

# Thermonet underfloor heating programmable thermostat kit

### 2.9 TEMPORARY TEMPERATURE BYPASS

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The temperature setting can be temporarily adjusted when in Automatic mode. Use the ▼ ▲ buttons to set the new temperature, or the ☼ or ☾ buttons to select the comfort or economy settings.

The temperature will be maintained until the beginning of the next programmed schedule.

To return to the programmed settings, press the **Mode** button twice.

### 2.10 MEMORY BACK-UP

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In the event of a power failure, an internal circuit will maintain the programming and time settings for two hours. This back-up circuit does not require batteries.

### 3.0 TECHNICAL ADVICE

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If you have any questions regarding installation of your thermostat, please contact your distributor or call the **Thermonet Advice Line 091 1163 2003**

### 4.0 SPECIFICATION

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Model:	5265
Supply:	230 VAC 50/60Hz
Load:	16A maximum (resistive only)
Power:	3680W (NI) @ 230 VAC
Approval:	CE
Setting range:	5-28°C
Comfort default setting:	28°C
Economy default setting:	18°C
Holiday default setting:	10°C
Storage:	-20°C to 50°C
Enclosure class:	IP21
Clock protection:	2 hours

### 5.0 WARRANTY

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This product is warranted against material defects and workmanship in normal use for a period of two years from the date of the original purchase from an authorised distributor. During this period, Thermonet will repair or replace with a new or equivalent quality model at Thermonet's discretion, any product proven defective in normal use.

This warranty excludes any cost of removal, installation, accidental damage and transportation. In no event shall Thermonet be liable for consequential or incidental damages resulting from the installation of this product.

The defective product and original sales receipt must be returned to the selling distributor or shipped prepaid and insured to: Thermogroupuk, Advance House, Liphook Way, 20/20 Business Park, Maidstone ME16 0LQ.

For further information contact our customer support team on 08700 41 21 41.

## 1.0 KIT CONTENTS

Parts included:

- 1 x Thermostat
- 1 x Wall plate
- 2 x Mounting box screws
- 1 x Floor temperature sensor with 3m flex
- 1 x Floor temperature sensor conduit kit

Parts you will need:

- 1 x Single gang flush mounting box
- For solid walls use - Thermonet stock no. 5275
- For drylined walls use - Thermonet stock no. 5276

## 2.0 INSTALLATION

**READ THIS DOCUMENT IN CONJUNCTION WITH THE THERMONET INSTALLATION GUIDE.**

This thermostat is designed to control Thermonet electrical floor heating. The resistive load must not exceed 3680 Watts (NI) @ 230 VAC (16 AMPS).

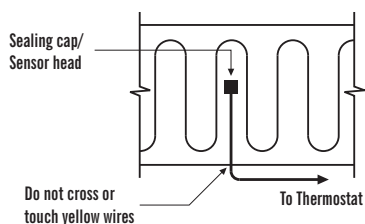
For areas exceeding 16 AMPS (Approximately 24m<sup>2</sup> Thermonet or 19m<sup>2</sup> Thermonet Extra) that require control by a single thermostat, a snubber/contactor must be used. Snubbers/contactors are available from your Thermonet distributor.

### 2.1 THERMOSTAT LOCATION

The thermostat should be located within the room to be heated, subject to current electrical regulations relating to bathrooms and wet areas. As the thermostat is floor sensing it can be installed outside the room or in a cupboard if necessary. For easy operation, choose a location about 1.3m above the floor. Should a remote location for the thermostat be necessary the system wiring can be extended up to 50m from the installation. Suitable extension wire is available from your Thermonet distributor.

### 2.2 FLOOR TEMPERATURE SENSOR LOCATION/INSTALLATION

Always install the floor temperature sensor in conduit. After laying out the heatmat(s), select a suitable position for the floor sensor.



#### Example of floor sensor location

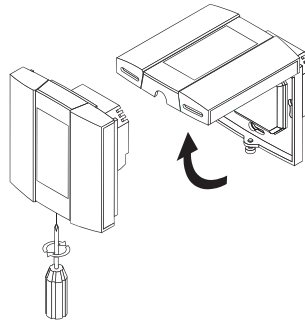
Mark the position of the floor sensor on the floor. Remove the surrounding heatmat(s) and cut a channel in the floor to accommodate the conduit. This will maintain the overall finished floor level. Ensure that the floor is clean before installation of heatmat(s).

Using a multimeter, measure the resistance between the two connection wires in the floor temperature sensor flex. For temperatures between 20°C and 30°C the resistance should measure between 8K Ohm and 12K Ohm. Check the resistance before and after installation.

