

harmoni



harmoni touch series thermostat

Instruction manual



Download the App

The Harmoni Touch+ is Wi-Fi enabled and can be controlled via an app on a smartphone.

The app is compatible with iOS & Android, and can be downloaded using the QR code opposite.



Contents

Introduction	4
Technical specifications	4
Installation	5
Wiring instructions	6
Thermostat symbols	7
Wi-Fi connection	8
Operation & functions	10
Troubleshooting	16
Dimensions	17

Introduction

The **Harmoni Touch** is an intuitive programmable thermostat range used to control either electrical or water underfloor heating systems.

It will keep the room at a comfortable temperature whilst minimising energy use. The Touch+ is Wi-Fi enabled and the heating system can be controlled remotely via the app installed on a smart phone.

Technical specifications

	Electric	Water
Supply voltage	85–265Vac 50/60Hz	85–265Vac 50/60Hz
Standby power	<2W	<2W
Max load	16A	3A
IP class	IP21	IP21
Cable specification	≤2.5mm ²	≤2.5mm ²

Installation

STEP 1



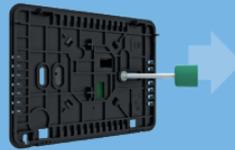
Separate the panel from the back section: insert a screwdriver into the two holes at the bottom of the backplate and prise it open

STEP 2



Connect the thermostat according to the wiring instructions on page 6

STEP 3



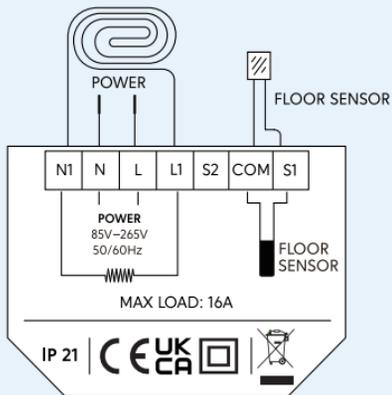
Insert the back panel into the wall box and fix with the screws provided

STEP 4



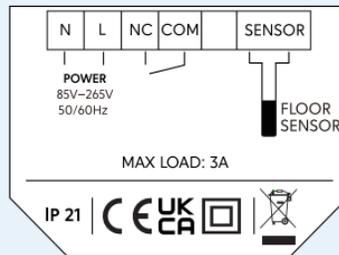
Re-install the front panel whilst ensuring the pins engage properly in the circuit board socket

Wiring instructions



Electric underfloor heating
16A

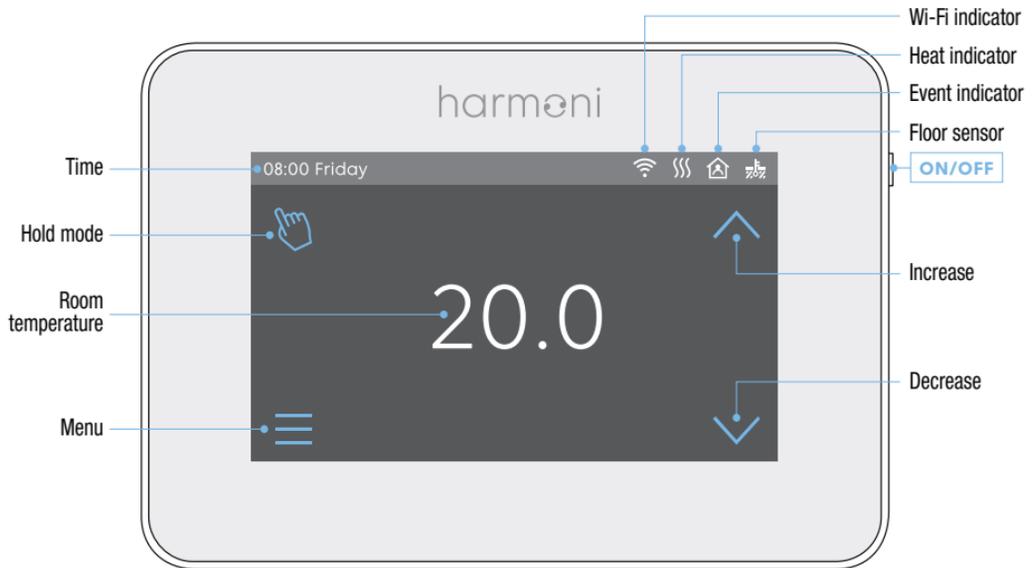
 Ensure power is disconnected when wiring



Water underfloor heating
3A

Note: Please keep the maximum load to around 90% of 16A to prolong the lifetime of the system

Thermostat symbols & buttons

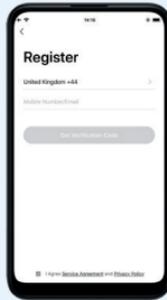


Wi-Fi connection



1

Scan the QR code or download from the APP store/Google Play



2

Register and log in to the APP with mobile number/ email address



3

Click 'Add Device' or '+' on the top-right to add device



4

Click 'Wi-Fi thermostat'

Note: Please read and agree to the 'Privacy Policy & Service Agreement' before registration.



