



UFSTAT10  
Thermostats



## UFSTAT10 Thermostat

### Cost effective electronic thermostat/timer

Heat Mat's UFSTAT10 is a fully featured electric underfloor heating thermostat/timer, ideal for controlling any of Heat Mat's systems or other manufacturer's electric underfloor heating.

The thermostat incorporates air temperature and floor temperature sensors to provide maximum controllability.

The UFSTAT10 provides fully automated and flexible underfloor heating control to suit the owner's daily schedule. The thermostat features a daily heating schedule that can be tailored by the end user to operate as they wish. An easy-to-use manual mode can be switched on with a single button press and the controller then operates as a simple on/off thermostat unit.

The UFSTAT10 allows different week types to be programmed depending on the owner's routine. Each day is split into distinct 'events' allowing the homeowner to create a personalised heating schedule.

This thermostat has an energy monitor that displays energy usage on a daily and weekly basis allowing end users to monitor how much their heating is costing them to run as required.

Another intelligent feature is the 'Adaptive Function' designed to learn the heat characteristics of a room and turn the underfloor heating on before an event. This feature ensures that the room is up to temperature at the desired time, and also operating in the most energy efficient manner.

The 'Open Window' function monitors the room temperature for any sudden and sustained drops in air temperature, such as when a door or window is left open. If the thermostat sensors this situation it automatically switches off the heating system to stop wasting heat.



UFSTAT10 in Polar White

# Heat Mat

## Underfloor Heating

Call 01444 247020  
to find out more or  
visit our website at  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

### UFSTAT10 Features

A cost effective programmable electric underfloor heating controller with the following features:

- Easy to use, quick to navigate
- A full suite of options usually seen on premium thermostats
- Set your own target temperature schedule based on room or floor temperature sensors
- Turns into a simple manual controller at the touch of a button
- Lot20 compliant with a number of energy saving features
- Adaptive function learns the heat characteristics of your room and anticipates when the heating needs to be turned on
- Open window function monitors unexpected and sustained drops in temperature and turns the heating off to save electricity
- Energy monitor displays energy usage daily and weekly
- Controls up to 16Amp of underfloor heating directly without the need for a contactor

### Compatible with



Heating mats



Undertile heating cables



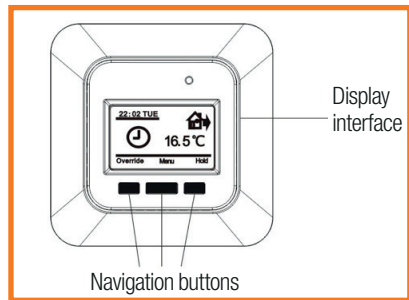
FlexHeat systems



6mm heating cables



Underlamine heating mats



### Simple to use

The UFSTAT10 is designed to be very straightforward and simple-to-use with an icon driven menu system that also has text explaining each function. In addition to the automatic heating schedule the alternative manual mode provides the simplest possible heating operation. The manual mode allows the heating to be turned up or down and off without following any schedule.

A single menu carousel provides access to all functions including the pre-programmed heating schedule, which can be amended as desired. There are many options within this menu system including the following:

### Sensor settings

The thermostat has three sensor options. In most circumstances the thermostat will operate on the room temperature with floor temperature limitation, which prevents the floor from overheating.

For times when the thermostat is outside of the room being heated it is operated on floor temperature only, and for controlling other forms of heating the thermostat can be used on room temperature only.

### Heating schedule

The thermostat comes with a pre-programmed 'event' schedule for easy and economic heating control. This can easily be personalised to reflect a homeowner's routine and automatically follow a schedule for every day of the week.

### Energy monitor

The thermostat records the energy usage on a daily and weekly basis and displays the energy usage in kilowatts so that the electricity consumption can be monitored.

### Adaptive function

The Adaptive function monitors the heat characteristics of rooms and adjusts the thermostat accordingly, to bring the room up to temperature for the start of each programmed event. After a few days, the adaptive function will have automatically calculated when the heating must be turned on/off to achieve this and it will adapt with the seasons to ensure the system runs efficiently. If enabled, adaptive function will be active prior to every event to reach the target temperature.

### Open Window function

The open window function is designed to prevent wasting heat if an outside window or door is left open when the thermostat is running.

If this function is enabled it constantly monitors for any sudden and sustained drops in the room temperature and temporarily turns off the heating if they occur.

### Manual Mode

The manual mode allows the programmable thermostat to be converted to a simple manual on/off controller using the up and down arrows to increase or decrease temperature as desired.

## UFSTAT10 Thermostat Technical Specification

Supply Voltage	100-240 V AC + 10% 50/60Hz
Output relay	Max 16A
Temperature range	+5 / +35°C
Floor limit range	+5 / +40°C
Heating schedule	2 or 4-event program
Wireless	No
Battery backup	1 year
Ambient temperature	0/+40°C during operation
On/Off differential	0.4°C
Housing	IP21
External sensor type	NTC (100 KΩ) 3m
Dimensions (H/W/D)	82/82/56mm (32mm depth)
Colour	Polar white (RAL 9010)

### Wiring

Heating systems must always be controlled by a suitable electric underfloor heating thermostat with floor temperature limitation. Heat Mat thermostats are rated to 16 Amps, and if a system exceeds this loading a suitably rated contactor should be used. The circuit must be protected by a 30mA RCD and suitably rated fuse or circuit breaker.



## About Heat Mat

With more than 1,200,000m<sup>2</sup> of underfloor heating installed, 20 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professional's Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



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# Heat Mat Underfloor Heating



To see our full underfloor heating product range please follow this link.