5245 / 5245W / 5246 / 5246W

Thermotouch Dual

Dual Control Thermostat

Installation & User Guide

January 2018

Search for “MyThermotouch” to download the free app

thermotouch

UNDERFLOOR HEATING CONTROLS

Contents

Compatibility

Thermotouch 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:

- 6.8kΩ @ 25°C
- 10kΩ @ 25°C
- 12kΩ @ 25°C
- 15kΩ @ 25°C
- 33kΩ @ 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 thermostat
- Floor sensor probe (2m)
- Floor sensor conduit (3m)
- Fixing screws
- Manual and warranty information

You will also need:

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

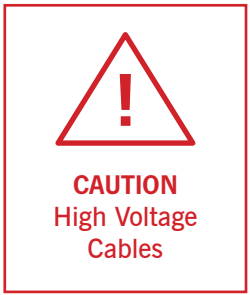
Before you start

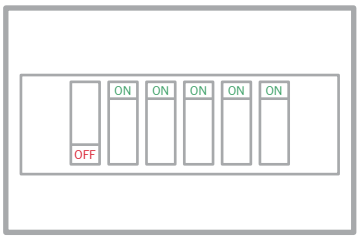
Thermotouch should be:

- 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.
- Set to floor sensing mode wherever possible
- In an open area of the room
- Installed by a professional, in line with current IEE 17th Edition Part P regulations and local standards.

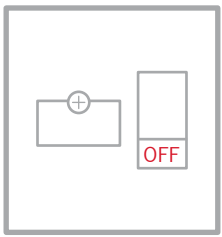
1. Switch off mains power

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

2. Choose a location

At this stage it its 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.

3. Maximum distances

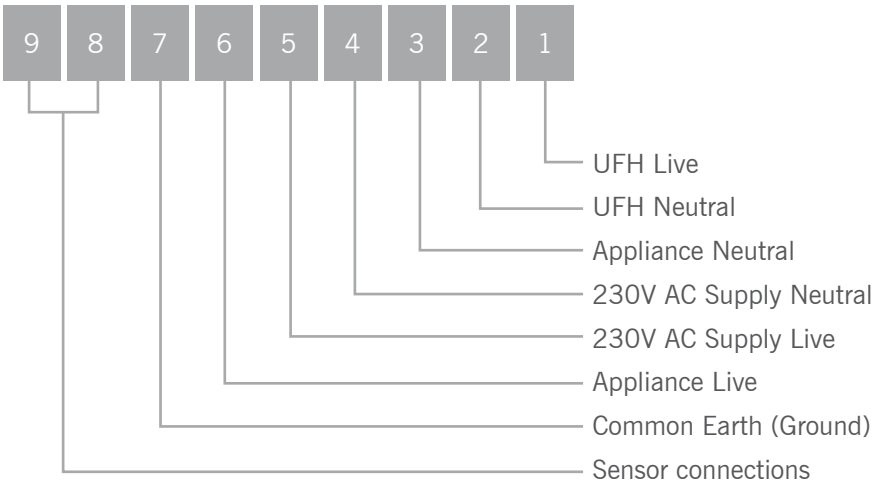
Thermotouch can be installed up to 50m away from the underfloor heating system it is controlling, provided that the floor sensor is used to control the temperature.

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

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.



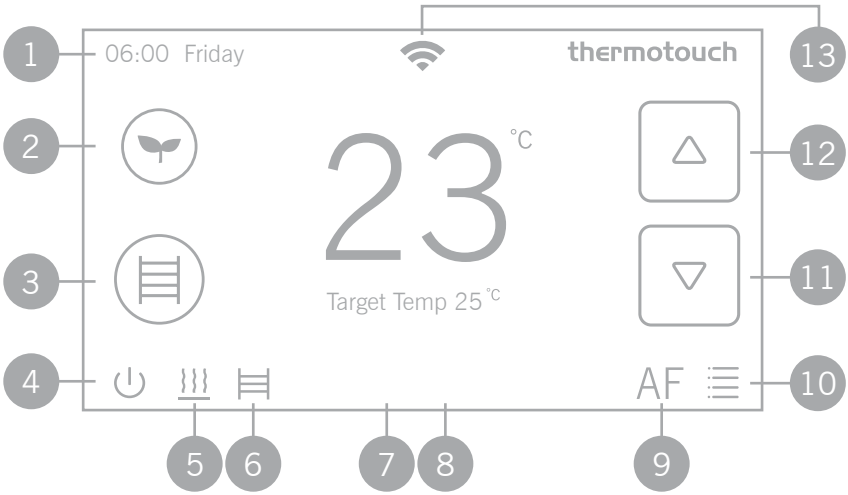
5. Fix to the wall

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
2. Heating mode
3. Appliance mode
4. Power
5. UFH on icon
6. Appliance on icon
7. Measured temperature
8. Target temperature
9. Sensor mode icon
10. Menu
11. Down arrow
12. Up arrow
13. Wifi indicator

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 (p27)

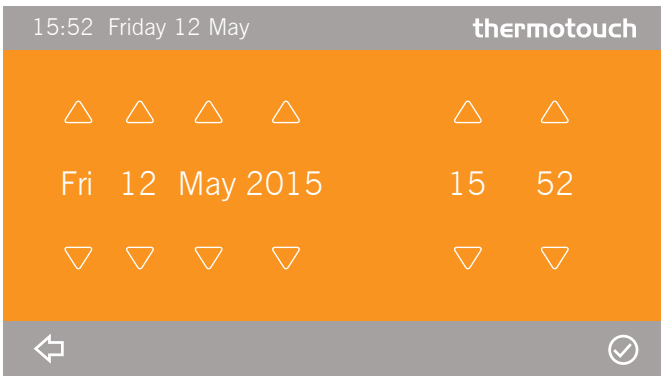
Floor and ambient temp calibration, Sensor calibration, switch rail and UFH controls on and off, change the language, factory reset, set your temperature limits. More detail on sensors on p30.

