup AU

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Thermogroupuk



SUSTAINABLE HEATING SOLUTIONS