



**LUCHT LHZ**<sup>®</sup>  
Elektroheizung GmbH & Co. KG



## **LHZ USER GUIDE**



## **LHZ User Guide**

LHZ would like to thank you for purchasing your LHZ radiator. You have purchased a high quality, German designed and manufactured heating device, which will give you soft and natural, quality heat. The name LHZ stands for “Lucht Heizung”, which in German means “Lucht Heating” and over the past 20 years LHZ have been renowned across the world for the supreme quality and high efficiency of their Electric Radiators. LHZ has established an extensive sales distribution network for its products in over 25 countries, worldwide.

This booklet is designed to give you the information required for you to get the most out of your LHZ radiator. Please take the time to read and understand all the directions and tips to ensure that you are operating the radiator efficiently and correctly.

Before you get started, you should be aware that your radiator has been sized correctly for the room you would like heated. As with any heating device, leaving windows and doors open will affect the performance of the radiator, as will the level of insulation in your home.

LHZ radiators are manufactured to the highest of standards to ensure both safety and quality. Your radiator has been fully checked and tested prior to leaving the factory. And as such each radiator is packed with its own Quality Check Certificate.

We know you will enjoy your new heating experience, but if you have any questions which cannot be answered by this booklet, then please do not hesitate to contact your retailer or LHZ on 0800 723 426.

# **Table of Contents**

Introduction

Radio Frequency Control

- Initial setup
- Setting the time
- Setting the temperatures
- Choosing a program
- Holiday Function
- Other Functions
- Recommended operating guidelines

Wireless Controller Operating Guidelines

- Lights on the receiver
- Operating temperatures
- Program settings
- Positioning of the controller

Manual Control

- Setting the temperature
- Ensuring the temperature

Troubleshooting

Customer service pullout

## Radio Frequency Operated LHZ Radiators

Instructions for the set up for **TEI 5/TEI 6** radio frequency control systems (7 day control).



**TEI 5 (Radio Frequency Receiver)** – when using one of the Radio Controlled Systems, the TEI 5 receiver comes already pre wired to the radiator. Once the radiator has been installed, the receiver can be situated discreetly behind the radiator, either mounted on the wall or directly on to the appliance.



**TEI 6 (Radio Frequency Weekly Programmable Thermostat)** – The TEI 6 Chrono-Thermostat enables the temperature to be regulated in one zone of the property at various times of the day. There is a 7 day program together with 9 standard or 4 user-defined programs. There is an LCD display for room temperature and time, a graphic display and a holiday mode option.

## Initial Set Up

### Step 1

When ordering an EHC Radio Frequency (R/F) controlled radiator, the radiator will already have the receiver wired in to it (*as illustrated on previous page*).

### Step 2

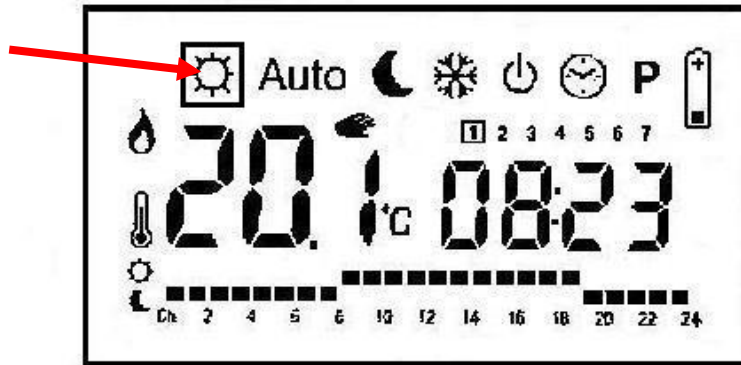


Once connected, the receiver will show a **yellow** LED light indicating that it is manual mode

### Step 3



Push the button on the receiver for 5 seconds until the **green** light appears, indicating that the receiver is ready to be linked to the thermostat.



