

INSTALLATION MANUAL

harmoni 100⁺ thermostat



Wi-Fi built-in

Before you begin installing, read through these instructions carefully. Installation must be carried out by a qualified electrician.

www.harmoniheating.co.uk

01473 559088

INTRODUCTION

Important notes, please read carefully before proceeding with installation

The Harmoni brand

Thank you for choosing the Harmoni 100+ Wi-Fi Thermostat from our range of electric underfloor heating solutions.

The Harmoni range of products has been manufactured to surpass all current industry standards. The Harmoni 100+ Thermostat comes with a two-year warranty.

Harmoni 100+ Thermostat

The Harmoni 100+ is a Wi-Fi enabled digital thermostat designed to improve the thermal comfort of your home by providing programming of your underfloor heating system. It receives temperature signals through the following sensors:

1. Air sensor located inside the thermostat.
2. Sensor installed on the floor (check underfloor heating instructions for more details).

This thermostat is not a safety device and should only be used for its purpose. To avoid damaging the floor, you must select the correct floor type during the thermostat programming process.

Important Safety Notes

- This product uses mains voltage and its installation must be carried out by a qualified electrician.
- You should always disconnect the power supply before attempting to install or repair the thermostat.
- It should not be switched on unless you are sure that the entire heating installation complies with the current general requirements for electrical installations.
- The electrical installation must comply with the latest wiring regulations.

Location of Thermostat

- This thermostat must be installed inside an electric wall box that has a depth of at least 35mm
- For optimum performance, this thermostat should be located in an area with good ventilation
- It should not be positioned next to a window or door, in direct sunlight or near a heat source (e.g. a radiator or TV)
- This thermostat is designed to operate between 0°C and 55°C, with a relative humidity below 80%

INSTALLATION

1. Separate the front cover of the thermostat from the wall module
2. Place the front cover in a safe place to avoid damage
3. Pass all the cables to the wall box. Make sure you have included the following:
 - a. Feed (phase and neutral)
 - b. Heating element (phase and neutral or only phase of the switch)
 - c. Floor sensor or air sensor
4. Pass the wires through the wall box and complete the wiring

Important Notes

Make sure the cables are fully inserted into the terminals and tightened securely. All loose wires should be cut as they could cause a short circuit. If more heating elements are connected, an electrical bypass box will be required.

Always make sure that the sensor cable is installed in a conduit separate from the power supply of the thermostat and the heating system.

Assembly

1. Release the front cover
2. Remove the back plate
3. Screw the back plate to the wall box with a screwdriver
4. After connecting the cables (see connection diagram), mount the thermostat to the back plate and replace the housing and frame

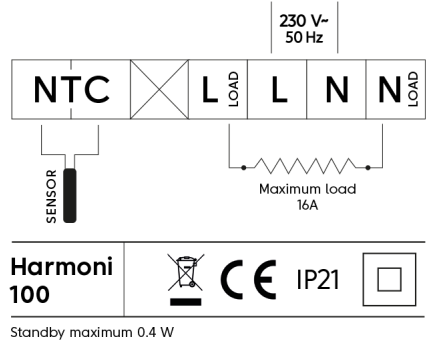
ELECTRICAL DETAILS

Installation must be carried out by a qualified electrician

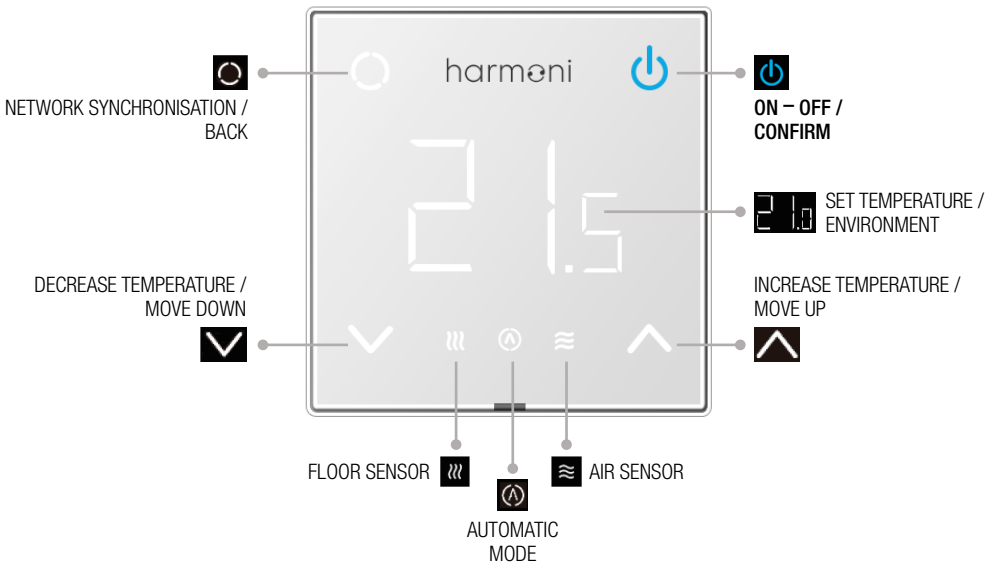
Electrical Specifications

- Supply voltage: 230V +/- 10% at 50Hz
- This thermostat is not designed to be used with an intermittent power supply.
- Maximum load: 16A resistance or 3,680W
- Insulation class: II
- IP21
- Floor sensor: 10 KOhm

Connection Diagram



DISPLAY SYMBOLS



CONFIGURATION & PROGRAMMING

The initial configuration starts when the thermostat is switched on for the first time

