Thermotouch 7.6iG

Programmable thermostat for electric underfloor heating

Installation & User Guide

thermotouch
UNDERFLOOR HEATING CONTROLS

Contents

Compatibility

The Thermotouch 7.6iG is compatible with Thermogroup NTC 10K floor sensor probes.

NTC 10kΩ @ 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
- Portrait mounting plate (AU only)

You will also need:

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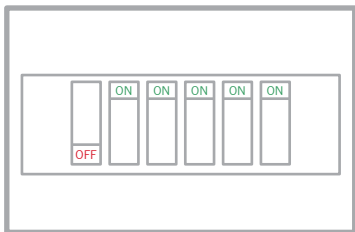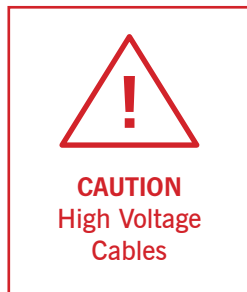- Electrical test meter

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
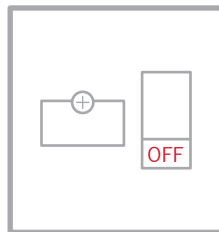
1. Switch off mains power

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.

⚠️

CAUTION
High Voltage
Cables

Fuse Box

Fused Switch

2. Installation 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

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.

4. Release mounting plate (UK)

Use a flat screwdriver to press is the catch and push the fascia down as shown to release the clips holding the back plate and the thermostat fascia together. Disconnect the white ribbon cable.
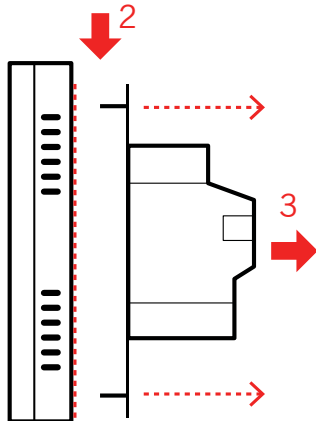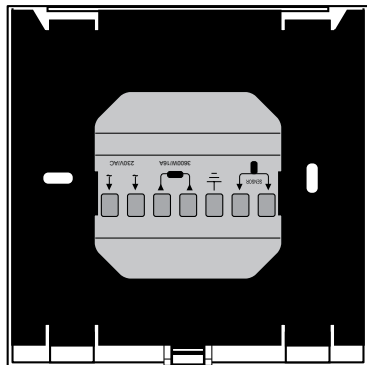
Do not try to force the back plate off without first pushing the fascia down to relase the clips!

9

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.

| 7 | 6 | 5 | 4 | 3 | 2 | 1 |

230/240V AC Supply Live

230/240V AC Supply Neutral

UFH Neutral (Load N)

UFH Live (Load L)

Earth (Ground)

Sensor connections
(No polarity)

6. Fix mounting plate in position (UK)

Use a cross-head screwdriver to fix the mounting plate to the back box in the wall. Now you can connect the white ribbon cable to the fascia.
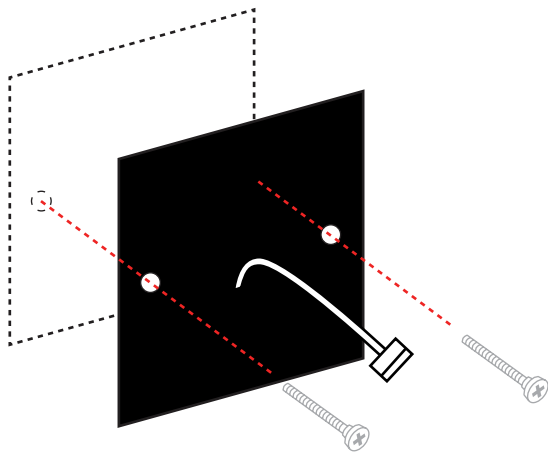
7. Fix thermostat fascia in place (UK)

Locate the thermostat onto the mounting plate and push down to clip in place.
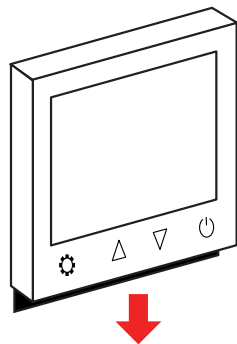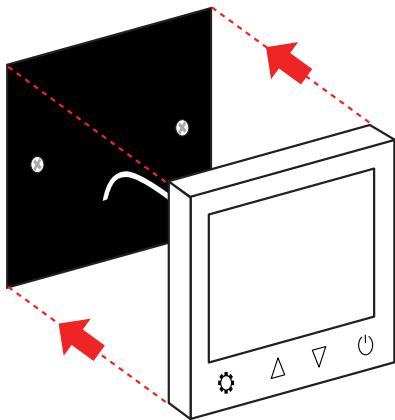
8. Fix mounting plate (AU)

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 cross-head screwdriver to fix the mounting plate to the wall. Pull UFH cold tail, mains and sensor cables through and connect cables as shown on p10.