#### Step 4

Turn **ON** the thermostat TEI6 and put into the “Sun” position using the left and right arrows, indicated in the LCD tool bar at the top of the display.

#### Step 5

Push the “OK” button for 5 seconds until “nrf in it” is displayed and a quick moving LCD light flashes across the bottom of the display. This indicates that the thermostat is attempting to link itself to the receiver. Push the “OK” button again.

#### Step 6



The green light will go off on the receiver, indicating that the pair is now linked.



This can be tested this by pressing the plus (+) button the controls the temperature setting on the LCD display, to raise the temperature above the current room temperature. The LCD light will then flash across the button of the display.



When it stops a red LED light will light up on the receiver, indicating that now the radiator is ready to heat up.

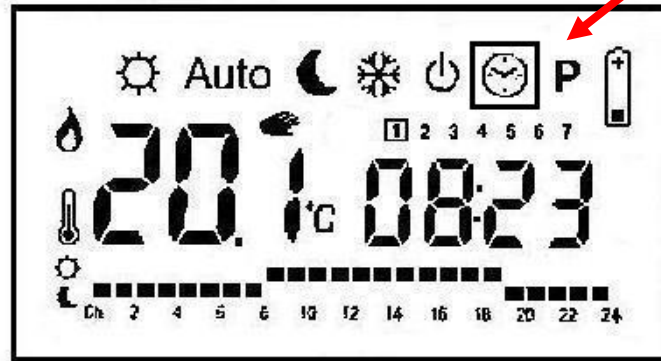
### **Step 8**

Once the room receives the required temperatures set on the thermostat, the red LED light will go **OFF** on the receiver. To test this, simply push the minus (-) button on the to drop the temperature setting on the display below the current room temperature and the red-light will go off indicating that the radiator has stopped to heat up.



## Setting the Time

### Step 1



Move the controller into the “**Clock/Time**” setting, second from the right, using the left and right arrows.

### Step 2

Press “**OK**” once and the minutes will start flashing, adjust the minutes using the + and - buttons.

### Step 3

Press “**OK**” again and the hour will start flashing, again adjust the hour using the + and - buttons. Beware that it is a 24 hour clock.

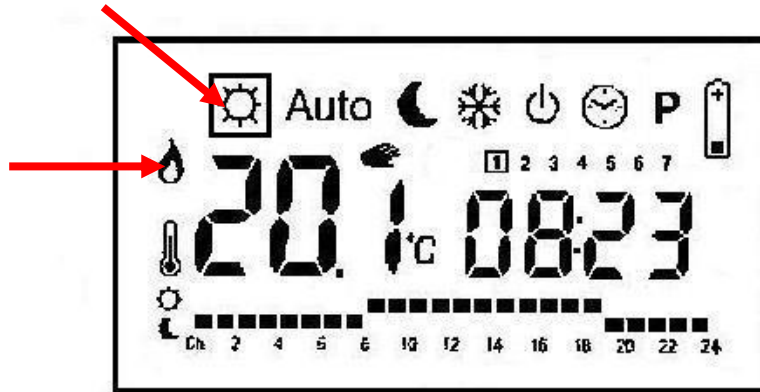
### Step 4

Press “**OK**” again and set the correct day of the week using the + and - or the arrow keys. The days are numbered 1 (Monday) through to 7 (Sunday). This important because it is a seven day timer, so the controller knows when it is the weekend.



