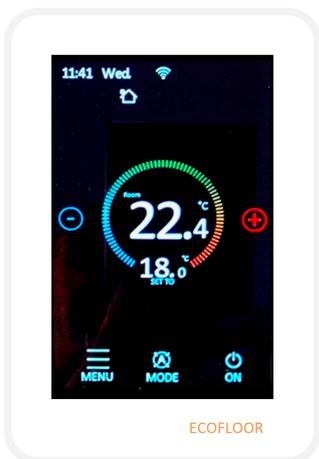


ECOFLOOR THERMOSTAT

Model SK99(W)+



Time and temperature programmable
Wi-Fi thermostatic controller

www.ecofloorheating.co.nz
Telephone (03) 341 6852

Menu Overview

Menu structure

- o User settings
- o WiFi settings
- o Advanced settings
- o Thermostat info
- o Heating schedule

User settings

- o Date
- o Display brightness
- o Time
- o Screen saver
- o Unit
- o Child lock

Advanced settings

- o Temperature control
- o Floor protection
- o Switch differential
- o Sensor selection
- o Open window
- o Factory reset
- o Sensor calibration
- o Floor sensor calibration
- o Adaptive function

Edit settings

- o View/edit floor heating schedule

Wi-Fi settings

- o Setting up Wi-Fi connection

Towel rail

Mounting

- o Fitting the thermostat to the wall

General Operation

Congratulations on your purchase of your new Wi-Fi touch thermostat. We hope you will enjoy the ease offered by the touch screen and the intuitively designed user interface. You can easily program the thermostat in any way you would like with the options provided under the settings and the schedule menus.

Technical Data

Supply: 120 - 240Vac	Load: Main - 16A Resistive
Power: 3.6kW @ 230	Rail - 3A resistive
IPrating: IP20	Maximum wire: 2.5mm diameter
Temperature range: +5/+60C	Ambient temperature: 0/+25/C

Menu Screen

Select the menu screen from the bottom right of the home screen ribbon. From this screen you can access all setting screens .

Time.

Set date and time.

Key Lock.

Locks the screen but not the Wi-Fi access.

Towel rail

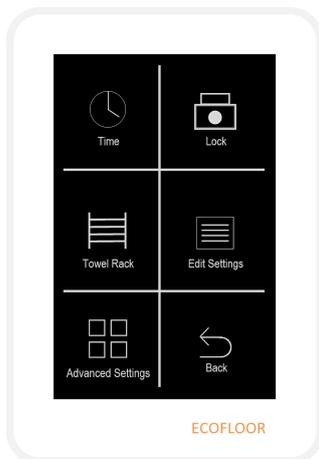
Activates the towel rail feature.

Edit settings.

Setting the on/off times and temperatures.

Advanced settings.

From the advanced settings you access 3 screen pages that comprise of 21 user configurable features. **In these instructions, those features that are default settings are displayed in red.**



Advanced Settings

1. Sensor selection.
Select either source for temperature sensing:
- Air sensing using integral sensor.
- Floor sensing using the supplied floor sensor.
-All (air plus floor limitation).
2. Room temperature calibration.
This permits varying the indicated room temperature by up to +/-5 degrees Celsius. **Default 0 degrees C.**
3. Floor temperature calibration.
This permits varying the indicated floor temperature by up to +/-5 degrees Celsius. **Default 0 degrees C.**
4. Floor limit The temperature of the floor may be varied from 5 degrees C up to 60 degrees C.
5. Schedule.
You can select the schedule format as either
- 5-1-1 format (days)
OR
7 (all days the same).
6. Adaptive start.
Adaptive start is a feature where the thermostat learns when to turn on to get the floor/room to the desired temperature in accordance to the times as set in the Edit Settings menu. It is either **off** or on.
7. Adaptive start time.
This feature permits the turning on of the heating ahead of schedule set in the Edit Settings and is variable between 0 and 40 minutes **Default is 20 minutes.**

8. Open window.
If a window or door is opened and the temperature drops rapidly, this feature turns off the heating temporarily.
9. Sensor type.
The Ecofloor thermostat can be used with a number of different brands of floor sensor. This can be important if the thermostat is being used to replace or upgrade the controller. The sensor is a 10K @ 25 degrees C model but can be used with the following alternatives.
NTC sensors.
- Aube 10k @ 25 degrees C.
- DEVI 15k @ 25 degrees C.
- Eberle 33k @ 25 degrees C.
- Ensto 47k @ 25 degrees C.
- Fenix 10k @ 25 degrees C.
- OJ Microline @ 12k @ 25 degrees C.
- Teplolux @ 6.8k @ 25 degrees C.
10. Anti freeze function.
Anti freeze provides a frost protection feature and defaults all temperature settings temporarily to 5 degrees Celsius while this feature is turned on.
11. Holiday mode.
This sets the thermostat to your desired temperature while you are away. It can be set for a period of 1 to 99 days. To set your holiday mode temperature, press the + and - symbol on the home screen then adjust to the desired temperature.
12. Temperature deviation.
This is the hysteresis between switching states on to off and off to on.

