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

Sales Tel: 0113 2577 588 | Fax: 0113 236 2300
Address: Bramley House, Bath Lane, Bramley, Leeds, LS13 3BB.

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.

Curve

The 'Curve' is a smart timerstat used to control electric heating devices or valve actuators. There are 2 versions, standard and WiFi. For the standard version instructions, you should ignore the specific WiFi sections – all other settings are similar. It will keep your home at a comfortable temperature whilst minimising energy use.

The 'Curve-W' is a WiFi version that connects to your home router. You can download the App on your smartphone to control your electric heating system wherever you are.

Main Functions

- Time Display
- Holiday Function
- Off time frost protection
- Energy consumption calculation
- Floor high temperature protection

- Open window detection function
- Key-lock
- Sensor Selection
- Hold Function
- Reverse Output Function

Technical Specification

- Supply voltage: 85-265Vac 50/60Hz
- Standby Power: <2W
- IP rating: IP21

- Maximum switching current: 16A
- Wire diameter: ≤2.5mm2

Display

Day Indicator
Period Indicator
Holiday Left
Hold Left
Clock

Frost symbol
WiFi
Key Lock Indicator
Floor Temp
Room Temp
Set
Flame Symbol
Temperature
Program Parameter Edit
Holiday Parameter Edit
Clock Parameter Edit
Confirm
Return
Power

MON TUE WED THU FRI SAT SUN HOLIDAY
WAKE LEAVE RETURN SLEEP HOLD LEFT
FLOOR TEMP
ROOM TEMP
SET

EDIT HOLIDAY HOLD SETUP

Degrees Celcius
Degrees Fahrenheit
Floor Limit Symbol
Advanced Setup
Hold Parameter Edit
Down
Up

WiFi Setup

Step 1: Scan the QR code or search for "cosytoes" on Google Play or the Apple App Store.

Note: Only compatible with Android and Apple operating systems.

Step 2: Press 'Register' and enter either your mobile phone number or email address. If using your mobile number for your login, a verification number will be texted to the supplied number. This registration process creates a profile connecting your device to the cloud, allowing it to be accessed wherever you are using your mobile data.

Step 3: Press 'Add Device' to begin the setup process. You will be prompted to ensure the WiFi icon on the timerstat interface is flashing quickly. To set this up, return to the main screen on the stat and then hold both the up and down buttons until "F1" is displayed.
Tip: If the icon doesn't flash, try switching the mains power to the unit off and on again.
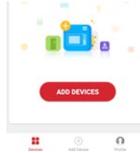
Step 4: Tap the "WiFi - flashing -quickly. Press the to Continue" Button. You will be prompted to enter your WiFi password. After correctly entering your details, press confirm. The connection will now be initialized. Set up complete!
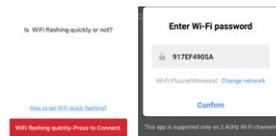
If you would like to share control of this device with another user, press 'Share with family' on the successfully added screen OR press Device sharing in either the profile tab or in the '...' button in the top right of the device control screen and enter their login. If this is not carried out then only 1 user may access the device.

Troubleshooting:

If the connection fails repeatedly in 'F1' mode, try the alternative mode by again holding both the up and down arrows until 'F2' is displayed and then select 'AP mode' in the top right of the 'add device' screen. This mode uses the thermostat as a WiFi hotspot. Press the continue button and follow the onscreen prompt to change your phone's WiFi connection to the thermostat's hotspot.
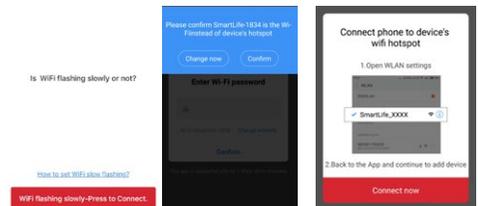
Functions and User Operation

On/Off
- Press POWER to turn on/off
- *Note: When frost protection mode is active, the timerstat*

will maintain the frost protection temperature when in 'off' mode.

Temporary Override Temperature
- In 'on' mode, press △ or ▽ to change the current period temperature setting.
- The new set temperature will flash for 30 seconds.

- The timerstat will revert to the normal programmed settings at the start of the next time period.

