Thermotouch Manual Glass

Manual thermostat for electric underfloor heating

Installation & User Guide

Thermogroup

That little bit extra...

thermotouch

INTELLIGENT HEATING CONTROLS

Contents

Compatibility

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

NTC 10k Ω @ 25°C

If your existing floor probe is from another thermostat manufacturer and 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:

- Manual thermostat (5215 or 5216)
- Floor sensor probe (3m)
- Floor sensor conduit (2m)
- Fixing screws
- Installation guide
- Deep electrical back box

You will also need:

- Electrical screwdriver
- Electrical test meter

Before you start

Your thermostat should be:

- Installed 1.2 - 1.5m from the floor
- On an interior 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 qualified electrician, in line with current electrical regulations and relevant local standards

Installing your thermostat

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.

CAUTION
High Voltage
Cables
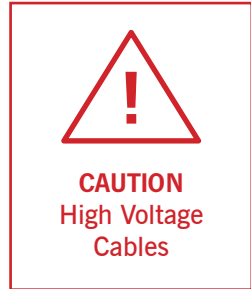
Installing your thermostat

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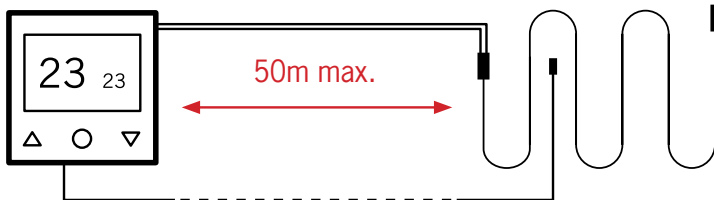
3. Maximum distances
Your thermostat can be installed up to 50m away from the underfloor heating system it is controlling, provided that the floor sensor is used to control the temperature.

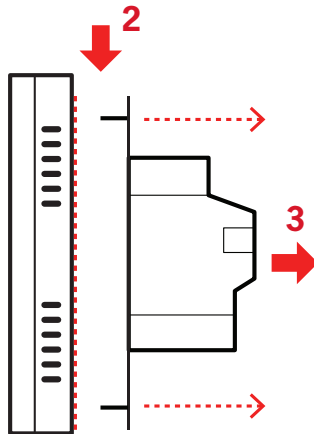Underfloor heating cold tails and floor sensor probes can be extended up to 50m.
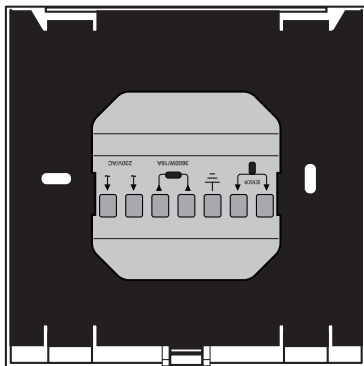
Connect multiple heaters to the thermostat in parallel.

4. Release mounting plate

Use a flat screwdriver to press in the catch (1) and push the fascia down as shown (2) to release the clips holding the back plate and the thermostat fascia together. Disconnect the white ribbon cable.
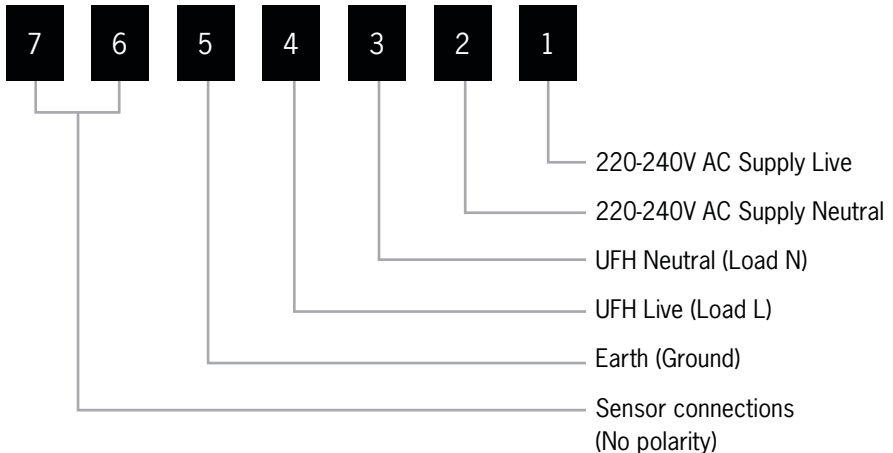

Do not try to force the back plate off without first pushing the fascia down to relase the clips!

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.

