Excellence in heating solutions.
Need to turn up the heat?
Just ask Alexa!
ThermoSphere SmartHome controls that work with Alexa

- Works with Alexa via the ThermoSphere SmartHome Hub
- 7 day programmable underfloor heating schedule
- Tracks your energy use to help save money
- Can be used as a standalone electric underfloor heating thermostat
- Control from anywhere with the ThermoSphere iOS & Android app

Wireless connection requires:
- ThermoSphere SmartHome Hub
- ThermoSphere SmartHome control
- Broadband internet
- An available port on your router
- ThermoSphere app on a compatible iOS or Android device
- Approximate range limit 20m open field
- Amazon Echo device required for Alexa voice control

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Description</th>
<th>Wifi</th>
<th>Colour</th>
<th>Size (mm)</th>
<th>IP Rating</th>
<th>Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHC-W-01</td>
<td>SmartHome Control</td>
<td>Yes</td>
<td>White</td>
<td>87 x 87 x 14</td>
<td>IP21</td>
<td>16A</td>
</tr>
<tr>
<td>SHC-B-01</td>
<td>SmartHome Control</td>
<td>Yes</td>
<td>Black</td>
<td>87 x 87 x 14</td>
<td>IP21</td>
<td>16A</td>
</tr>
<tr>
<td>SHH-01</td>
<td>SmartHome Hub</td>
<td>Yes</td>
<td>White</td>
<td>95 x 95 x 20</td>
<td>IP30</td>
<td></td>
</tr>
</tbody>
</table>
A dual control for your electric underfloor heating and towel rail

- Control your electric underfloor heating with a 7 day 6 event heating schedule
- Control an extra appliance such as an electric towel rail or mirror heater
- Easy upgrade - works with all of the most common floor sensor probes
- Smart energy saving features - Adaptive start and open window sensor
- Wireless models available

Dual relay control:
- 16A relay for underfloor heating
- 5A relay for additional appliance
- Maximum combined load 20A
- Control any electrical device with a 230V switch live
- Use a 12V transformer for low voltage devices
- 5A relay does not work in tandem with the temperature sensors

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Colour</th>
<th>Size (mm)</th>
<th>IP Rating</th>
<th>Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-B-01</td>
<td>White</td>
<td>129 x 88 x 48 (31mm in wall)</td>
<td>IP30</td>
<td>20A</td>
</tr>
<tr>
<td>DC-W-01</td>
<td>Black</td>
<td>129 x 88 x 48 (31mm in wall)</td>
<td>IP30</td>
<td>20A</td>
</tr>
</tbody>
</table>
**Programmable**

- ✔ 7 day 6 event schedule
- ✔ Easy to use touch display
- ✔ Ambient & floor temperature sensing
- ✔ Energy saving adaptive start
- ✔ Automatic open window sensor
- ✔ Wireless models available

**Stock Code** | **Colour**       | **Size (mm)**               | **IP Rating** | **Max Load** |
--- | --- | --- | --- | --- |
SCP-W-01 | White Glass | 85 x 85 x 46 (31mm in wall) | IP30          | 16A          |
SCP-B-01 | Black Glass | 85 x 85 x 46 (31mm in wall) | IP30          | 16A          |

**Manual**

- ✔ Simple on/off switch
- ✔ Temperature control
- ✔ Easy to use touch display
- ✔ Ambient & floor temperature sensing

**Stock Code** | **Colour**       | **Size (mm)**               | **IP Rating** | **Max Load** |
--- | --- | --- | --- | --- |
SCM-W-01 | White Glass | 85 x 85 x 46 (31mm in wall) | IP30          | 16A          |
SCM-B-01 | Black Glass | 85 x 85 x 46 (31mm in wall) | IP30          | 16A          |
Wirless connection requires:
- Thermosphere Hub
- Compatible Thermosphere wireless control
- Broadband internet
- An available network port on your router
- Thermosphere app
- Compatible iOS or Android device
- Approximate range limit 20m open field