5

Operate thermostat. If the Wi-Fi icon flashes quickly, Click 'Press to connect'



6

Enter Wi-Fi password then click 'Confirm'



7

If device is successfully added, device name can be changed and region set. Then click 'Done'



8

Check the actual temperature and set temperature etc., on the control interface

Note: If failed, confirm the Wi-Fi is 2.4G version and check the Wi-Fi signal then use the 'AP mode' in the top right to connect again.

Operation & functions

ON/OFF

Press the button on the right edge of the thermostat to turn on/off.

Note: When frost protection is active, the thermostat will maintain the frost protection temperature even when the power is off.

TEMPORARY OVERRIDE TEMPERATURE

With the screen displaying room temperature, press  or  to change the current event temperature setting. The thermostat will revert to the scheduled parameters at the start time of the next event in auto mode.

MODE SELECTION

In the page of detected temperature, press the key in the up left corner to select the mode. There are 3 modes:

Auto mode: It is the default mode. Thermostat runs according to event parameters set in Edit Setting to save energy

MAIN FUNCTIONS

- Auto mode
- Hold mode
- Holiday mode
- Anti-frozen mode
- Floor temperature limit
- Open window detection function
- Key lock
- Brightness
- Sensor selection
- Adaptive function

MODE SELECTION

With the screen displaying room temperature, press  in the upper left corner to select the mode.

There are 3 modes:

 **Auto mode:** This is the default mode. To save energy, the thermostat runs according to event parameters set in Edit Setting.

 **Manual mode:** Runs with the set temperature until altered. Follow these steps:

- Press Manual Mode to enter temperature setting
- Press  or  to set the temperature
- Press  to confirm and return to the screen displaying room temperature

 **Holiday mode:** Runs with the set temperature until the holiday period ends. Follow these steps:

- Press Holiday Mode to enter holiday setting
- Press  or  to set the days of holiday
- Press  to confirm and enter holiday temperature setting

MENU

With the screen displaying room temperature, press  in the bottom left corner to enter Menu.

There are 5 parameter settings.

1: Time

Day and clock are set here.

- Press Time to enter day setting
- Press the day you want to enter hour setting
- Press  or  to set hour
- Press  to confirm and enter minute setting
- Press  or  to set minute
- Press  to confirm and go back to Menu
- Press  to return to the screen displaying room temperature

Note: If the thermostat is Wi-Fi enabled it will update the time automatically after connecting to Wi-Fi.

2: Key lock

Lock all keys to prevent settings from being changed.

Lock Steps:

- Press Key Lock to enter key lock setting
- Press  or  to select lock
- Press  to confirm and return to the screen displaying room temperature

Unlock steps:

- On the screen displaying room temperature, press any key then the  in the bottom right corner will flash 3 times
- Press and hold  for 3 seconds to unlock

3: Brightness

This option allows the brightness of the display to be changed.

- Press Brightness to enter brightness setting
- Press  to move up/down or touch any part of the line to set the brightness
- Press  to confirm and back to the Menu

4: Edit setting

Edit Setting can set and change the parameters. If Holiday Mode or Hold Mode isn't chosen, the thermostat runs according to the parameters of Edit.

- Press Edit Setting to enter days selection
- Press the required day to set
- Press  to enter event selection
- Press the required event to set and enter the start time hour setting
- Press  or  to set start time hour
- Press  to confirm and enter the start time minute setting
- Press  or  to set start time minutes
- Press to confirm and enter temperature setting
- Press  or  to set temperature
- Press  to confirm and return to event selection
- Press  to return to the screen displaying room temperature

DEFAULT PARAMETERS IN EDIT MODE

The table below shows the default parameters.

Day	Wake	Leave	Back	Sleep
Mon–Fri	07:00 22.0°C	08:30 19.0°C	17:00 22.0°C	22:00 19.0°C
Sat/Sun	08:00 22.0°C	08:30 22.0°C	17:00 22.0°C	22:00 19.0°C

ADVANCED SETTING

The thermostat provides advanced settings to suit a range of special situations which are normally set by a technician during initial installation.

