

harmoni

Remote Control



INSTRUCTION & INSTALLATION GUIDE

Introduction

harmoni remote controls are compatible with **harmoni** digital electric radiators, towel rails and water heaters. **harmoni** remote controls are manufactured with quality components designed for you and have passed the most demanding quality controls to meet with the most rigorous safety and efficiency requirements.

Please read this Instruction & Installation Guide carefully to ensure correct operation. It is important that this guide is left with the product after installation.

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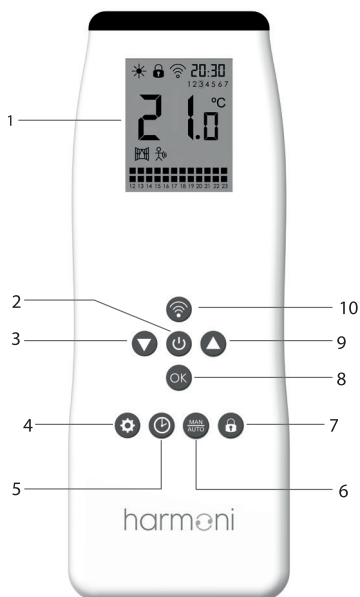
1. harmoni Technical Specifications

MODEL	HSBC21
DIMENSIONS	
Width (mm)	58
Height (mm)	155
Depth (mm)	16
MECHANICAL CHARACTERISTICS	
Weight (g)	98
Finish	White RAL 9010
Cover Material	PC/ABS
Range Operating Temperature	-20 to 55°C
ELECTRICAL CHARACTERISTICS	
Power	3Vdc
Battery Type	2 x 1.5 AAA
COMMUNICATION	
Wireless infrared	✓
Transmitting Range (m)	3
FUNCTIONALITY	
LCD Screen	✓
24 hours/7 days programmer	✓
MANUAL/AUTOMATIC function	✓
Remote Lock	✓
Pre-installed programme keys	✓
Erase programme memory	✓
REGULATIONS	
CE & ROHS	✓

2. harmoni system Information & Instructions

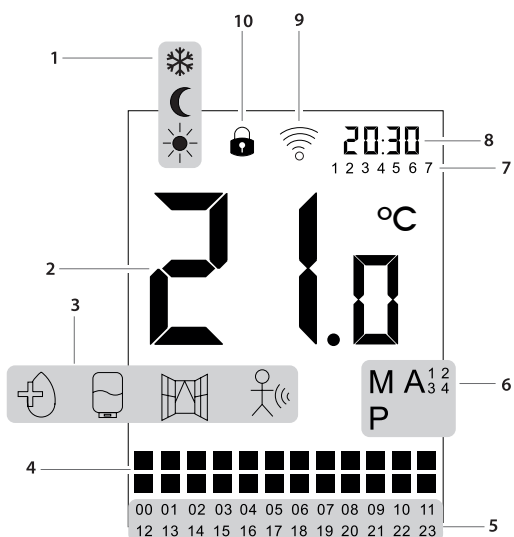
2.1. Keypad









NO.	FEATURE
1	LCD screen
2	Switch on & off (stand-by)
3	Decrease temperature/move down
4	Settings & functions
5	Adjust day/time
6	MANUAL/AUTOMATIC function
7	Lock/unlock keypad
8	Confirm
9	Increase temperature/move up
10	Send & receive data




2.2. Screen



NO.	FEATURE
1	COMFORT/ECO/ANTI-FROST mode indicator
2	Current temperature
3	OPEN WINDOWS/PRESENCE DETECT/ ANTI-LEGIONELLA/HEATING PROGRESS function indicator
4	Programming - Hours of the day selected
5	Programming - Hours of the day available
6	MANUAL/AUTOMATIC/PILOT function indicator
7	Days of the week
8	Time of day
9	Send data indicator
10	Keys locked indicator

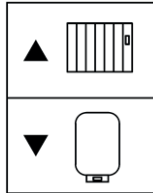


	Keys locked	M	MANUAL function active
	ANTI-FROST mode on	A ^{1 2} _{3 4}	Pre-installed (AUTO) programme active
	ECO mode on	P	PILOT function active (Not available in UK. Only upon demand.)
	COMFORT mode on		ANTI-LEGIONELLA function active
	OPEN WINDOWS function on		WATER HEATING PROGRESS function active
	PRESENCE DETECT function on		











2.3. Switch on & off (stand-by)


To switch the product on, please press the  button once. To switch the product off, please press the  button again.