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Colour</th>
<th>Size (mm)</th>
<th>IP Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLH-01</td>
<td>White</td>
<td>98 x 78 x 28</td>
<td>IP30</td>
</tr>
</tbody>
</table>
CONTROL | TOUCH | SINGLE WIRELESS

- 7 day 6 event heating schedule
- Easy to use touch display
- Ambient & floor temperature sensing
- Energy saving adaptive start
- Automatic open window sensor

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Wifi</th>
<th>Colour</th>
<th>Size (mm)</th>
<th>IP Rating</th>
<th>Max Load</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSC-W-01</td>
<td>Yes</td>
<td>White Glass</td>
<td>85 x 85 x 46 (31mm in wall)</td>
<td>IP30</td>
<td>16A</td>
<td>Ea</td>
</tr>
<tr>
<td>WSC-B-01</td>
<td>Yes</td>
<td>Black Glass</td>
<td>85 x 85 x 46 (31mm in wall)</td>
<td>IP30</td>
<td>16A</td>
<td>Ea</td>
</tr>
</tbody>
</table>

CONTROL | TOUCH | DUAL WIRELESS

- 7 day 6 event heating schedule
- Easy to use touch display
- Ambient & floor temperature sensing
- Energy saving adaptive start
- Automatic open window sensor

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Wifi</th>
<th>Colour</th>
<th>Size (mm)</th>
<th>IP Rating</th>
<th>Max Load</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDC-W-01</td>
<td>Yes</td>
<td>White</td>
<td>129 x 88 x 48 (31mm in wall)</td>
<td>IP30</td>
<td>20A</td>
<td>Ea</td>
</tr>
<tr>
<td>WDC-B-01</td>
<td>Yes</td>
<td>Black</td>
<td>129 x 88 x 48 (31mm in wall)</td>
<td>IP30</td>
<td>20A</td>
<td>Ea</td>
</tr>
</tbody>
</table>
ThermoSphere SmartHome Hub

**Technical data**

- **Power supply**: 5V DC
- **Operating power**: 1A
- **Ambient temperature**: 5 – 50°C
- **Compatible controls**: 5220RF 5226RF 5245RF 5246RF
- **Warranty**: 3 years
- **Protection rating**: IP40
- **Width x height**: 79 x 98 x 28mm
- **Wireless**: ZigBee Mesh
- **Range**: 20m open field (approx)
- **Max no. of connections**: 32 units
- **Max no. of hubs per app**: 2

**Box contents**

- 1 x Thermosphere SmartHome Hub
- 1 x Installation guide
- 1 x Network cable
- 1 x Power supply
- 2 x Fixing screws

ThermoSphere SmartHome Control

**Technical data**

- **Voltage**: 85 - 265V 50/60Hz
- **Maximum load**: 16A
- **Standby consumption**: <2W
- **Connectivity**: ZigBee Mesh
- **Ambient temperature**: 5°C - 50°C
- **Protection rating**: IP21
- **Dimensions**: 87 x 87 x 14mm
- **Mounting**: 25mm back box
- **Range**: 20m open field (approx)
- **Max no. of connections**: 100+ units
- **Max no. of hubs per app**: 10

**Box contents**

- 1 x ThermoSphere SmartHome Control
- 1 x Installation guide
- 1 x 3m floor temperature sensor probe
- 1 x 2m sensor conduit
- 2 x Fixing screws

**Mesh network diagram**

Mesh networking makes sure your thermostats are always connected. Extra connections between each thermostat provide a backup signal if a thermostat should ever lose its connection to the hub.

