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.
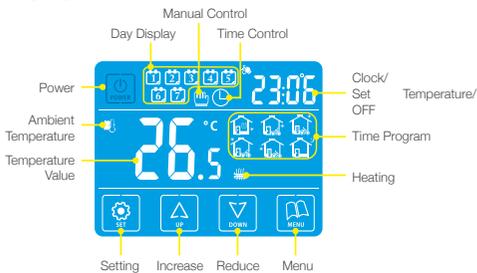
Gloss Touch-Screen Stat [CGW/CGB]

Please Note: This timerstat is defaulted to 'Room Temperature'. You should go into Advanced Settings - 2Sen - Sensor Selection and set the new default to 'OU' (floor probe) for use with underoor heating.
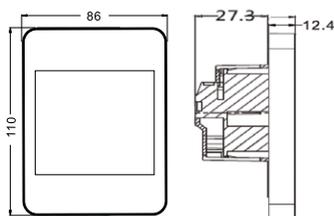
Technical Data

Consumption:	<2W
Power Supply:	85~265VAC 50/60Hz
Output Switch:	Active contact (NO) and passive contact (NO)
Max. Current:	18Amp MAX (Resistive load)
On/Off Differential Temp:	0.5~5°C
Transport and Storage Temp:	-20~60°C
Relative Humidity:	10~90% (No Condensation)
Setting Temp:	5~35°C/0.5°C per step
Accuracy:	1°C
Temp Limitation:	30~60°C (External Sensor)
Wiring Port:	2.5mm² Max
Working Temp:	0~50°C

Display Overview

Manual Control

Day Display   Time Control

Power

Ambient
Temperature

Temperature
Value

Clock/
Set
OFF   Temperature/

Time Program

Heating

Setting   Increase   Reduce   Menu

Dimensions

General Settings

Power on/off:
- Press POWER to turn on or off.
- When the power is off, the display shows "OFF" and the current time alternatively.
- When the power is on, the display shows the set temp and the current time alternatively.

Adjust the set temperature:
- Press UP/DOWN to adjust the temp during manual control and temporary control modes.

Key-lock function:
- In the "ON" state, press and hold SET for 3 seconds until "LOC" displays. Repeat to unlock the controller.
- *Note: If mains power is switched off when in key-lock,* *when power is switched on again the power button will not work.*

Time and Week Setting:
- Ensure the unit is in the "ON" state.
- Press SET and then press UP/DOWN to adjust the minutes, then press SET to amend the hour, and press SET to set the day of the week.
- Press POWER to save and exit the settings.

Time Program:
- Ensure the unit is in the "ON" state.
- Press and hold MENU for 3 seconds.
- Press UP/DOWN to adjust the time for period 1.
- Press MENU again to adjust the related temperature using UP/DOWN.
- Press MENU to adjust the next time period and continue until all periods are set.
- Press POWER to save and exit the settings.

Control Mode:
- Press MENU to switch between manual or time program control modes.
- In time control mode, keep pressing UP/DOWN to enter temporary temperature override mode.

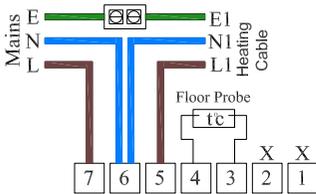| Time Periods			Default Time	Default Temp
Weekdays	1	Period 1 - Wake up	06:00	22°C
	2	Period 2 - Leave in the morning	08:00	
	3	Period 3 - Return over lunch	11:30	
	4	Period 4 - Leave after lunch	12:30	
	5	Period 5 - Return later afternoon	17:00	
	6	Period 6 - Sleep	22:00	
Weekend	1		08:00	
	2	Period 2 - Leave in the morning	23:00	

Advanced Settings

- *Note - These are normally set by technicians during initial installation.*

- In the "ON" state, press and hold MENU and then press POWER for 3 seconds to enter advanced settings.
- 1 Adj will show on the screen.

1 Adj - Probe temperature compensation
- Press UP/DOWN to adjust during range -9~9°C.

- Press MENU to enter the next setting.

2 Sen - Sensor Selection
- Press UP/DOWN to choose the sensor.
- "IN" = The internal Sensor.
- "OU" = The external sensor.

- "AL" = Both internal and external sensors. (Note: Use "OU" for UFH)
- Press MENU to enter the next setting.

3 Lit - Limitation temperature of external sensor
- Press UP/DOWN to change the limit temperature (35°C recommended).

- Press MENU to enter the next setting.

4 Dif - Differential Temp
- Press UP/DOWN to adjust the differential temperature range 0.5~5°C.

- Press MENU to enter the next setting.

5 Prg - 5+2/6+1/7 or off
- Press UP/DOWN to change to 7 day for ease of setting.

- Press MENU to enter the next setting.

6 Rle - Leave on 00

- Press MENU to enter the next setting.

7 Dly - Leave on 0

- Press MENU to enter the next setting.

8 Hit - Max Temp Setting
- Press UP/DOWN to adjust the max temp from 35~60°C (35°C recommended)

- Press MENU to enter the next setting.

9 LIG - Backlight Setting
- Press UP/DOWN to adjust the setting value "ON" or "OFF".

- Press MENU to enter the next setting.

10 LT - Backlight timer
- Press UP/DOWN to set the time for the backlight. It can be set between 10 and 30 seconds. The default is 15 seconds.

- Press MENU to enter the next setting.

11 PE - Button Sound
- Press UP/DOWN to adjust the setting value. "ON" means enable, "OFF" means disable.

- Press MENU to enter the next setting.

12 LP - Frost function setting
- Press UP/DOWN to adjust the setting value. "ON" means enable, "OFF" means disable.

- Press MENU to enter the next setting.

13 TP - Defrost Temp Setting
- Press UP/DOWN to adjust the defrost value at the range of 5°C to 12°C.

- Press MENU to enter the next setting.

14 SF - ON/OFF state of the thermostat
- Press UP/DOWN to change the state of the thermostat. The default is "ON".

15 CF - Temperature Unit Setting
- Press UP/DOWN to switch the temperature unit.
- C = Display temperatures in degrees celsius.

- F = Display temperatures in degrees fahrenheit.
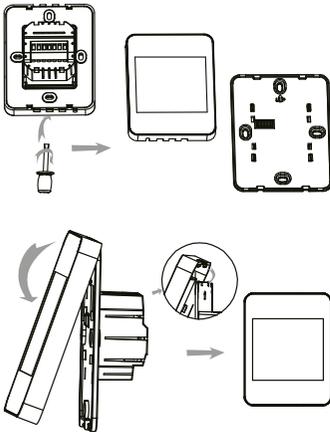
16 AFAC - Recover factory settings
- The symbol "—" will appear on the screen
- Hold UP until it changes to "— —"

- Press MENU to enter the next setting, or press POWER to save and exit advanced settings.

Wiring Diagrams

AC 220 - 250v 18amps

Installation Diagrams

1. To remove the front cover, gently twist the screwdriver clockwise as shown.

2. Use a 38mm deep wallbox and connect wiring as shown in the wiring diagram. The Neutral to the mat connects to the mains Neutral. The heating cable Earth connects to Mains Earth in the back of the wall box.

3. Reconnect the unit as shown. Only reconnect from the top and ensure the internal pins line up before clicking the unit together at the bottom.

Troubleshooting - Error Codes

- **Display Er1:** Internal Sensor Error. The small black thermistor in bottom of front housing has been damaged. Change advanced setting 2 to "OU" to work on floor probe.

- **Display Er2:** External Sensor Error. Floor probe not connected or damaged.