harmoni

harmoni pro series thermostat

Instruction manual

WiFi™

Download the App

The Harmoni Pro+ 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

The Harmoni Pro series is an intuitive programmable thermostat used to control either electrical or water underfloor heating systems.

It will keep the room at a comfortable temperature whilst minimising energy use. Install the app on a smart phone to control the heating system remotely via the Wi-Fi thermostat.

Technical specifications

	Electric	Water
Supply voltage	85 –265Vac 50/60Hz	85 –265Vac 50/60Hz
Standby power	<1W	<1W
Max load	16A	3A
IP class	IP21	IP21
Cable specification	≤2.5mm²	≤2.5mm²

STEP 1

STEP 2

STEP 3

STEP 4

Loosen the fixing screw located in the bottom of the thermostat to remove the front panel

Connect the thermostat according to the wiring instructions on page 6

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

Align the tops of the front and back panel to refit these two parts together. Then retighten the fixing screw

Wiring instructions

POWER

FLOOR SENSOR

| N1 | N | L | L1 | S2 | COM | S1 |

POWER
85V–265V
50/60Hz

FLOOR
SENSOR

MAX LOAD: 16A

IP 21
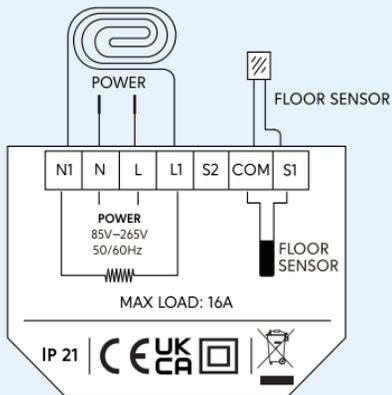
Electric underfloor heating
16A

⚠ Ensure power is disconnected when wiring

| N | L | NC | COM | | SENSOR |

POWER
85V–265V
50/60Hz

FLOOR
SENSOR

MAX LOAD: 3A

IP 21
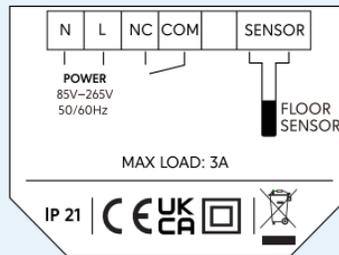
Water underfloor heating
3A

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

Thermostat symbols

Day indicator
Period indicator
Holiday
Hold left
Clock
Degrees Celsius
Degrees Fahrenheit
Floor limit symbol
Advanced setup
Hold parameter edit
Down
Up

Frost symbol
Wi-Fi
Key lock indicator
Floor temperature
Room temperature
Set
Flame symbol
Temperature
Program parameter edit
Holiday parameter edit
Clock parameter edit
Confirm
Return
Power

MON TUE WED THU FRI SAT SUN HOLIDAY
WAKE LEAVE RETURN SLEEP HOLD LEFT

FLOOR TEMP
ROOM TEMP
SET

°C
°F

HIGH TEMP

EDIT   HOLIDAY   HOLD   SETUP

TOUCH CONTROL PANEL

Wi-Fi connection

1

Scan the QR code or download from the APP store/Google Play
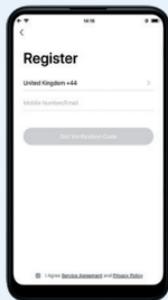
2

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 quickly flashes, 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 (I) 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

The temporary override temperature function is only valid at the current event and it will not be saved.

Press △▽ to set temporary override temperature

Press ( ) to confirm, the screen will return to showing the current temperature

KEY LOCK

Lock all keys to prevent the settings from being changed. On the touch control panel, press and hold ↶ for 3 seconds to lock or unlock all the keys.

SET THE TIME

Note: If the thermostat is a Pro+ (Wi-Fi enabled), it will update the time automatically after connecting to Wi-Fi.

Press ◯ to confirm, then the 🕐 will flash

Press ◯ to enter Day setting

Press △▽ to set Day

Press ◯ to enter hour setting

Press △▽ to set hour

Press ◯ to enter minute setting

Press △▽ to set minutes

Press ◯ to confirm and go back to the day setting screen

Press ↩ twice to go back to the current temperature screen

HOLIDAY MODE

In Holiday Mode, the thermostat will maintain the set temperature until the holiday time ends.

Press ◯ to confirm, then the 🕐 will flash

Press △▽ to select HOLIDAY

Press ◯ to enter holiday days setting

Press △▽ to set holiday days

Press ◯ to enter temperature setting

Press △▽ to set required temperature

Press ◯ to confirm and back to the current temperature screen

Note: Set the holiday days to zero or double press ⏻ to cancel Holiday Mode.