Wireless connection requires a Thermosphere SmartHome Hub, compatible Thermosphere SmartHome control, broadband internet and an available network port on your router. Download the Thermosphere app on a compatible iOS or Android device. Approximate range limit 20m open field.
ThermoSphere Wireless Hub

**Technical data**

- **Power supply**: 5V DC
- **Operating power**: 1A
- **Ambient temperature**: 5 ~ 50°C
- **Compatible controls**: 5220Z 5226Z
- **Warranty**: 3 years
- **Protection rating**: IP30
- **Width x height**: 95 x 95 x 22mm
- **Wireless**: RF 868 MHz Mesh
- **Range**: 20m open field (approx)
- **Max no. of connections**: 100+ units
- **Max no. of hubs per app**: 10

**Box contents**

- 1 x ThermoSphere Wireless Hub
- 1 x Installation guide
- 1 x Network cable
- 1 x Power supply

---

ThermoSphere Wireless Control

**Technical data**

- **Supply voltage**: 230V 50/60Hz
- **Maximum load**: 16A (3600W)
- **Backup storage**: EEPROM (1 year backup)
- **Temperature range**: 5 ~ 80°C (0.5°C increments)
- **Accuracy**: ±0.5°C
- **Sensor rating**: NTC 10kΩ @ 25°C
- **Consumption**: 2W
- **Warranty**: 3 years
- **Protection rating**: IP30
- **Width**: 85mm
- **Height**: 85mm
- **Depth**: 46mm (31mm in wall)

**Box contents**

- 1 x ThermoSphere Wireless Control
- 1 x Installation guide
- 1 x 3m floor temperature sensor probe
- 1 x 2m sensor conduit
- 2 x Fixing screws
ThermoSphere dual control

Technical data

- Supply voltage: 230/240V 50/60Hz
- Maximum load: 16A (20A combine)
- UFH relay: 16A (3600W)
- Appliance relay: A (1125W)
- Temperature range: 0 ~ 35°C
- Ambient: 0 ~ 50°C
- Compatible sensors: 6.8k, 10k, 12k, 15k, 33k (Ω @ 25°C)
- Accuracy: ±0.5°C
- Warranty: 3 years
- IP rating: IP30
- Width: 129mm
- Height: 88mm
- Depth: 48mm (31mm in wall)

Box contents

- 1 x Dual Control
- 1 x Installation guide
- 1 x 3m floor temperature sensor probe
- 1 x 2m sensor conduit
- 2 x Fixing screws

ThermoSphere manual control

Technical data

- Supply voltage: 230V 50/60Hz
- Maximum load: 16A (3600W)
- Temperature range: 5 ~ 80°C (0.5°C increments)
- Accuracy: ±0.5°C
- Sensor rating: NTC 10kΩ @ 25°C
- Consumption: 2W
- Warranty: 3 years
- Protection rating: IP30
- Width: 85mm
- Height: 85mm
- Depth: 46mm (31mm in wall)

Box contents

- 1 x Manual Control
- 1 x Installation guide
- 1 x 3m floor temperature sensor probe
- 1 x 2m sensor conduit
- 2 x Fixing screws
Installing your control in the correct location

1. Plan back box and conduit positions
   Measure and mark your back box and conduits in the required position. The cold tail is 3m in length. It needs to reach from your back box, down through your conduit and along to your heating cable start position (extension available).

   It is important to position your sensor between two runs of heating cable. A channel must be chased into the insulation or substrate to house the sensor conduit. Do not position the sensor conduit near any temperature influence or where furniture and rugs might be placed over the sensor.

2. Install back box
   Fit an extra deep single gang back box at the desired level. Chase from the back box to the floor level, allowing for the conduit.

   Power for the thermostat should come from an RCD protected fused spur.

3. Install two conduits
   Sensor conduit: Install a conduit for the sensor probe (laid centrally between two runs of heating cable).

   Cold tail conduit: Install another conduit for the cold tail (black cable) of the heating system.

4. Floor temperature sensor location
   To ensure an accurate reading, position the floor sensor between 2 runs of heating cable. Away from any other temperature. ThermoSphere recommend using 2 sensor probes.