

This thermostat is designed for the control of electric underfloor heating systems. The weekly programming function allows 6 time periods to be set per day, each at a specific temperature. Alternatively this model can be operated in manual mode.

Temperature Sensors

Sensor Selection

To alter the sensor selection from the factory preset setting refer to the advanced settings section.

Sensor Display		
IN	Internal Air Sensor ONLY	Heating will be switched on by the thermostat when the room temperature falls below the programmed temperature. There is NO LIMIT on the temperature the floor can reach.
OUT	Floor Sensor	Heating will be switched on by the thermostat when the floor temperature falls below the programmed temperature.
ALL (Factory Preset)	Air and Floor Sensor	Heating will be switched on by the thermostat when the room air temperature falls below the programmed temperature. The thermostat will cut the power to the heating if the floor temperature rises above the temperature limit set. The value of this limit can be set within the advanced settings (factory set at 35°C)

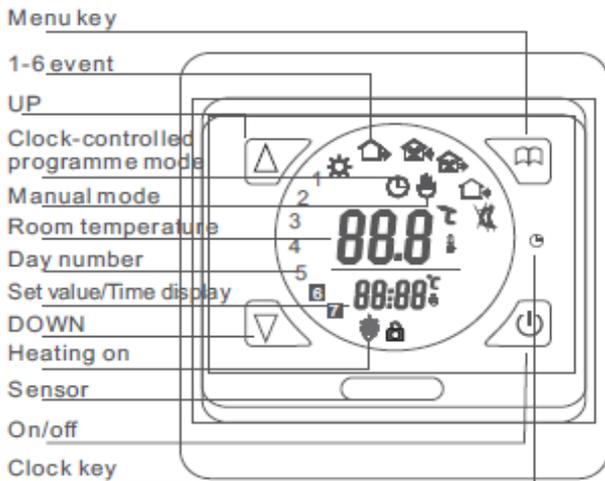
If this thermostat is to be used with any under floor heating system designed for floor coverings other than ceramic, porcelain or stone floor tiles, ensure the limitation temperature value is set in accordance with the value recommended by your floor covering supplier.

Sensor Error Indicator

Please select the correct mode of internal, external sensor. The display will show Er0 or Er1 if the wrong mode is selected or there is sensor failure. Er0 means there is no internal sensor or there is internal sensor failure. Er1 means there is no external sensor or external sensor failure. The thermostat must not be used until the error has been resolved.

Operating Instructions

Display symbols



Technical Data

Power Supply	AC230V
Max Load	16A
Power Consumption	2W
Setting Range	5 - 90°C
Limitation Range	5 - 60 °C (Factory set @ 35°C)
Switching Differential	0.5 - 10°C (Factory set @ 1.0°C)
Ambient Temperature	-5 - 50°C
Protective Housing	IP20
Housing Material	ABS & PC Fire-resistant
Certification	CE & ROHS
Floor Sensor	Rubber-thermoplastic NTC 10K
Internal Air Sensor	NTC 10K

User's Daily Operation

- To switch on or off press
- To temporarily change the operating temperature when in program controlled mode, press or . The temperature will revert back to pre programmed value at the next change of event.
- To adjust the current time, hold for 5 seconds. Press again to select the required object. Press the or keys to adjust time & day, then switch off thermostat for confirmation.
- To change between manual mode & program controlled mode, press
- To lock and unlock hold both the and keys together for 5 seconds. The symbol will appear when locked.
- The large central temperature displayed is the measured temperature. The smaller value underneath which alternates with the time, is the target set temperature.
- To enter advanced settings turn the thermostat off, then hold the key down and press simultaneously.

Thermostat Programming

Periods Programming

Hold the  key for 5 seconds to begin programming. When finished press the  key to exit.