When you switch the remote on, you will be asked to choose between RADIATOR/TOWEL RAIL or WATER HEATER. To choose RADIATOR/TOWEL RAIL please press the  button or to choose WATER HEATER please press the  button.






2.4. Adjust the day & time




To adjust the day or time of the product, please press the  button. Use the   buttons to select the correct hour and press the  button to confirm. Next use the   buttons to select the correct minute and press the  button to confirm. Then use the   buttons to select the correct day and press the  button to confirm.

To send the new date and time adjustments to the radiator, towel rail or water heater, press the  button with the remote control pointing at the product. The symbol will flash on the screen for 3 seconds.





2.5. Lock the keypad

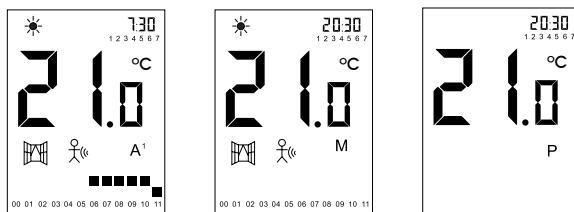
To lock the keypad, please press the  button. A  icon will appear at the top of the screen. To send the lock command to the radiator, towel rail or water heater, press the  button with the remote control pointing at the product.

To unlock the keypad, press the  button again. The  icon will disappear from the top of the screen. To send the unlock command to the radiator, towel rail or water heater, press the  button with the remote control pointing at the product.

4.6. Select either the MANUAL, AUTOMATIC or PILOT mode (pilot mode only available upon demand)

To select either the MANUAL, PILOT and AUTO 1, AUTO 2, AUTO 3 and AUTO 4 modes you need to press the  button and keep pressing until the mode you want is highlighted.




On the display panel, the  icon will appear when you are in one of the AUTO modes (1-4), the M icon will appear when you are in MANUAL mode and the P icon will appear when in PILOT mode.






4.6.1. MANUAL mode




When MANUAL mode is selected the set temperature, MANUAL mode icon, COMFORT/ECO/ANTI-FROST icon and the time/day of the week will be displayed on the screen.


In MANUAL mode you can choose a set temperature and the corresponding COMFORT/ECO/ANTI-FROST icon will appear on the screen according to the ranges below:

RADIATOR & TOWEL RAIL RANGES	
 COMFORT	19 - 30 °C
 ECO	7.5 - 18.5 °C
 ANTI-FROST	7 °C

WATER HEATER RANGES	
 COMFORT	55 - 73 °C
 ECO	40 - 54.5 °C
 ANTI-FROST	7 °C

To adjust the set temperature:

Use the   buttons to either increase or decrease the temperature respectively. When you choose a temperature in the table above, the corresponding icon will appear on the screen. To send the temperature adjustment to the radiator, towel rail or water heater, press the  button with the remote control pointing at the product.

When the room temperature is lower than the set temperature on the display panel, the radiator, towel rail or water heater will display the -symbol in the top right of their screen.