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.

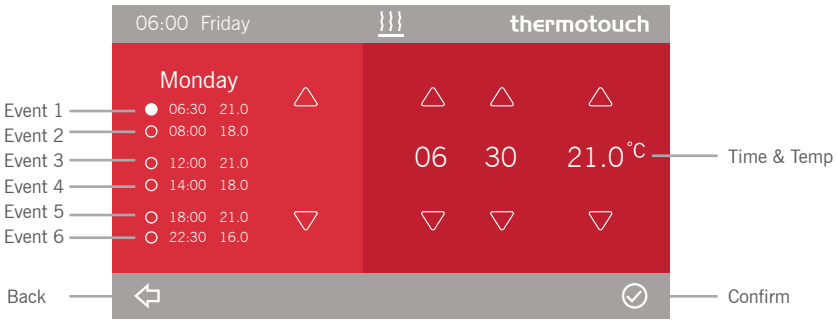
Each day of the week can be programmed independently.

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 16.

Heating schedule

1. Press menu
2. Press schedule
3. Press UFH schedule
4. Select the day you wish to edit
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.



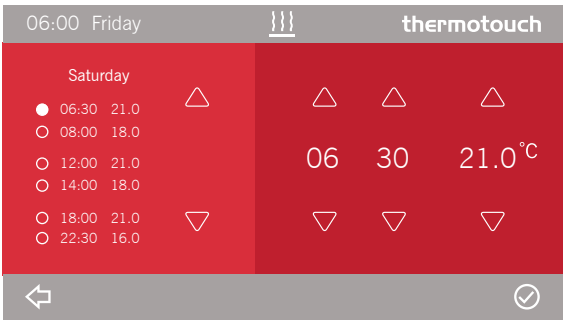
Heating schedule

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 rest of the week. Press back ⇦ and then select Tuesday.
13. Repeat the process to set the on/off times and temperatures for Tuesday. Press confirm ⊘ to save your settings.
14. Press back ⇦, select the day and repeat the process for the remaining days of the week.

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



A typical heating schedule

Everyone is different, but typical heating schedule for a working family would have the heating on in the morning and evening during the week. At weekends heating can be 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, press OK and then press confirm to save your settings ⊘.

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

Now select a day, 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

Thermotouch has several preset heating modes that can be adjusted in the settings menu.

Eco

Maintains a low temperature, usually between 16 -18°C, to save money on energy bills while keeping the chill off your floor.

Comfort

Maintains a higher temperature, usually between 22 - 27°C, that will keep you warm on a cold day!

Both of these modes can be set to stay on forever until you change it, for a 1, 2 or 4 hour boost, or until the next heating schedule event.

Heating modes

Schedule

Thermotouch will follow the temperatures and times set up in your 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 yourself.

Holiday

Maintains a low frost protection temperature, usually between 5 - 10°C, while you are away. Your heating system is off, but will switch on automatically if the temperature gets too cold.

Wifi setup (5245W & 5246W only)

Download and install the MyThermotouch app on your smartphone or tablet

Search for “MyThermotouch” to download the free app

Ensure your smartphone is connected to your home wifi network before you start!

Wifi setup (5245W & 5246W only)

Connect your thermostat:

1. Ensure your smartphone or tablet is connected to your home wifi network and open the MyThermotouch app.
2. Press the plus icon in the top right corner of the app to add a thermostat to your network.
3. Press the WIFI icon on your thermostat and then press OK to switch the thermostat into WIFI connection mode.
4. Enter your WIFI network password and press Connect.
5. The thermostat will now connect to your network.
6. Repeat steps 1-6 for additional thermostats.

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 28.**

Adjusting the advanced settings

To access the settings press Menu, then the green Settings icon.

In this menu you can set up and control all of the more advanced settings for your Thermotouch Thermostat.

Advanced settings

MENU	DESCRIPTION	RANGE	DEFAULT
01	Maximum Temp Limit	5°C ~ 40°C	27°C
02	Minimum Temp Limit	5°C ~ 15°C	5°C
03	Maximum Set Temperature	5°C ~ 40°C	35°C
04	Floor Temperature Calibration	-10°C ~ 10°C	0°C
05	Ambient Temp. Calibration	-10°C ~ 10°C	0°C
06	Sensor Calibration	See page 30	10kΩ
07	UFH Control	ON, OFF	OFF
08	Rail Control	ON, OFF	OFF
09	Language	English, French, German	English

Advanced settings continued

MENU	DESCRIPTION	RANGE	DEFAULT
10	Factory reset	Re (yes)	
11	Adaptive Start	1 (On), 0 (Off)	Off
12	Open Window Detection	1 (On), 0 (Off)	Off
13	OWD Off Time	2 - 30 minutes	15 mins
14	OWD Temperature Drop Limit	2, 3 or 4°C	2°C
15	OWD Heating on again after	10 - 60 minutes	30 mins

Compatible sensor probes

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

Tep	6.8kΩ @ 25°C
THE	10kΩ @ 25°C (Default)
ENS	10kΩ @ 25°C
OJ	12kΩ @ 25°C
Dev	15kΩ @ 25°C
Ebe	33kΩ @ 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	230/240V 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*	6.8kΩ, 10kΩ, 12kΩ, 15kΩ, 33kΩ
Accuracy	±0.5°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.

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