

ECOFLOOR

Time - temperature programmable

electronic thermostat

Model SK99 (EF)

AC230V Imax 16A

Setting Range: 5°C to 35°C

Limitation Range: 5°C to 60°C

Menu Overview

- Menu Structure
 - o User setting
 - o Advanced Setting
 - o Heating Schedule
 - o WiFi Setting
 - o Thermostat Info
- User setting
 - o Date
 - o Time
 - o Display Brightness
 - o Screen Saver
 - o Child Lock
- Advanced Setting
 - o Temperature Control
 - o Room Sensor Calibration
 - o Adaptive Function
 - o Floor Protection
 - o Open Window
 - o Switch Differential
 - o Factory Reset
- Heating Schedule
 - o View / Edit Schedule
 - o Reset to Factory Schedule

General Operation

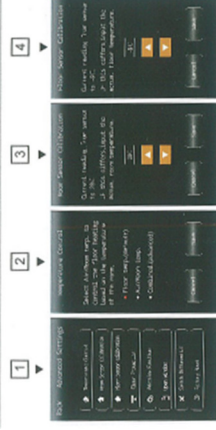
Congratulations on the purchase of your new WiFi Touch Thermostat. We hope that you will enjoy the ease of use offered by the touch screen and the intuitively designed user interface. You can program the thermostat in any way you would like with the options provided under Heating Schedule and User Settings.

Technical Data

Supply: 120-240Vac 50/60 Hz Load: max.16 A (resistive load)
Power: 1800W at 120 Vac, 3120 W at 208 Vac, 3600 W at 240 Vac
IP rating: IP20 Wire diameter: $\geq 2.5mm^2$
Temperature range: +5 to +60°C Amb.temp. range: 0 to +25°C

Advanced Settings

- 1 Advanced Settings**
Under Advanced Settings, you can change the settings of the following items:
Note: If an item is grayed out, it is not available due to other settings.
 - o Temperature Control
 - o Room Sensor Calibration
 - o Floor Sensor Calibration
 - o Adaptive Function
 - o Open Window
 - o Switch Differential
 - o Factory Reset
- 2 Temperature Control**
This screen allows you to choose which sensor is used to control the heating system.
 - o Floor: With this setting, the floor sensor controls the heating system.
 - o Room: With this setting, the room sensor controls the heating system while the floor sensor is used to detect the room temperature.
- 3 Room Sensor Calibration**
This option allows you to calibrate the room sensor.
 - o Use the "Arrow Up" or "Arrow Down" button to set the room temperature actually measured.
 - o Confirm that you want to calibrate the sensor with "Save" or discard it with "Cancel".
- 4 Floor Sensor Calibration**
This option allows you to calibrate the floor sensor.
 - o Use the "Arrow Up" or "Arrow Down" button to set the floor temperature actually measured.
 - o Confirm that you want to calibrate the sensor with "Save" or discard it with "Cancel".



Display Symbols

The function of the buttons and symbols shown on the home screen varies according to the chosen operation mode.



- Scheduled Operation home screen:
1. Program Mode
 2. Time
 3. Day
 4. Current target temperature/setpoint.
 5. Tap here to increase the temperature.
 6. Tap here to decrease the temperature.
 7. Heating Schedule
 8. Heating is activated
 9. Heating is activated
 10. Hold/Holiday
 11. Menu

Icons

Icon	Meaning	Icon	Meaning	Icon	Meaning
	Hold		WiFi		Room Sensor Calibration
	Menu		Date		Floor Sensor Calibration
	User Settings		Time		Floor Protection
	Advanced Settings		Unit		Adaptive Function
	Heating Schedule		Daylight Saving		Open Window
	Factory Reset		Screen Saver		Switch Differential
	Thermostat Info		Child Lock		Heating is activated
			Temperature Control		Heating is activated with adaptive mode

Advanced Settings

- 1 Floor Protection**
This option ensures that the floor temperatures are kept within range.
 - o Choose the floor protection which is relevant for your floor.
 - o If Custom is chosen, you must define minimum and maximum temperatures for the floor.
 - o Use the "Arrow Up" or "Arrow Down" buttons to set the minimum and maximum temperatures.

NOTE: If the minimum floor temperature is set too high, temperature sensitive floor types may be permanently damaged.
- 2 Adaptive Function**
With this feature enabled, the room will already have reached the target/setpoint temperature at the beginning of a scheduled event.
 - o Tap the "OFF/ON" button to the setting that you prefer.
 - o Confirm your choice with "Save" or discard it with "Cancel".