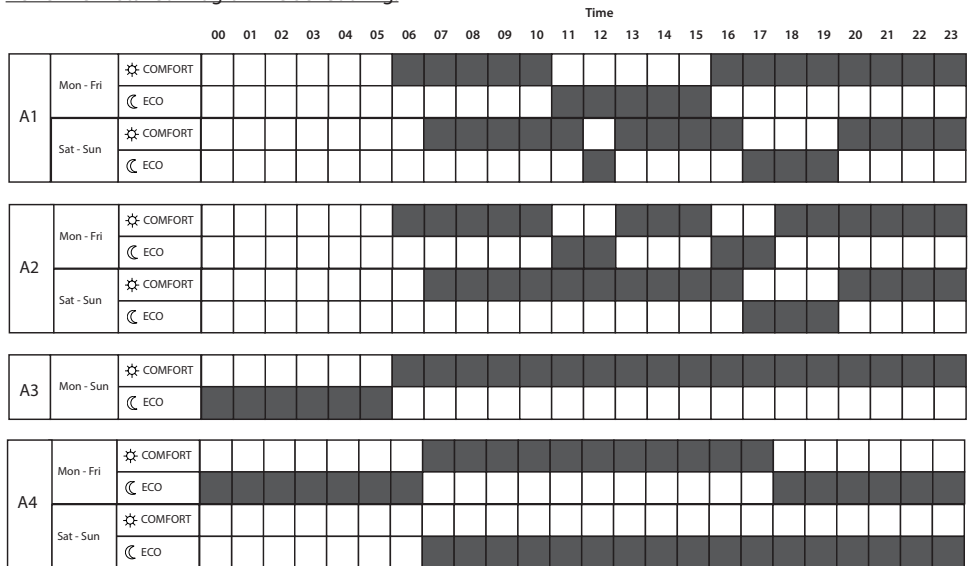
4.6.2 AUTOMATIC mode

When the AUTOMATIC mode is selected, this activates the programming already established in the product. You can choose from one of the 4 pre-installed programmes within the harmoni product:


A ¹	A ²	A ₃	A ₄
Auto 1	Auto 2	Auto 3	Auto 4

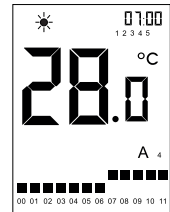
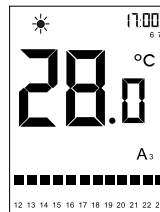
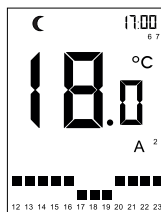
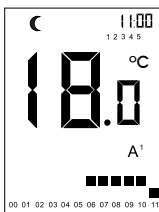
You can also modify these pre-installed programmes to suit your needs. Please see page 9 for a step by step guide on how to activate or modify one of the pre-installed programmes.

AUTO Pre-Installed Programme Scheduling:
















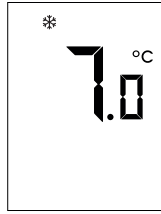
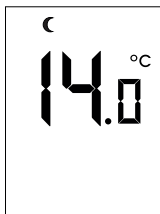
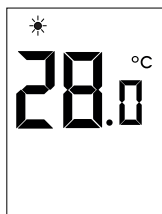
To activate one of the pre-installed programmes:





Press the  button on the keypad until either AUTO 1, AUTO 2, AUTO 3 or AUTO 4 is highlighted. The pre-installed programme will now be active and the corresponding icon will appear on the screen.

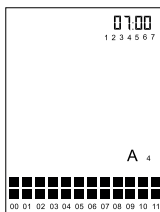


To modify one of the pre-installed programmes:




STEP 1 - You will need to establish the set temperature of the COMFORT/ECO/ANTI-FROST modes first. Please press and hold the  button for 3 seconds. Press the   buttons to either increase or decrease the temperature respectively within the pre-set COMFORT  temperature range (see tables on page 6). Press the  button to confirm and you will then move to the ECO  temperature settings. Use the   buttons to either increase or decrease the temperature respectively within the pre-set ECO temperature range. Press the  button to confirm and you will then move to the ANTI-FROST  temperature settings. Use the   buttons to either increase or decrease the temperature respectively and press the  button to confirm.