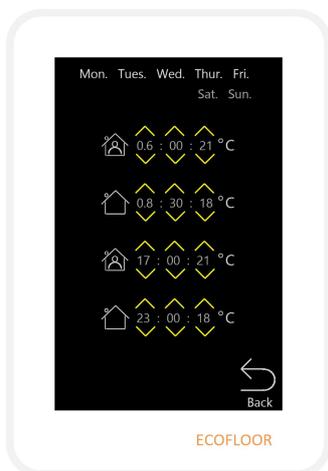
13. Display precision.
This adjusts the value of temperature displayed to the right of the decimal point and can be selected as .1 or .5 increments.
14. This adjusts the value of temperature selection to the right of the decimal point and can be selected as .1 or .5 increments.
15. Display when thermostat OFF.
This enables the selection of what is displayed on the home screen when the thermostat is switched off.
Some details will always display on the screen, but there are some options that are selectable, as follows.
- **Show OFF** (no optional detail displayed).
- Show Temperature.
- Show nothing (same as show off).
16. Temperature units.
Thermostat can be set for **Celsius** or Fahrenheit.
17. Power on mode.
three settings; **Keep**, On, Off.
18. Rail control time.
this sets the time that the towel rail stays on once activated.
Selection of **1 hour**, 2 hours, 4 hours are available.
19. Brightness.
the display brightness can be set from 30% to **100%**.
20. Factory Reset.
Resets the thermostat to factory default settings.
21. Horizontal display.
This toggles between horizontal and **vertical** mounting orientation.

Edit Settings

In this screen, set the program time and temperatures.

The minimum selectable temperature is +5 degrees Celsius.
The maximum selectable temperature is 60 degrees Celsius.

This model thermostat permits 4 temperature changes per day.



Home temperature.

This is the temperature you wish to heat to for your comfort



Away temperature.

This is the temperature you will accept the thermostat to drop to when heating is not required for comfort.

Note that the days displayed at the top of the screen will vary depending on your selection made in Advance settings clause 5.

Key Lock

The Key Lock feature temporarily enables a screen lock that prevents tampering or adjusting the temperature from the screen only. It may be unlocked from either the Wi-Fi enabled control device (such as a mobile phone or tablet), or from the thermostat Menu.

Towel Rail

When the Towel Rail icon is selected from the main menu screen, this toggles the towel rail either on or off. If just turned on, the towel rail will remain heated for the full duration of the time programmed that has been selected in [Advanced settings, clause 18](#); Rail control timer.

Error codes

During setup or operation, the display may show either one of the following error codes. In the event of an error code displaying, contact Ecofloor heating on **(03) 341 6852**

ER 1 Built in sensor short circuited or not connected.

ER 2 External floor sensor short circuited or not connected.

WiFi

This thermostat will work on the TUYA non-proprietary Wi-Fi platform. This may be downloaded for free from Android Play Store or from Apple App Store.

o TUYA.

Connecting WiFi.

Install your WiFi App on phone or Tablet (Android or IOS).

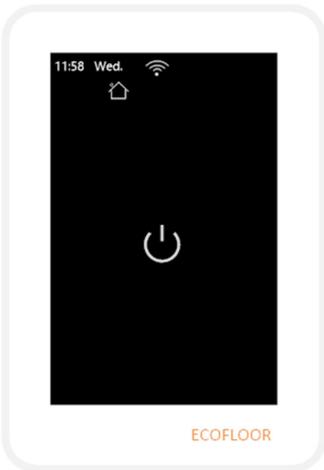
Turn phone Off.

Observe flashing Wi-Fi symbol at top centre of screen indication the thermostat is ready to link to your Wi-Fi router.

Within the App, click Add device.

Enter Wi-Fi credentials and Password.

The thermostat is connected to the Wi-Fi once the Wi-Fi icon stays illuminated in a steady state.



Note: When the thermostat is connected to your Wi-Fi, the Wi-Fi symbol will stop flashing.



Play Store



Apple Store



TUYA Smart

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Warranty

The Ecofloor thermostat is supplied with a 2 year manufacturers warranty from the date of end-user purchase.

The warranty covers replacement or repair of the thermostat only.

To make a warranty claim, the following details are required.

- o Date of and proof of purchase.
- o Installation address.
- o Copy of installer certificate of conformity.

Warranty claim is to be submitted to:

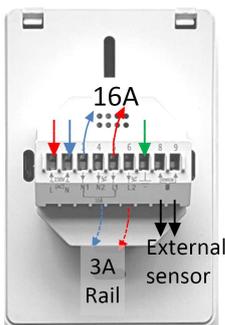
info@ecofloorheting.co.nz

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Installation



Unclip tabs and remove screen assembly.



Wire in the mains input and output(s).



Mount base unit onto mounting box with 2 screws.



Reconnect and remount screen assembly.



Check screen assembly is firmly secured.



apply power to your SK99 Wi-fi thermostat.

Note: The SK99(W)+ Wi-Fi thermostat may be mounted in a vertically orientated NZ flush-box or horizontally orientated NZ flush-box OR European style flush box.