HOLD MODE

In Hold Mode, the thermostat will hold the set temperature until this mode is cancelled.

Press ◯ to confirm, then the [🕐] will flash

Press △▽ to select HOLD

Press ◯ to enter Hold Mode ON/OFF setting

Press △▽ to set Hold Mode ON

Press ◯ to enter temperature setting

Press △▽ to set temperature

Press ◯ to confirm and back to the current temperature screen

> **Note:** Set hold to OFF or double press (I) to cancel Hold Mode.

EDIT SETTING

Edit Setting sets and changes the parameters if Holiday Mode or Hold Mode aren't chosen. The thermostat will then run to the Edit parameters.

Press ◯ to confirm, then the [🕐] will flash
Press △▽ to select EDIT
Press ◯ to enter day selection in edit setting
Press △▽ to select a day
Press ◯ to enter the event selection of the day
Press △▽ to select an event
Press ◯ to select the event's start time
Press △▽ to set the hour of the start time
Press ◯ to enter the minute setting
Press △▽ to set the minute of the start time
Press ◯ to enter the temperature setting
Press △▽ to set the temperature
Press ◯ to confirm and go back to the event selection of the day
Press ⬑ twice or double press (I) to go back to the current temperature screen

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 ◯ to confirm, then the 🕐 will flash

Press △▽ to select SETUP

Press ◯ to enter advanced settings

Each setting can be accessed by pressing ◯ then pressing △▽ to adjust 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 5°C
5	Sensor selection	01: Floor sensor	00: Room sensor 01: Floor sensor 02: Both sensors
6	Floor temperature limit	30°C	20°C to 50°C
7	Temperature unit	00: °C	00: °C 01: °F
8	Output delay	00: 00s	00: 00s 01: 30s 02: 60s 03: 90s
9	Temperature deviation	01: 1°C	00: 0.5°C 01: 1°C 02: 2°C 03: 3°C
10	Reverse output	00: OFF	00: OFF 01: ON
11	Schedule	01: 5 +1+1	00: 7 01: 5+1+1
12	Adaptive function	00: OFF	00: OFF 01: ON
13	Reset	00: No	00: No 01: 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 **Sensor selection:**
00 Room sensor: Run by room sensor
01 Floor sensor: Run by floor sensor
02 Both sensors: Run by room sensor with floor temperature limit

6 **Floor temperature limit:** If both sensors are chosen, floor temperature limit must be set to protect floor.

7 **Temperature unit:** °C and °F can be selected.

8 **Output delay:** This option helps avoid inadvertent operation on heating.

9 **Temperature deviation:** Deviation 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 the set temperature.

10 **Reverse output:** A function for the cooling system. When the temperature is 1°C higher than the set temperature, the cooling system will be disconnected, otherwise the cooling system will be connected.

11 **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.

12 **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.

13 **Reset:** All parameters are restored to default value.

OPEN WINDOW DETECTION

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.

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

Dimensions

All dimensions are specified in mm.

87mm

87mm

60mm

51mm

51mm

42mm

16mm

26mm

Notes

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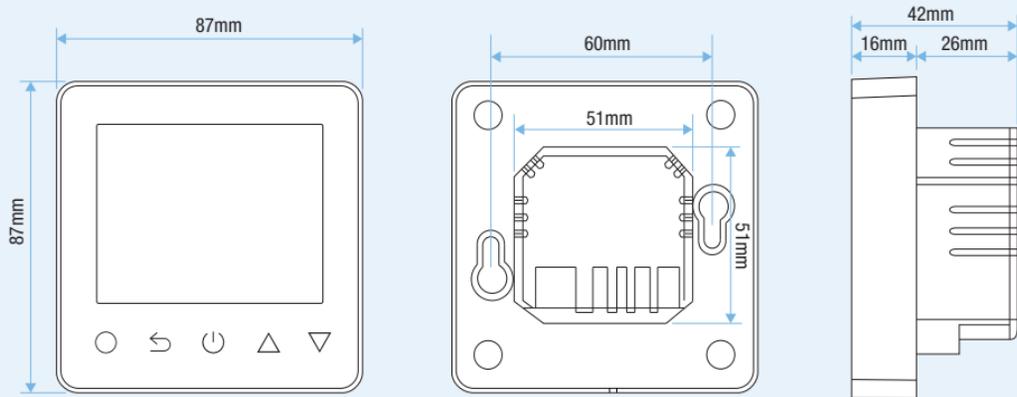
Harmoni product range

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 UNDERFLOOR HEATING | FROST PROTECTION |

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