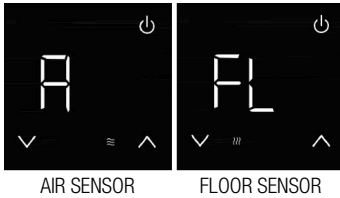
CONFIGURATION

1. Time and Date



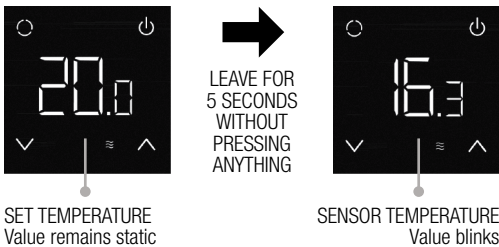
PRESS OR TO CHANGE HOUR/DAY > PRESS TO CONFIRM

2. Select Sensor



PRESS OR TO CHANGE THE SENSOR > PRESS TO CONFIRM

After completing the initial configuration, the thermostat will display the set-point temperature and the temperature read by the sensor.



MENU


Press for 3 seconds to access the menu









- PROGRAMMING → Set a programme or create your own
- TIME & DATE → Set time & day
- OPEN WINDOWS → Turn open windows function On/Off
- ADAPTABLE START UP → Turn adaptable start up On/Off
- TEMPERATURE OFFSET → Perform a temperature offset on the sensors
- LIMIT TEMPERATURE → Set maximum temperature for the sensors
- BACKLIGHT → Modify backlight intensity of sleep mode
- DEFAULT SENSOR → Select the default sensor
- DISABLE FLOOR SENSOR → Disable the floor sensor
- FACTORY RESET → Perform a factory reset

PROGRAMMING

To programme the thermostat, access the Pr1 sub-menu

PROGRAMMING

- To programme the thermostat access the “programming” (Pr1) sub-menu and select ON.
- Next, you will see the 3 pre-programs (P1 - P2 - P3) and one editable by the user (Pu).
- To carry out your own programming, choose Pu and confirm with . Then:

1. SUBMENU SET		SET	Set the setpoint temperatures of the ECO, COMFORT & FROST modes
Set setpoints <ul style="list-style-type: none"> • COMFORT • ECO • FROST-OFF 		CON	Set COMFORT temperature: 19–30 °C Set temperature
		ECO	Set temperature ECO: 7.5–18.5 °C
		FR0 OFF	Set mode FROST (7 °C): OFF
1. SUBMENU SET		PEr	Perform the time schedule
Select time parameters		1d	All days equal
		5–2d	Week / Weekend
		7d	Each day different

PROGRAMMING

To programme the thermostat, access the Pr1 sub-menu

After selecting a time parameter (1d / 5-2d / 7d), set the desired setpoint for each hour.

Hour: 00:00
E: ECO

Hour: 12:00
C: COMFORT

C: Comfort
E: Eco
F: Frost
-: Off

The large digits indicate the time; the small value indicates the mode.
 Press or to go forwards or backwards in time.
 Pressing cycles through the modes.

When the timer passes 00 it moves to the next day.
The screen displays the following day or week / weekend.

← Days → Week Weekend

Press to go backwards.

PRE-SET PROGRAMMES

Pre-set programme 2

	Start	End	Temperature
Period 1	7:00	11:00	21°C
Period 2	11:00	18:00	15°C
Period 3	18:00	23:00	21°C
Period 4	23:00	7:00	15°C

Pre-set programme 3

	Start	End	Temperature
Period 1	8:00	21:00	21°C
Period 2	21:00	8:00	15°C

Pre-set programme 1

	Start	End	Temperature
Period 1	6:00	8:00	21°C
Period 2	8:00	19:00	15°C
Period 3	19:00	23:00	21°C
Period 4	23:00	6:00	15°C

GUARANTEE

The Harmoni 100 Thermostat has a two-year guarantee

Harmoni® guarantees this product will be free from defects in workmanship or materials, under normal use and service, for a period of two (2) years from the date of purchase by the consumer. If during the guarantee period the product is determined to be defective, Harmoni will assume responsibility for repair or replacement. If the product is defective, please:

- a. Return it, with a sales invoice or other dated proof of purchase, to the place from which it was purchased
- b. Contact Harmoni directly, who will determine if the product should be returned or replaced

This guarantee does not cover the costs of removal or re-installation, and will not apply if Harmoni demonstrates that the defect or malfunction was caused by damage occurred whilst in the possession of the end user, by not following the installation or instructions in this manual or during installation. The sole responsibility of Harmoni will be to repair or replace the product within the terms set forth above.

Harmoni® will not be responsible for any loss or damage of any kind, including consequences that result, directly or indirectly, from any breach of any warranty, express or implied, or any other fault of this product. This guarantee is the only one expressed by Harmoni on this product. The duration of any implied guarantee, including guarantees of merchantability and fitness for a particular purpose, is hereby limited to the two years duration of this guarantee as stated above.

This Guarantee does not affect your statutory rights.



WI-FI FUNCTIONALITY

The Harmoni 100+ requires the Harmoni App to use Wi-Fi functionality

The Harmoni App allows the user to control the Harmoni 100+ Thermostat from any smart device. Adjust temperatures and easily program all the advanced functions wherever you are. Also view statistics, check and manage consumption.

The Harmoni App works on both iOS & Android.

It's free to download from Apple or Google Play stores: **search 'Harmoni Heating'**



TROUBLESHOOTING

Contact the Harmoni Helpdesk on 01473 559088

If you have any problems with your thermostat or need assistance with setting it up, please contact the Harmoni Helpdesk on 01473 559088.

NOTES

Use this space to make notes for reference

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