(Optional landscape mounting plate 5221/5223)
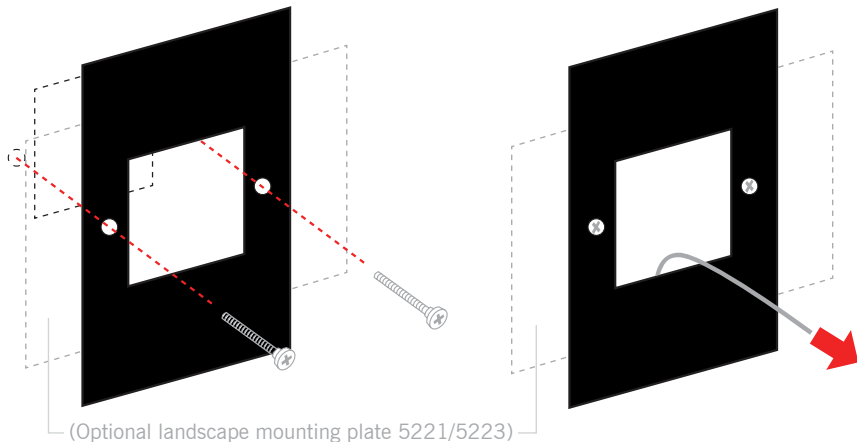
9. Fix thermostat in place (AU)

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

(Optional landscape mounting plate 5221/5223)
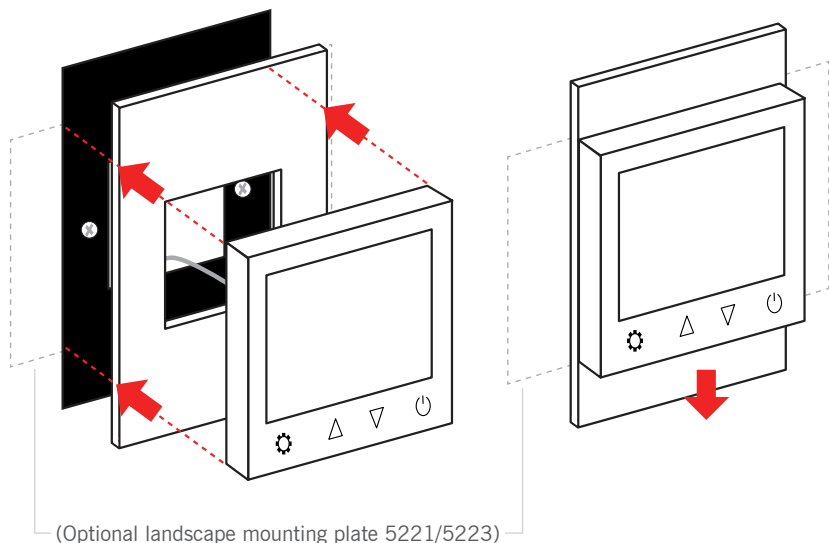
10. Switching on your system

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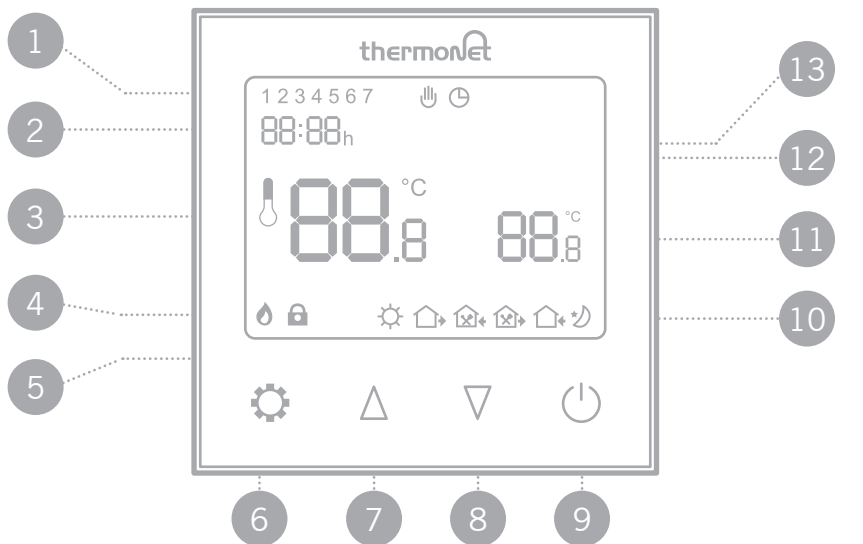
1. Day indicators
2. Time
3. Measured temperature
4. Heating on icon
5. Lock icon
6. Mode button
7. Up arrow
8. Down arrow
9. Power button
10. Event icons
11. Set temperature
12. Manual mode icon
13. Schedule mode icon