Key	Event	Symbol	Time	Modify	Temp.	Modify	
	Day 1-5	1		06: 00	△	20°C	△
		2		08: 00	▽	15°C	▽
		3		11: 30		15°C	
		4		12: 30	Event Time	15°C	Temp.
		5		17: 00		22°C	
		6		22: 00		15°C	
	Day 6-7	1		08: 00		22°C	
		2		23: 00		15°C	

Function:

-  Manual mode
-  Return(am),event 3
-  Clock-controlled programme mode
-  Leave(pm),event 4
-  Heating on
-  Return(pm),event 5
-  Wake-up,event 1
-  Sleep,event 6
-  Leave(am),event 2

Advanced Settings

Extreme care MUST be taken when adjusting the technical parameters found within the advanced settings. Operation of these functions should only be undertaken by competent people and the following details should be read carefully.

To enter advanced settings turn the thermostat off, then hold the  key down and press  simultaneously.

- 25.3**
1ADJ: Temperature calibration
Press ▲ or ▼ key to adjust present checked value,adjustable scale:9.9°C.
Re-press menu key to enter to next step.

6P rG
6PRG:Set day off mode
Press + or - to choose day off
5/2 day mode,6/1day mode,7 day mode
Re-press menu key to enter to next step.

25 SEN
2SEN:Sensor mode
Press ▲ or ▼ key to choose sensor working mode
IN:built-in, OUT:floor sensor,
ALL:both sensors,floor sensor is the limit sensor
Re-press menu key to enter to next step.

00
7RLE:Potential-free output and main power output in same/different way.
Press ▲ or ▼ key to change the present linkage state.
00:in same way, 01:in different way?
Re-press menu key to enter to next step.

35.0
3LIT: Modify limitation value
Press ▲ or ▼ key to modify the temp.
Limit value/limitation range:5~60
Re-press menu key to enter to next step.

8DLY
8DLY:Delay time of potential-free output
Press ▲ or ▼ key to change linkage delay time
Range:0-5min.
Re-press menu key to enter to next step.

L0
4DIF:Switch differential setting
Press ▲ or ▼ key to change switch defferential
Setting range:0.5~10
Re-press menu key to enter to next step.

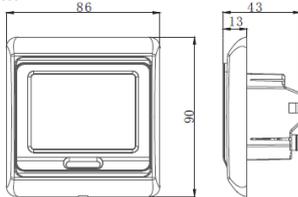
35.0
9HIT:Max. Temperature setting
Press ▲ or ▼ key to change the Max.value
Range:35-90?
Re-press menu key to enter to next step.

OF F
5LTP:Start anti-frozen function in power off
Press ▲ or ▼ key to change the present anti-frozen function
Re-press menu key to enter to next step.

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AFAC:Reset to factory setting
Press ▲ key for 5seconds till showing ---
Reset to factory setting
Switch off for saving setting

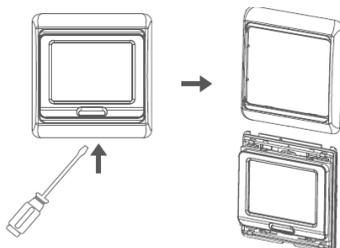
Thermostat Installation

Dimension:mm

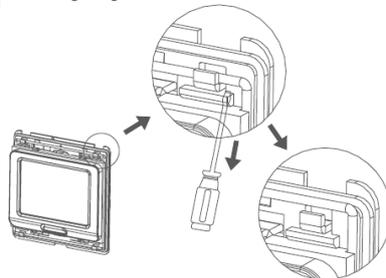


Mounting steps:

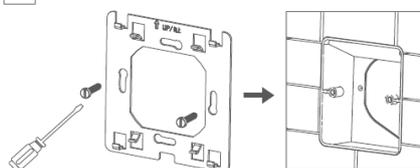
- 1 Release the front cover by inserting a screwdriver into slot on base.



- 2 Take the backing plate apart according to the following diagram.



- 3 Mount the backing plate onto the wall socket.



- 4 Make electrical connections to the thermostat (see below.) Mount the thermostat back onto the backing plate & replace the frame.