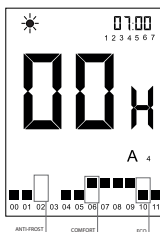




STEP 2 - The days of the week will be modified next. Use the   buttons to select the chosen days and press the  button to select the days you want to modify. After day 7, press the  button to proceed to the next step.



STEP 3 - Then you will move onto setting the mode for each hour, of the day which will begin at 0h (midnight). You will need to go through each hour and select a mode for each hour.

Select the mode by pressing the  button - press once for COMFORT, press twice for ECO and press three times for ANTI-FROST. To move onto the next hour, use the   buttons.




Once all 24 hours of the day have been assigned a mode (after 23h), press the  button to save your settings and return to the main screen. To send the adjustments to the radiator, towel rail or water heater, press the  button with the remote control pointing at the product.


4.7. harmoni system Advanced Functions

The harmoni system includes three advanced functions - see below.

4.7.1. OPEN WINDOWS function








The harmoni system has the OPEN WINDOWS  function set to ON to begin with. This function is activated when the temperature sensor detects a drop of 4°C from the set temperature within a 30 minute time period. The OPEN WINDOWS function will be active for 2 hours. When the OPEN WINDOWS function is activated, the product will move into ANTI-FROST mode at 7°C.

4.7.2. PRESENCE DETECT function


The harmoni system has a PRESENCE DETECT  function installed within the product. This function detects movement (or presence) around the product.

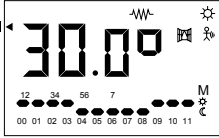
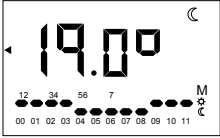

If no presence is detected within 60 minutes then the product will automatically decrease the set temperature by 1°C. If no movement is detected for 120 minutes then the product will automatically decrease the temperature by a further 1°C. If there is no movement within 180 minutes then the product will automatically decrease the temperature by a further 1.5°C.

If a presence is detected by the product at any moment, then the product will automatically increase the temperature back to the previously established user set temperature.

To activate or deactivate either the OPEN WINDOWS or PRESENCE DETECT functions, please press the  button to access the Settings Menu. Then you will need to use the   buttons to move the cursor to either the  icon or the  icon on the screen. Then press the  button once to activate and press the button again to deactivate. Press the  button once to save your settings and return to the main screen.

4.7.3. Energy Consumption Indicator


The harmoni system has a unique energy consumption indicator so you can monitor your energy expenditure. The  icon will appear down the left side of the screen when switched on to indicate the expenditure level.

		
24.5 - 30°C	19 - 24°C	< 19°C

Within this temperature range, you are using a high amount of energy.	Within this temperature range, you are using an average/medium amount of energy.	Within this temperature range, you are using a low amount of energy. ^o
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4.7.4. 2 HOUR BOOST function

The harmoni system has a unique two hour BOOST mode that will override any other set mode and will boost your product to maximum power. You can choose to boost to maximum power for 15 minutes, 30 minutes, 1 hour or 2 hours.

To activate, select this function using the  button, - keep pressing to scroll through MANUAL, PILOT, AUTO and then you will find the 2HR function. Use the   buttons to select either 15 minutes, 30 minutes, 1 hour or 2 hour boost and confirm by pressing the  button.

5. Maintenance & Cleaning

The product does not require any type of maintenance. We recommend that all parts of the product are kept clean (behind, underneath, upper fins, etc.). Do not use any abrasive product on the aluminium. Clean it with a damp cloth and a pH neutral soap, and the control panel with a dry cloth.

European Directive 2012/19/UE

Under the European Directive 2012/19/UE on waste electrical and electronic equipment (WEEE), the product cannot be disposed in the usual council bins and containers. They must be separated to optimize the recovery and recycling of all of the components and materials and reducing the impact to human health and the environment. The symbol of the container crossed out over a horizontal line is marked on all of harmoni products to remind the consumer of the obligation to separate them on disposal.

The consumer should contact the local authority or original point of sale to learn more about the correct disposal of this product.

