

# About Cosytoes® Underfloor Heating

Cosytoes® is a British company and all our products are manufactured to the highest standards for quality and safety.

## Key Features

- Control units will make your floors warm just when you need it.
- Our systems keep energy costs to a minimum.
- When heating a modern home, TradeMat+ uses approximately 1p/hour, per square metre.
- Our products are simple to install, extremely tough, resilient and truly exceptional quality.

## Help and Assistance:

Should you need any assistance, please contact us

**Phone Support:** 0113 2577 588

**Email Support:** [cs@cosytoes.co](mailto:cs@cosytoes.co)

Sales Tel: 0113 2577 588 | Fax: 0113 236 2300

Address: Bramley House, Bath Lane, Bramley, Leeds, LS13 3BB.

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## Heating Mats and Cables

### Important- Things to Avoid\*

- Under no circumstances should the heating cable be cut to shortened or lengthened.
- Heating cables should be no closer than 5cm to each other and under no circumstances should they cross.
- The joint between the cold connection wire and the heating cable should be installed flat and level and should not be bent i.e. to go up the wall.
- The heating mat should not be installed on an uninsulated concrete floor. Insulate insulated concrete floors for quicker a heat up time.
- Cement boards soak up the heat and cause a longer heat up time.
- The heating cable should not be installed under fixed objects where the heat cannot escape.
- Don't forget to fit the floor probe – it's in the Timerstat box.
- Don't connect a rolled-up mat or cables to the mains – it will be fatally damaged.

# Manual Thermostat [MTS3]



The thermostat is designed for control of electric heating devices (Built-in sensors for measuring room temperature and external sensor for high temperature protection). Is also used for underfloor heating when the external sensor is selected.

## Technical Parameters:

Voltage:	230V AC ,50/60Hz
Load Current:	16A
Power Consumption:	<2VA
Range of Temperature:	5°C ~ 40°C
Outer Sensor:	B=3380 10K@25°C
Switching Differential:	±1°C
Ambient Temperature:	-5°C ~ 50°C
Protective Casing:	IP20
Lead Length:	3M
Casing Material:	Flame-retardant PC
Standard Installation Height:	1.2M
Dimensions:	H86, W86, D41mm

## Floor Limiting Temperature Sensor Installation:

The sensor at the end of the floor probe should be situated mid way between 2 heating cables typically 4cm from each.

**IMPORTANT** - Do not install the sensor over another heat source e.g. central heating pipe or the thermostat will not function correctly.

## Mounting Location Recommended:

The thermostat should be mounted on the wall with air flowing freely around.

Warning: The mounting location should not be influenced by other heat source(e.g. sunlight), air flow through doors & windows or temperature of outerwall.

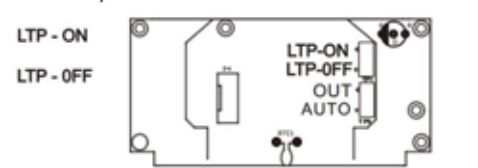
## Temperature Setting:

The factory default temperature control range is +5/40°C. Switch the unit on with the ON/OFF button. When the temperature dial is turned up there will be a red LED showing - when the required temperature is reached, the

internal relay will switch off and a green LED will show. When the floor cools, the relay will switch on and the red light will show.

## Turn on/off Low Temperature Protection (Default is off):

With the power switched off at the isolator, take the front off the unit to expose the circuit board. With the top switch up, LTP is on and with the switch down LTP is off. When LTP is on, the heating will automatically switch on when the room temperature drops below 5°C. The heating will switch on/off to keep the temperature just above freezing.

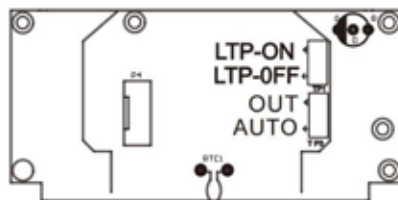


### Sensor mode (Default is automatic mode):

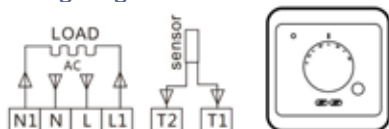
For underfloor heating, the lower switch should be in the up position - (OUT) so that the stat will take it's reading from the floor probe.

With the lower switch in the down position (AUTO) and with the floor probe connected, the stat will read the air temperature and use the temperature from the floor probe to prevent the floor overheating.

**IMPORTANT - ALWAYS SET THE SWITCH TO OUT FOR GENERAL UNDERFLOOR HEATING.**

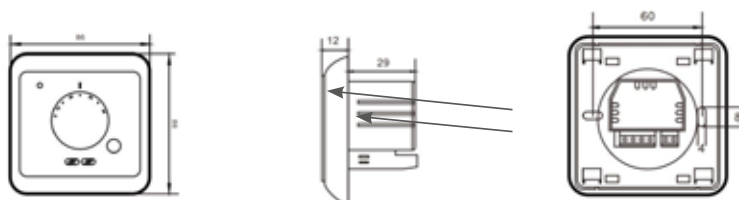


### Wiring Diagram:



- 1.Red LED: Heating switched on.
  - 2.Green LED: Required temperature reached
- Temperature Dial  
ON/OFF Button

### Dimensions:



### Mounting Instructions:

**Warning:** Please do not rotate the control knob since the factory default has been calibrated!

1.Release the front cover by inserting a screwdriver into bottom crack.

2.Take the back plate apart according to above diagram.

3.Install the thermostat in electrical connection box with screws.

4.Install the housing cover and lock the external frame.