7	6	5	4	3	2	1

- 220-240V AC Supply Live
- 220-240V AC Supply Neutral
- UFH Neutral (Load N)
- UFH Live (Load L)
- Earth (Ground)
- Sensor connections (No polarity)

Installing your thermostat
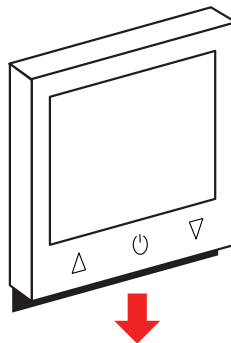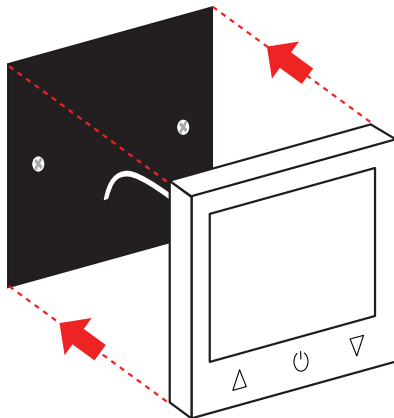
6. Fix mounting plate in position
Use a cross-head screwdriver to fix the mounting plate to the back box in the wall. Now you can connect the white ribbon cable to the fascia.
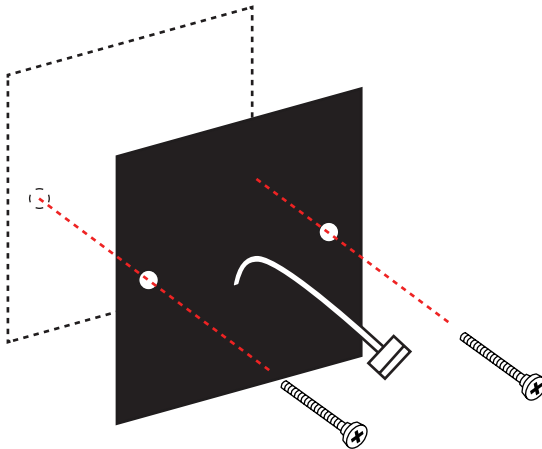
Installing your thermostat

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

Installing your thermostat

8. 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**

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 12.

Use △ and ▽ to adjust the settings.

When you are finished, leave the thermostat idle for 30 seconds. It will automatically save your settings and switch off.

Switch the unit on by pressing ⏻ to continue using the thermostat with your new 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	35°C
07.	Temperature limit	10°C ~ 80°C (ALL mode only)	35°C
08.	Status after power failure	LA: On as before, OF: Off after power failure	LA
09.	Software version	5215: 5101 V1.1 5216: 5101 V1.1	
10.	Factory reset	rE (yes)	
11.	Backlight timer	10 secs - 300 secs (5 mins)	20s
12.	Backlight brightness level	1 (min), 2, 3, 4 (max)	4

User interface
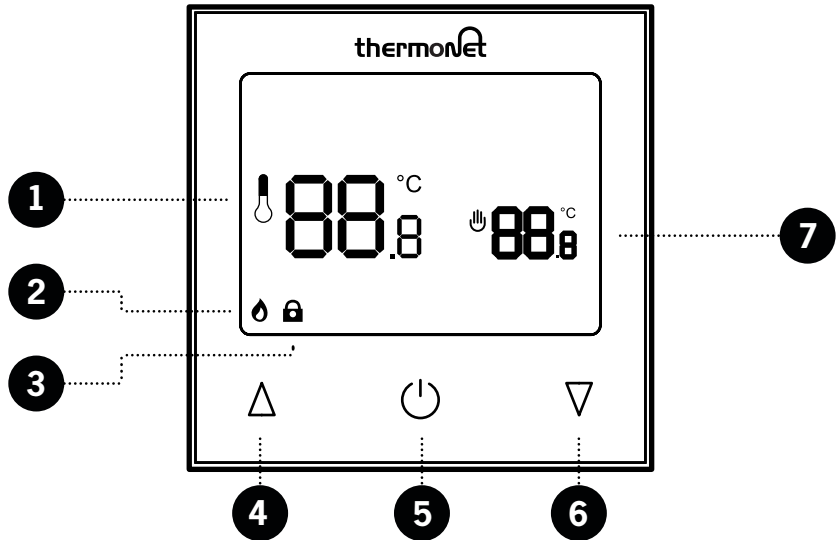
1. Measured temperature
2. Heating on icon
3. Lock icon
4. Up arrow
5. Power button
6. Down arrow
7. Set temperature

Technical data

Supply voltage	220-240V 50/60Hz
Maximum load	16A
Backup storage	EEPROM
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	IP20
Width	85mm
Height	85mm
Depth	46mm (31mm in wall)

Heating Schedule

Locking the keys
To lock the keypad press and hold Δ and ∇ together for 7 seconds.

The 🔒 icon will appear when the keypad is locked. None of the keys will function.

To unlock the keypad press and hold Δ and ∇ together for 7 seconds.

Factory reset
Find menu item 10 in the advanced settings.

Press Δ and then press ⏻.

The thermostat will switch off and reset to factory settings. This will totally erase the heating program and any adjusted settings.

Notes

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Service and Support

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