Set the Time
- In 'on' mode, press ○ and the clock symbol will flash.
- Press ○ again to enter day set.
- Press △ or ▽ to set day.
- Press ○ to confirm and enter hour set.
- Press △ or ▽ to set hour.

- Press ○ to confirm and enter minute set.
- Press △ or ▽ to set minute.
- Press ↺ to confirm, then press ↺ again to revert to normal screen. Or leave to timeout.

Key-lock
- Setting key-lock can prevent children and others from switching timerstat parameters.

- In 'on' mode, press ↺ for 5 seconds to lock the timerstat and again for 5 seconds to cancel.

Holiday mode
- In holiday mode, the Curve will maintain the frost protection temperature until the holiday period ends.
- In 'on' mode, press ○ to enter setting.
- Press △ or ▽ to select holiday.
- Press ○ to enter holiday days set.
- Press △ or ▽ to set the number of holiday days.

- Press ○ to confirm and return to the normal screen.
- *Note: In holiday mode 'HOLIDAY LEFT' days remaining will show on the display. Set the holiday days to '0' to cancel holiday mode. Then press POWER twice to return to normal screen.*

Hold mode
- The Curve will maintain the 'hold temperature' until hold is switched off.
- In 'on' mode, press ○ to enter setting.
- Press △ or ▽ to select hold.
- Press ○ to enter hold.
- Press △ or ▽ to set hold to ON.

- Press ○ to enter hold temperature set.
- Press △ or ▽ to set hold temperature.
- Press ○ to confirm and return to the normal screen.
- *Note: Whilst in hold mode, 'HOLD' will show on the display. To turn off hold mode, re enter hold as above and set ON to OFF*

Timer setting
Each day of the week has 4 time periods, you should allot a temperature to each time period. Set the temperature above room ambient temperature and the heating will come on until the desired temperature is reached, or, set the temperature low and the heating will not come on during that time period. The default settings are shown in the table below.

- In 'on' mode, press ○ to enter setting.
- Press △ or ▽ to select edit.
- Press ○ to enter day selection.
- Press △ or ▽ to select the day to be set.
- *Note: Weekdays are set as a group, Saturday & Sunday individually.*
- Press ○ to enter period selection.
- Press △ or ▽ to select the period to be set.

- Press ○ to enter start time set.
- Press △ or ▽ to select the start time hour.
- Press ○ to enter minute set.
- Press △ or ▽ to select the start time minute.
- Press ○ to enter temperature set.
- Press △ or ▽ to select the temperature.
- Press ○ to confirm and move on to the next time period.

When all four time periods have been set the next day will then be available to set.

Press POWER twice to return to normal screen or allow to time out at any time and your settings will be saved.

Default period settings for time and temperature

Week	Wake	Leave	Return	Sleep
Mon - Fri	07:00 22°C	08:30 19°C	17:00 22°C	22:00 19°C
Sat / Sun	08:00 22°C	08:30 22°C	17:00 22°C	22:00 19°C

Note: Do not try to remove time periods or the timerstat may be damaged.

Open Window Detection
The thermostat can detect an open window by registering a rapid drop in temperature. With the function enabled, the thermostat shuts off the heating for 15 minutes if an open window is detected. It is energy saving and can protect the floor. When the window closed, please press for twice then back to the regular program status.

Note: this function cannot be prohibited.

Troubleshooting - Fault Codes

E1 = Built-in sensor short-circuit or disconnected.
E2 = Floor sensor damaged/disconnected/clamped on to insulation or incorrect floor sensor installed.

Note: The floor sensor resistance should be in the range of 10K Ohms - please check.

Please call 0113 2577 588 for replacement floor sensor.

Dimensions
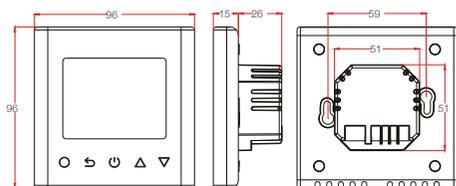
Advanced Settings

Note: These are normally set by the installer.

- In 'on' mode, press ⭘ to enter setting.
- Press △ or ▽ to select setup.
- Press ⭘ to enter advanced setting.
- Each parameter can be accessed by pressing ⭘ and then adjust the values as required.