- Press Advanced Setting to enter the warning screen
- Press  to enter the advanced setting screen
- Press  or  to switch screen
- Press the item to set its parameters

No.	Name	Default	Ranges
1	Room temperature calibration	0°C	-5°C to 5°C
2	Floor temperature calibration	0°C	-5°C to 5°C
3	Anti-freeze function	ON	OFF/ON
4	Anti-freeze temperature	5°C	5°C to 15°C
5	Floor temperature limit	30°C	20°C to 50°C
6	Temperature tolerance	1°C	0.5°C/1°C/2°C/3°C
7	Temperature unit	°C	°C/°F
8	Sensor selection	Floor sensor	Room/Floor/Both
9	Schedule	5 +1+1	5+1+1/7
10	Output delay	0 seconds	0/30/60/90 seconds
11	Adaptive function	OFF	OFF/ON
12	Open window	OFF	OFF/ON
13	Power set	0W	0W to 4500W
14	Energy use		
15	Sensor type	0: 3950	0: 3950 1: 3380 2: 3700 3: 3600 4: 3740
16	Factory reset	NO	NO/YES

- 1 **Room temperature calibration:** Calibrate the temperature detected by the room sensor.
- 2 **Floor temperature calibration:** Calibrate the temperature detected by the floor sensor.
- 3&4 **Anti-freeze function:** This option is ideal for warming plants and pets with a lower temperature. ❄️ displays when the thermostat is switched off.
**It can also protect the pipework from freezing when using a water heating system.*
- 5 **Floor temperature limit:** If both sensors are chosen, the maximum floor temperature value can be set and the system will stop heating if the floor temperature exceeds this value.
- 6 **Temperature tolerance:** Default value is 1°C. The thermostat starts when the room temperature is 1°C lower than set temperature and stops when the room temperature is 1°C higher than set temperature.
- 7 **Temperature unit:** °C and °F can be selected.
- 8 **Sensor selection:**
 - Room sensor: Run by room sensor
 - Floor sensor: Run by floor sensor
 - Both sensors: Run by room sensor with floor temperature limit

- 9 **Schedule:** Select a weekly schedule for the Edit Setting. There are 2 options:
 - 7: Each weekday from Monday to Sunday can be set individually.
 - 5+1+1: Weekdays, Monday to Friday have the same events; Saturday & Sunday can be set individually.
- 10 **Output delay:** This option helps avoid inadvertent operation on heating.
- 11 **Adaptive function:** After several days of installation and use, the adaptive function learns that the required temperature has already been reached when the next event begins.
- 12 **Open window:** This function only works when in Room Sensor or Both Sensors mode. When a window is opened, this function detects the sudden change in room temperature and automatically switches off the thermostat for 15 minutes.
- 13& **Energy use:** This option allows various data to be entered and used to calculate energy use.
- 14

Continued overleaf 

- 15 Sensor type:** This thermostat is compatible with the following five floor temperature sensors. The default sensor 0–3950 is in the box.

Temperature	The resistance value of the floor sensor at the corresponding temperature point (Ω)				
	0–3950	1–3380	2–3700	3–3600	4–3740
0°C	32800	26050	30286	34423	34720
10°C	19733	17630	19055	22217	22328
25°C	10000	10000	10000	12000	12000
30°C	7905	8331	8165	9869	9854

- 16 Factory Reset:** All parameters are restored to default value.

Troubleshooting

If you are experiencing problems with your Harmoni thermostat please call our technical department on 01473 559088.

COMMON ERROR CODES

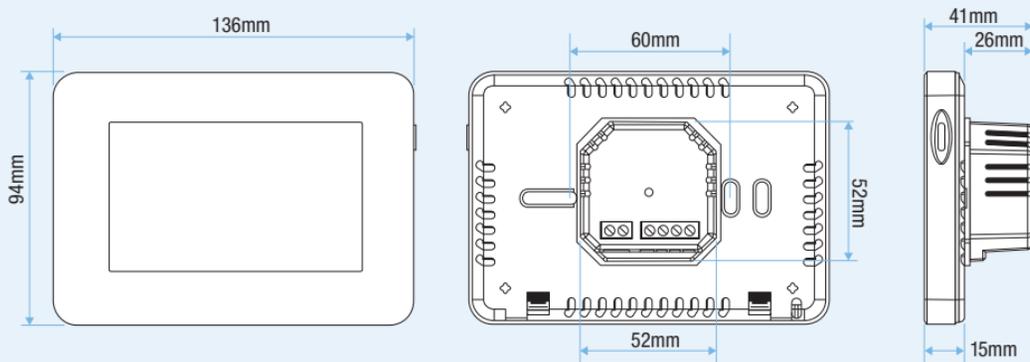
E1: Room sensor error

E2: Room sensor error

16

Dimensions

All dimensions are specified in mm.



Harmoni product range

Discover Harmoni Heating's premium range of energy efficient, intuitive and well-designed heating solutions with clean, energy-saving technology at the heart of every product.

**ELECTRIC
RADIATORS**



**ELECTRIC
TOWEL RAILS**



**ELECTRIC
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