User Settings

- 1 User Settings**
Under User Settings, you can change the settings of the following items.
Note: If an item is grayed out, it is not available due to other settings.
 - o Date
 - o Time
 - o Unit
 - o Screen Saver
 - o Child Lock
 - o Display Brightness
- 2 Date**
This screen allows you to change the date.
 - o Tap the "Arrow Up" or "Arrow Down" button to set the date, month, and year.
 - o Confirm your choice with "Save" or discard it with "Cancel".
- 3 Time**
This screen allows you to change the time, which is used by the clock to control your heating schedule.
 - o Tap the "Arrow Up" or "Arrow Down" button to set the hour, minute, and AM/PM.
 - o Tap the time format that you prefer.
 - o Use 24hr clock.
 - o Sync with network time.
 - o Confirm your choice with "Save" or discard it with "Cancel".
- 4 Unit**
Tap the unit that you prefer:
 - o Fahrenheit.
 - o Confirm your choice with "Save" or discard it with "Cancel".

User Settings

- 1 Display Brightness**
This option allows you to change the brightness of the display.
 - o Select one of the five levels of brightness using the "Arrow Up" or "Arrow Down" button.
 - o Confirm your choice with "Save" or discard it with "Cancel".
- 2 Screen Saver**
This screen allows you to select the time delay of the Screen Saver.
 - o Confirm your choice with "Save" or discard it with "Cancel".
- 3 Child Lock**
The child lock prevents children and others from tampering with the thermostat and changing any of its settings.
 - o Tap the "OFF/ON" button to the setting that you prefer.
 - o Confirm your choice with "Save" or discard it with "Cancel".

Advanced Settings

- 1 Switch Differential**
This option allows you to change the switch differential.
 - o Use the "Arrow Up" or "Arrow Down" button to set the switch differential range.
- 2 Factory Reset**
This option allows you to restore the thermostat to factory settings. Note! The action cannot be undone, and all of your personal settings will be lost.
 - o Tap "Reset Thermostat" if you want to restore the factory settings.
 - o A confirmation screen will be displayed.

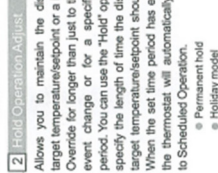
Note! All personal settings will be lost.

- 3 Heating Schedule**
The heating schedule allows you to control the temperature automatically according to a programmed schedule of your choice.
 - o Tap the "View/Edit Schedule" button to access the various schedule options. Tap the "Reset to Factory Setting" button if you want to restore the factory settings.
- 4 Heating Schedule 1/2**
This screen consists of a list of four events. The first event is the time you want your floor heating to turn on in the morning. The second event is the time you want your floor heating to turn off in the morning. The third and fourth events will control the evening and night heating.
 - o Tap the "5/2" button to toggle between programming each day separately or having weekdays as one setting and weekends at different times.
 - o Press the arrow to change the day(s) you are programming.

Advanced Settings



- 1 Heating Schedule 1/2**
- To change the start time for the event, tap the "Arrow Up" and "Arrow Down" buttons.
 - To change the temperature for the event, tap the "Arrow Up" and "Arrow Down" buttons.
 - To toggle between the event being active or inactive, tap the "The event is active" or "The event is inactive" button. The text shown on the button reflects the current activity status of the event.



- 2 Hold Operation Adjust**
- Allows you to maintain the displayed target temperature for a Manual Override for longer than just to the next event change or for a specific time period. You can use the "Hold" options to specify the length of time the displayed target temperature should last. When the set time period has elapsed, the thermostat will automatically revert to Scheduled Operation.
- Permanent hold
 - Holiday model

WiFi Connection



- Step 1:** Scan the QR code through a browser or download the APP from the major application markets to install it. Simply search for "Smart Life". You can also control your Howire Floor Heating via Your Google Home or Amazon Alexa. Once the app is downloaded and connected simply follow the instructions on the screen.
- Step 2:** Click the APP, log in through the registered phone number or email address.

The **ECOFLOOR** model thermostat is for use with **ECOFLOOR** under tile cable Kit models

- 02-120225
- 02-120525
- 02-120700
- 02-120875
- 02-121000
- 02-121250
- 02-121450
- 02-121800
- 02-122200