No	Name	Default	Ranges
1	Room temp calibration	0°C	-5°C to +5°C
2	Floor temp calibration	0°C	-5°C to +5°C
3	Frost Protection	ON	OFF/ON
4	Frost Protection	5°C	-5°C to +15°C
5	Sensor selection	01	00: Built-in sensor 01: Floor sensor 02: Both sensors Note: Set to 01 for underfloor heating in kitchens and bathrooms.
6	Floor temperature limit (both sensors)	30°C	20°C to 50°C
7	Temperature unit	°C	00: °C 01: °F
8	Output delay	00	00: 0s 01: 30s 02: 60s 03: 90s
9	Differential temp setting	1°C	00: 0.5°C 01: 1°C 02: 2°C 03: 3°C
10	Reverse output	OFF	OFF/ON
11	Program Options	5+1+1	00: 7 Day Individually 01: 5 Day Together + Sat +Sun
12	Adaptive Function	OFF	00: OFF 01: ON
13	Factory Reset	NO	00: No (Don't reset) 01: Yes (Reset)

Press POWER twice to return to normal screen or allow to time out at any time and your settings will be saved.

Notes

- **Room sensor temperature calibration:** Calibrate the temperature detected by room sensor.
- **Floor sensor temperature calibration:** Calibrate the temperature detected by floor sensor.
- **Frost protection:** If the frost protection function is selected, the screen will display "❄" when the thermostat is OFF. It will keep the room and floor at a low temperature in order to protect pets and plants

and prevent water pipes in the room from freezing.

- **Sensor selection:** The room sensor is used to control the room temperature. The floor sensor is used to control the floor temperature. By using both of them, you can not only control the room temperature but also avoid high floor temperature.
- **Floor temperature limitation:** When you choose both sensors, you can set the maximum floor temperature value, system will stop heating if the floor temperature exceeds this value.
- **Temperature unit:** °F and °C can be selected.
- **Output delay:** The time period between heating on and off due to temperature change.
- **Differential Temperature Setting:** The deviation is 1°. This means If you set a temperature value, the heating temperature will be 1° lower than the set temperature. The system will stop heating when the

temperature is 1° higher than the set temperature.

- **Reverse output:** This function works with a cooling system. When the temperature is higher than set temperature, the thermostat will switch on the cooling system and vice versa.
- **Programming Options:** there are two Modes for you to choose, 5+1+1, (5 days together +Sat +Sun) and 7 days (where each day can be programmed individually).
- **Adaptive function:** There is a new ECO DESIGN directive for timerstats. The timerstat will calculate the temperature differential between time periods for 3 days. Then it will pre-heat or cool down accordingly so your floor is at the required temperature at the start of the next time period.
- **Factory Reset:** All setting parameters are restored to default values.

Wiring Instructions

This Timerstat should only be wired by a 'Part P' qualified Electrician as required by IEE regulations. The power supply must be on an RCD protected circuit and connected via a correctly fused switched fused spur isolator. **Guarantee is void if these provisions are not followed.**
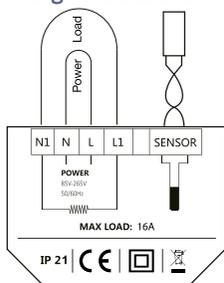
Before connecting, please test the resistance of the heating cable/s against the values shown in the relevant installation manual to make sure the cable hasn't been damaged. Also test between live/earth and neutral/earth for a zero reading. The wiring terminals will only take a maximum of 2 wires - more than this should be connected via a junction box. Mains earth and heating cable earth should be connected behind the timerstat using a block connector. Please contact 0113 2577 588 for advice if required.

Installation Instructions

- We recommend that the timerstat is not opened until the wiring has been connected as shown in the wiring diagram above.
- Loosen fixing screw on the base of the timerstat and separate the front from the back. There is no need to disconnect the connection lead. Fix the back section to the backbox with the screws provided.
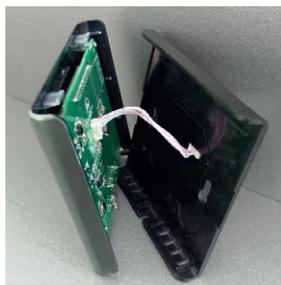
Note: The connection lead can be disconnected on the screen circuit board if required by carefully removing the plug from the socket.

- Reassemble the front to the back by locating the lugs at the top and pushing in the bottom - and tighten the fixing screw.