

# Thermostats

**Heat Mat**<sup>®</sup>

*Heated Floor Systems*



Heat Mat's thermostat range offers innovative design and functionality for the control of our underfloor heating systems. These thermostats are a perfect combination of form and function, products of high quality and unique reliability designed for a demanding market place. Our thermostat range for use with our underfloor heating comprises of the following three controls.



## HT30

### 14A Single Sensor Manual Thermostat

The HT30 is an electronic on/off thermostat which controls temperature by means of an NTC floor temperature sensor. The thermostat dispenses with an LCD display and instead uses a temperature dial to set the target temperature and a red LED to indicate when it is heating.

The thermostat is easy to install and flush mounts in a standard UK wall socket. It is a very user friendly thermostat with a graduated scale, making it easy to set the required floor temperature. If required, the scale can be adjusted and limited for maximum and minimum temperatures.

- A simple to use electronic thermostat with a temperature dial.
- Supplied with a floor temperature sensor.
- IP21 rated housing: can be mounted in bathrooms and other humid rooms.
- Built-in setback mode for use in hotels, offices etc. with an external timer.
- Capable of directly controlling up to 3,200W, 14A of underfloor heating.
- Flush mounts in a standard UK single gang wall box.



## TPS30

### 16A Dual Sensor Manual Thermostat

With state-of-the-art electronics inside and an attractive design outside, our new ultra-thin manual on/off thermostat provides a stylish easy to use control.

Thanks to its intuitive controls, you will probably never have to look at the instruction booklet. The red button increases the room temperature, the blue one lowers it. It's as simple as that!

This thermostat is ideal for situations where a timer is not required and a simple on/off thermostat will be sufficient. It is supplied with the minimum of programming options to avoid confusion but does include a floor temperature limitation sensor.

The ultra-thin thermostat features an installation depth of only 18mm allowing more space for installing heating and power cables.

- A simple to use thermostat with an attractive design.
- Supplied with a floor temperature sensor which allows complete control of the floor temperature itself.
- The clear LCD display shows the required temperature information.
- IP21 rated housing: can be mounted in bathrooms and other humid rooms.
- Capable of directly controlling up to 3,600W, 16A of underfloor heating.
- Flush mounts in a standard UK single gang wall box.



# CPS10

## 16A Dual Sensor Programmable Thermostat Timer

The CPS10 is an elegant electronic thermostat with a built-in timer specially developed to provide heating comfort whilst remaining as energy efficient as possible. It is simple to operate and has a clear inclined backlit display. It contains both an ambient room temperature sensor and a floor temperature sensor.

The CPS10 is equipped with a microprocessor which utilises a 4-event program to control your heating system. Each day is divided into 4 periods which are shown on the display using simple and easy to understand symbols. These periods each have separate temperature settings so the thermostat can control the underfloor heating in an economical manner.

- Intuitive controls and programming options.
- Pre-programmed for simple start-up and optimum heat control.
- Full adaptive function to ensure energy efficient running of the heating system.
- Supplied with a floor temperature sensor which allows complete control of the floor temperature itself.
- Inclined backlit display for clear information.
- IP21 rated housing: can be mounted in bathrooms and other humid rooms.
- Capable of directly controlling up to 3,600W, 16A of underfloor heating.
- Flush mounts in a standard UK single gang wall box.
- Snap-mounting front cover for simple installation.

# OJ Electronics

## A leading manufacturer of innovative design, reliability and high quality

OJ Electronics - the manufacturer of Heat Mat's thermostats, is one of the world's leading manufacturers of controls for electric underfloor heating. OJ's products are recognised worldwide for their innovative design and high quality. The reliability of OJ's products is unique and the best on the market today.

OJ Electronics has more than 40 years experience, ongoing research and development, state-of-the-art production and quality assurance technologies. The company's products are acclaimed for their ease of installation and user friendly operation. Based in Sønderborg, Denmark, OJ Electronics has BEAB approved production facilities, and their products are distributed worldwide.



# HT30

## Product Programme

HMT-000-0031 Thermostat IP21 with setback mode 5°C incl. floor sensor 3 m

## Technical Data

Supply voltage	230V +10/-15% 50/60 Hz
Output relay	14A, max. 3,200W
Built-in interrupter	1-pole
Temperature range	+5/+40°C
Setback mode	5°C (via remote timer)
On/off differential	0.4°C
Housing	IP21
Ambient temperature	0/+50°C
Dimensions (H/W/D)	80/80/50 mm
Sensor type	NTC
Heating is switched off in case of sensor failure	

# TPS30

## Product Programme

TPS-345-0030 Thermostat IP21 with built-in room sensor and external floor sensor (limitation sensor)

## Technical Data

Power supply	230V +10/-15% 50/60 Hz
Output relay SPST	16A, 3,600W
On/off differential	0.4°C
Built-in interrupter	2-pole, 16A
Ambient temperature	0/+50°C
Temperature range	+0/+40°C
Setback temperature	2-8°C (via remote timer)
Housing	IP21
Dimensions (H/W/D)	80/80/50 mm
Floor sensor	NTC, 3 m

# CPS10

## Product Programme

CPS-345-0010 Clock thermostat with built-in sensor and incl. limitation sensor 3 m

## Technical Data

Supply voltage	230V ±15%, 50/60Hz
Output relay SPST	16A, 3,600W
Built-in interrupter	2-pole, 16A
Temperature range	+5/+40°C
Limitation of range	5/55°C, Factory setting min. 15°C/max.28°C
Clock function	4-event program
Ambient temperature	0/+40°C
On/off differential	0.4°C
Housing	IP21
Sensor type	NTC, 3 m
Dimensions (H/W/D)	80/80/48 mm
Size of display (H/W)	25/22 mm