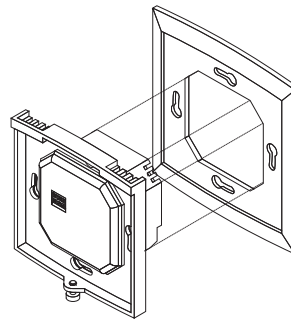
## 2.3 THERMOSTAT MOUNTING/WIRING

**Step 1** Unscrew and remove the thermostat front panel.

Note: The screw is captive and cannot be removed completely.

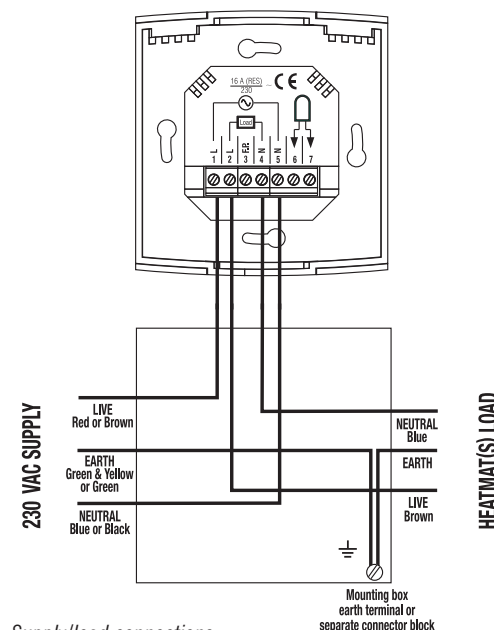


**Step 2** Check to make sure the base of the thermostat covers the single gang wall mounting box entirely. If not, clip the wall plate onto the back of the thermostat body.



**Step 3** Connect the 230 VAC supply wires to the thermostat.

230 VAC	WIRE COLOUR	CONNECT TO
LIVE	RED OR BROWN	TERMINAL L1
NEUTRAL	BLUE OR BLACK	TERMINAL N5
EARTH	GREEN & YELLOW OR GREEN	MOUNTING BOX EARTH TERMINAL OR SEPARATE CONNECTOR BLOCK



#### Supply/load connections

Floor temperature sensor not shown connected.

ALL ELECTRICAL WORK MUST CONFORM TO CURRENT IEE WIRING REGULATIONS AND BE CHECKED OR CARRIED OUT BY A QUALIFIED ELECTRICIAN. ELECTRICAL INSTALLATION WORK IN DWELLINGS IS SUBJECT TO THE BUILDING REGULATIONS PART P.

TURN OFF THE ELECTRICAL SUPPLY AT THE POWER DISTRIBUTION UNIT TO AVOID RISK OF ELECTRICAL SHOCK.

THE FLOOR TEMPERATURE SENSOR MUST BE PLACED IN CONDUIT TO FACILITATE REMOVAL, IF NECESSARY.

THE FLOOR TEMPERATURE SENSOR WIRE MUST NOT CROSS OR TOUCH ANY YELLOW HEATMAT WIRES.

**Step 4** Connect each of the heatmat(s) load wires to the thermostat.

THERMONET WIRE REFERENCE	CONNECT TO
BROWN	TERMINAL L2
BLUE	TERMINAL N4
EARTH BRAID	TWIST EARTH BRAIDS TOGETHER, SLEEVE AND CONNECT TO MOUNTING BOX EARTH TERMINAL OR SEPARATE CONNECTOR BLOCK

For installations of three or more heatmats, connect the connection wires to a junction box and take single feeds to terminals L2 and N4.

**Step 5** Connect the floor sensor wires to terminal 6 and terminal 7. (The floor sensor wires are not polarity sensitive.)

**Step 6** Configuration of options.

The thermostat has two option settings controlled by microswitches on the rear of the front panel.

Early start function.

This enables the thermostat to calculate the optimum start time to obtain the right temperature at the set time. The factory setting for this feature of 'OFF'. To enable this function set the microswitch 1 to the up position.

Temperature display °C/°F.

The temperature readout on the display can be either °C or °F. The factory setting for this feature is °C. To change to °F set the microswitch 2 to the up position. Note: If changed to °F the comfort and economy settings will need to be reconfigured.

**Step 7** Push excess wire back into the wall mounting box and secure the thermostat body to the mounting box using the two screws provided.

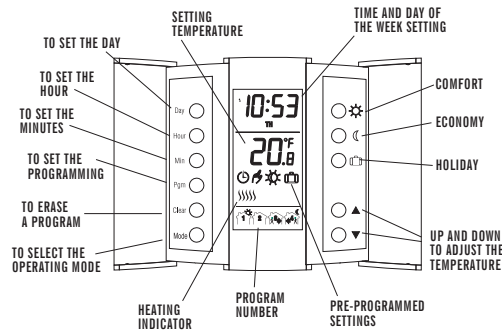
**Step 8** Clip the top of the thermostat front panel to the thermostat body and secure with the captive screw.