Setting the date and time

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.

Heating schedule settings

In the advanced settings (see page 22) you can choose between 3 different heating schedules.

1234567 -Mon - Sun the same. Every day will follow the same heating pattern of 6 events.

123456 - **Mon - Sat** the same (6 heating events per day) and Sun separate (6 heating events).

12345 - **Mon - Fri** the same (6 heating events per day) with Sat and Sun separate (6 heating events each).

What is a heating event?

A heating event is an opportunity to change the temperature in your heating schedule. Most people use 3 on and 3 off in a 6 event day, and 2 on with 2 off in a 6 event day (weekends).

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.

6. Press ⚙ to save. Now use △ and ▽ to select the desired Eco (or "Off") temperature between 16 - 20°C.

⌂→

Event 2
Out

7. Press ⚙ to advance to event 3 and use △ and ▽ to select the desired time to switch to a higher temperature.

🏠←

Event 3
Home

*Check with your floor finish manufacturer for recommended maximum temperatures

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.

Event 4
Out

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.

Event 5
Home

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.

Event 6
Sleep

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!

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 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 11.

Use △ and ▽ to adjust the settings.

Switch the unit on by pressing ⏻ to save your settings.

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

Advanced settings

MENU	DESCRIPTION	RANGE	DEFAULT
01	Temperature calibration	-8℃ ~ 8℃	0℃
02	Maximum set point	5℃ ~ 80℃	35℃
03	Minimum set point	5℃ ~ 80℃	5℃
04	Sensor mode	IN (Ambient), OUT (Floor), ALL (Ambient with floor limit)	OUT
05	Frost protection	5℃ ~ 15℃ or - (Off)	5℃
06	Floor temperature display	(ALL sensor mode only)	
07	Temperature limit	10℃ ~ 80℃ (ALL mode only)	35℃
08	Heating schedule setting	1234567 (7 days the same) 123456 (6 days the same +1) 12345 (5 days the same + 2) No numbers - Program off	
09	Status after power failure	LA: On as before, OF: Off	LA
10	Factory reset	rE (yes)	
11	Backlight timer	10secs - 300secs (5mins)	20s
12	Backlight brightness level	1 (min), 2, 3, 4 (max)	4
13	Software version	5220: 5100, 5220A: 7020 5226: 7024, 5226A: 7025	

Technical data

Supply voltage	230V/240V 50/60Hz
Maximum load	16A
Backup storage	EEPROM (approx. 1 year backup)
Temperature range	5 ~ 80℃ (0.5℃ increments)
Accuracy	±0.5℃
Sensor rating	NTC 10kΩ @ 25℃
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 $\triangle$ and $\triangledown$ 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 $\triangle$ and $\triangledown$ together for 7 seconds.

Factory reset

Find menu item 10 in the advanced settings (page 23).

Press $\triangle$ and then ⏻. The thermostat will reset to factory settings after 7 seconds. This will totally erase the time, date, heating program and any adjusted settings.

Notes

Notes

Service and support

Thermogroup UK
Bridge House
Hop Pocket Lane
Paddock Wood
Kent TN12 6DQ
UNITED KINGDOM

0800 019 5899
01622 689 440
www.thermogroupuk.com
sales@thermogroupuk.com

Thermogroup EU
Pinnacle House
Newtown Cross
The Ward. Dublin 11
D11 K27C
Rep. of IRELAND

01 866 0584

www.thermogroupeu.com
sales@thermogroupeu.com

Thermogroup AU
Thermogroup Pty Ltd
PO Box 822
Leeton NSW 2705
AUSTRALIA

1300 368 631

www.thermogroup.com.au
sales@thermogroup.com.au

Watch the video guide on our website
www.thermogroupuk.com   www.thermogroup.com.au

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That little bit extra...