6. Guarantee

In this section, we hereby describe the guarantee conditions which the buyer acquires on buying a new harmoni product. These conditions comply with all the rights construed in the national legislation in force, as well as any additional rights and guarantees which are offered by harmoni.

6.1. Any incident that you might detect in your harmoni product can be sorted by the product seller or quickly by the manufacturer. Please **contact harmoni by telephoning 01473 559088** for technical support.

SERIAL NUMBER	CE IP 44				
	8437007080872014442400000		230V~	50 Hz	300 W
REFERENCE	TYPE: RK6154311 REF: HS030B MOD: TOWEL RAIL HARMONI ERBO WHITE				

You will need to state the product reference (located on the label indicating product features), serial number, proof of purchase and the type of incident at hand when contacting us so that we can check the guarantee. In addition, please attach a copy of the product invoice.

6.2. harmoni guarantees that there are no material defects of design or manufacture at the time of original acquisition and guarantees the aluminium for a period of 120 months and 24 months for any electronic and electrical components.

6.3. If during the guarantee period, the product does not work correctly under normal use, and any design, material or manufacturing defect is found, harmoni will repair or substitute the product as it may see fit, in accordance with the terms and conditions as follows:

6.3.1. The guarantee is only applicable if the original guarantee is issued by the seller and when the said guarantee is filled in correctly including product reference, series number (marked on the product's label indicating technical features), purchase date and the seller's stamp.

harmoni reserves the right to reject the guarantee service when this information has been removed or modified after the original product purchase.

6.3.2. The guarantee only applies to those cases that concern material, design and manufacturing defects, and under no circumstances covers damage to the product for the following reasons:

6.3.2.1 Incorrect use of the product, i.e. used for other purposes that are not construed as its normal use or for not respecting the instructions of use and maintenance given by harmoni as well as incorrect installation or use of the product that may not comply with the current technical standards of safety.

Corrosion caused by direct exposure to salt water is excluded from the guarantee. When the product is installed no more than 200m from the coast the guarantee for damages caused by corrosion the period will be reduced by 50%.

6.3.2.2 Any unauthorized repairs carried out by unauthorized technicians or opening of the product by unauthorized people.

6.3.2.3 Any accidents that are deemed outside the control of harmoni, such as lightning, fires, floods, public disorders, etc.

6.3.3. Any repairs or substitutions that are included in this guarantee do not allow any additions or new periods of guarantee.

6.3.4. Any repairs or substitutions covered under this guarantee must be parts that are functionally equivalent. The defective parts or parts removed or replaced shall become the property of harmoni.

6.4. The technical service of harmoni will advise you if you need to buy any parts not covered under the guarantee or out of guarantee.

6.5. This guarantee does not affect the buyer's legal rights stipulated in the current national legislation, nor affects those rights against the distributor or installer that could come forth in compliance with the purchase contract.

6.6. In the absence of a national legal legislation applicable, this guarantee shall prevail and may be construed as the buyer's only protection. harmoni, its offices, distributors and installers may not be held responsible for any accidental damage that emerges due to infringement of any rules implicitly related to this product.

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GUARANTEE CERTIFICATE			
Please fill in the product details below:			
PRODUCT REFERENCE NO.		PRODUCT SERIAL NO.	
PRODUCT NAME		PURCHASE DATE*	
Please fill in your details below:			
FIRST NAME		SURNAME	
ADDRESS			
COUNTY			
POSTCODE		TELEPHONE NO.	
EMAIL			
In order to obtain the harmoni guarantee, an authorised installer/electrician must fill in the details below:			
INSTALLER / ELECTRICIAN NAME			
INSTALLATION DATE*		PRODUCT NAME	
STAMP*		SIGNATURE	

PLEASE NOTE:

This Guarantee Certificate must be completed in full in order to obtain guarantee rights. The purchase date, installation date and the stamp are compulsory. Please keep the completed guarantee safe.

* Compulsory fields to be completed.

NOTES:

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harmoni

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