

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

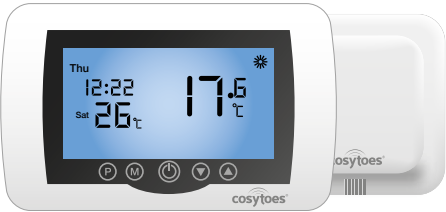
Address: Bramley House, Bath Lane, Bramley, Leeds, LS13 3BB.

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.

Wireless Timerstat [WTS3]



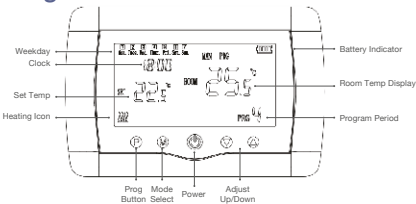
Functions:

- Large display can be clearly read with the background lighting.
- Easy to use.
- 4 programmable periods each day (5+1+1)
- Floor Sensor for high temperature protection.
- The display shows the set and actual room temperature and time.
- Temperature display in degrees Celsius.
- The transmitter can be wall mounted or free standing.
- Recessed discrete receiver.
- Manual and temporary override.

Technical Data:

Transmitter Operating Voltage:	2 x AAA 1.5 V, Alkaline batteries
Backup Storage:	EEPROM
Receiver Current Load:	16A ~ 3600w capacity
Frequency:	868MHz
Channel selection:	By programming the thermostat and the receiver
Switching options:	5+1+1 day, 4 periods each day
Temperature settings:	5°C ~ 35°C, 0.5°C increments
Accuracy:	+/- 0.5°C (+/- 1°F)
Thermostat dims:	Surface mounted, 135x88x22mm
Receiver dims:	Recessed, 86x86x23mm
Color:	White
IP protection rating:	20
Certification:	CE

Design:



The timerstat consists of two parts:

An electronic transmitter with digital display, controls and built-in room temperature sensor.

A recessed wall mounted receiver complete with floor sensor.

Time, Day and Program Setting

To set the time and day (Pic 1):



- Press PROGRAM and hold for 3 seconds, the minutes flash, change the values by using UP/DOWN buttons.
- Press PROGRAM button again, the hour flashes, change the hour by using UP/DOWN buttons
- Press PROGRAM button again, the day flashes, use

UP/DOWN button to change the day number. 1 = Monday and 7 = Sunday.

- Press the POWER button on the thermostat to save this function and leave the menu.

Programming for daily use:

- Monday to Sunday (1~7), each day has 4 periods time periods (1~4). (Note Press PROGRAM button to access subsequent settings. First it will access P1 start time, then P1 temperature, then P2 start time, then P2 temperature etc. The temperature is the room temperature so a typical on setting is 21c to 25c and an off setting of 16c or less. So if you want a time period on, put the temperature up and if it needs to be off, put the temperature down. Do not try to eliminate time periods or the timerstat will not work properly. (The floor sensor connected to the receiver will prevent the floor getting too hot.)
- In 'ON' mode, press PROGRAM and hold for 3 seconds, to enter clock set mode, then press

PROGRAM three times to enter programming mode – see Pic.2. The time display for P1 will flash, change the value as required by pressing UP/DOWN buttons

- Press PROGRAM again, the temperature display will flash, change the values by pressing UP/DOWN buttons.
- Press PROGRAM button again, and repeat the process for P2, P3 and P4. (Note, do not try to eliminate time periods.) (Days 1 – 5 have now been completed)
- Press PROGRAM again and repeat the same method for Saturday and then PROGRAM again for Sunday programming.
- Press the POWER button on the thermostat to save this function and leave the menu.

Example:

	Monday - Friday			
Period	1	2	3	4
Time	6:30	8:00	18:00	22:30
Temp	21°C	18°C	21°C	16°C

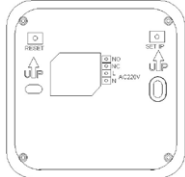
	Sunday			
Period	1	2	3	4
Time	9:00	12:00	19:00	0:00
Temp	23°C	21°C	16°C	21°C

	Saturday			
Period	1	2	3	4
Time	8:00	10:00	18:00	23:00
Temp	21°C	21°C	21°C	16°C

Manual Override:

- In program mode 'PRG', if the temperature is adjusted, the temperature will hold as required and then reverts to programmed temperature at the end of the current time period.
- Press the 'M' button 'MAN' and then adjust the temperature for permanent hold. Press the 'M' button again to revert to 'PRG'. Should the 'M' button be pressed again the temperature displayed will be as previously set but can be adjusted as required.

IP Address Setting:



The receiver has an ID SET IP button to link it with the thermostat, which in turn has a response button to link it. This linking has usually already been activated. Should this not be the case, the following steps can be taken.

- Press the SETIP button on the receiver; the green LED light will flash.

- Turn off thermostat handset, press and hold the MODE button for 3 seconds.
 - You will see ID code (four digit number) show on the top left. Press MODE again, and the LED light on the receiver will stop blinking.
- The thermostat and the receiver are now linked.

Protection Setting:

Low Temperature Protection:

When the room temperature (Internal Sensor) lower 5°C, thermostat will start heating.

High Temperature Protection:

When floor sensor probe floor temperature over set point (35°C as default), thermostat will stop heating no matter if room temperature has arrived at the set point or not.

About Alarm:

When “ALARM” flashes, it means the external sensor has a problem, please check if the floor sensor is connected or damaged.

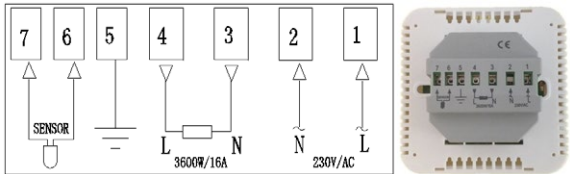
When both “ALARM” and SIGNAL STRENGTH icon flash, then the wireless communication between transmitter and receiver has a problem.

Parameter Setting

- To access parameter settings, in 'off' mode, press MODE and UP buttons simultaneously for 10 seconds until 03 appears.
- Each press of the MODE button will go to the next item.

Menu	Description	Range	Default
03	Set Point Max	5°C ~ 50°C	35°C
04	Set Point Min	5°C ~ 50°C	5°C
09	High Temp Protection Setting	5°C ~ 80°C	35°C

Connection Diagrams



Mounting

IMPORTANT: Don't forget to remove plastic protection film from screen.