## 2.4 POWER UP

When power is applied for the first time, the display will show all icons before showing the time 0.00, the floor temperature and the manual mode icon ⚡.

Other information might show up on the display if the installation is defective or does not comply with the instructions.

The message LO or HI will appear on the display if the temperature is below 0°C (32°F), above 60°C (140°F) or if the temperature sensor is defective. Also if the LO message is displayed, the heating indicator will be present on the display and the relay will be closed (current going to load).



## 2.5 OPERATING MODES

The thermostat has three operating modes.

### Manual ⚡

This mode allows you to maintain a constant floor temperature.

### Automatic ⏰

This mode allows you to program your own heating schedule for each day of the week.

### Holiday 🗓️




This mode sets the thermostat to your specified holiday temperature. Regardless of manual or automatic mode, this setting will maintain a constant floor temperature.




ALWAYS CONNECT MULTIPLE HEATMATS IN PARALLEL. ALL CONNECTION WIRES MUST RETURN TO THE THERMOSTAT OR A COMMON TERMINATION POINT.




NEVER CUT THE YELLOW HEATING WIRE. HEATING WIRE MUST NEVER BE SHORTENED OR LENGTHENED.




## 2.6 PROGRAMMING TEMPERATURES

The Thermostat has three pre-set temperature settings.

SETTING	SYMBOL	PRE-SET TEMPERATURE
COMFORT		28°C
ECONOMY		18°C
HOLIDAY		10°C

a) **Comfort temperature.** Select the desired temperature using the ▼ ▲ buttons. Press and hold  button to confirm. Release  button when  icon is displayed.

b) **Economy temperature.** Select the desired temperature using the ▼ ▲ buttons. Press and hold  button to confirm. Release  button when  icon is displayed.

c) **Holiday temperature.** Select the desired temperature using the ▼ ▲ buttons. Press and hold  button to confirm. Release  button when  icon is displayed.



d) Press **Mode** button to exit.

Approximately 2 seconds after selecting a temperature, the display will change to show floor temperature.

It is generally accepted that the maximum surface temperature of the floor finish should be between 27-29°C.









## 2.7 PROGRAMMING MANUAL MODE

**Step 1 Activate manual mode.** Press the **Mode** button to select the manual icon .

**Step 2 Temperature setting.** Press the ▼ ▲ buttons to select the temperature or press  button to select the comfort temperature or press the  button to select the economy temperature.

## 2.8 PROGRAMMING AUTOMATIC MODE

The automatic mode allows up to four setting changes for each day of the week.

TIME	PROGRAM	SETTING
WAKE-UP TIME	1 	 COMFORT
LEAVE HOME	2 	 ECONOMY
RETURN HOME	3 	 COMFORT
BED TIME	4 	 ECONOMY


### Step 1 Programming the time and day.









- Set the day using the **Day** button.
- Set the time using the **Hour** and **Min** buttons.

### Step 2 Programming your daily schedule.

- Press the **Pgm** button to access the programming mode.
- Use the **Day** button to select the day to be programmed. If the program is the same for each day, press and hold the **Day** button to select all days of the week. If the program is the same for most of the week press and hold the **Day** button to select all days of the week and proceed to step 3c. Afterwards return to step 3b and change those days which have a different schedule.
- Use the **Pgm** button to select program 1, 2, 3 or 4. For each program use the **Hour** and **Min** buttons to set the time.
- To erase a program use the **Day** and **Pgm** button to select, then press the **Clear** button to erase. When -- : -- is displayed the program is inactive.
- When programming is complete, press the **Mode** button to exit.

### Programming example

 Comfort setting  
 Mon-Fri 6.15 to 8.30  
           18.00 to 22.30  
 Sat-Sun 7.30 to 23.00

- Press the **Pgm** button to access the programming mode.
- Press and hold the **Day** button to select days of the week.
- Use the **Hour** and **Min** buttons to set the time 6.15 (program 1 .
- Use the **Pgm** button to select program 2. Use the **Hour** and **Min** buttons to set the time 8.30 (program 2 .
- Repeat step 4 to enter program 3  18.00 and program 4  22.30.
- To modify the Saturday schedule, use the **Day** button to select the **SA** icon.
- Use **Pgm** button to select program 1 . Use the **Hour** and **Min** buttons to set the time 7.30.
- Use the **Pgm** button to select program 2  and press **Clear** to erase.
- Use the **Pgm** button to select program 3  and press **Clear** to erase.
- Use the **Pgm** button to select program 4 . Use the **Hour** and **Min** buttons to select the time 23.00.
- Repeat steps 6-10 for Sunday **SU**.
- Press the **Mode** button to exit.

ALWAYS FOLLOW THE FLOOR FINISH MANUFACTURER'S GUIDELINES FOR ELECTRICAL UNDERFLOOR HEATING.

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UNDERFLOOR HEATING