## Setting the Temperatures

### Step 1

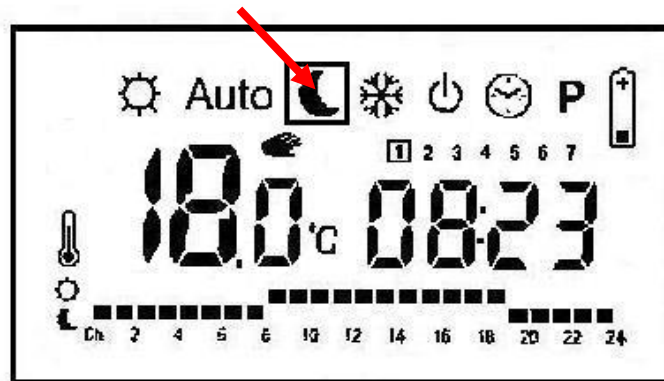


Put the controller into the “Sun” setting, use the plus and minus keys to choose the desired temperature. If the desired temperature is greater than the current room temperature, a flame will appear on the left hand side.

### Step 2

Press OK to alternate between room temperature and the desired temperature.

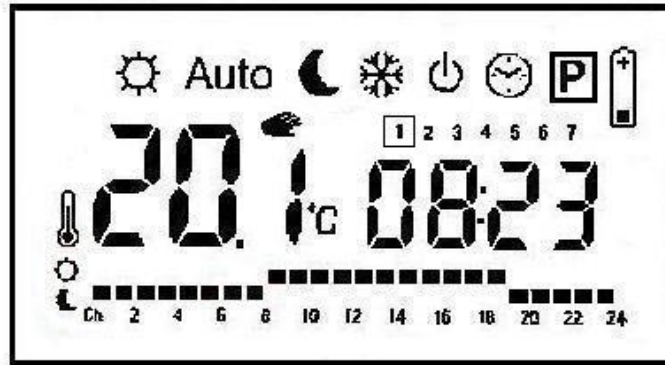
### Step 3



Move the controller into the “Moon” setting and reduce the temperature. The controller will not let the room temperature drop below this temperature when the radiator is off.

## Choosing a Programm

### Step 1

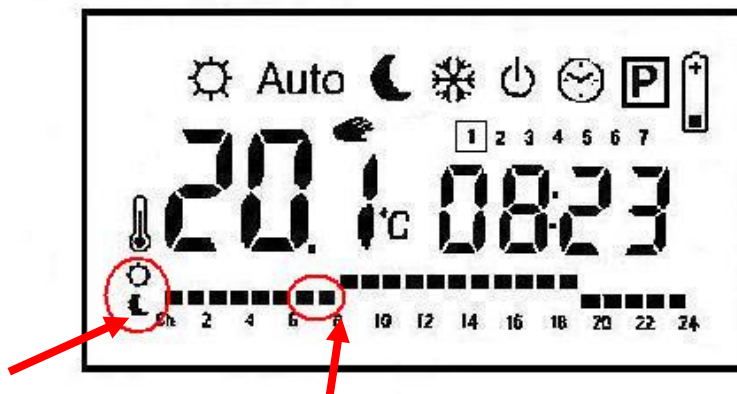


Put the controller into the “P” setting at the far right.

### Step 2 – to set your own individual programm

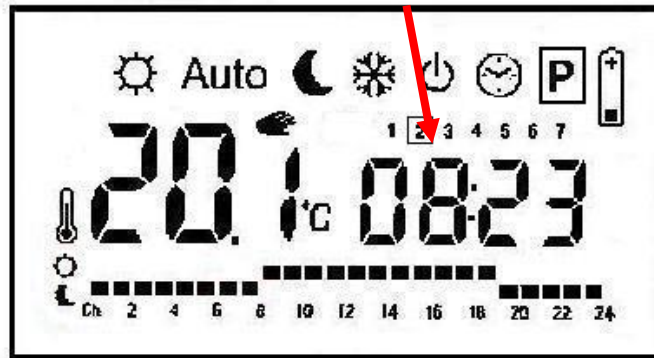
Press + or – until U1 flashes and press “OK”.

### Step 3



Each of the blocks along the bottom of the screen represent one hour. Move through the hours using the arrow keys and move them between the “Sun” and “Moon” setting by using the + and – keys.

**Step 4**



Once the day is shown as you would like it, Press “OK” and the day square will move to the next day.

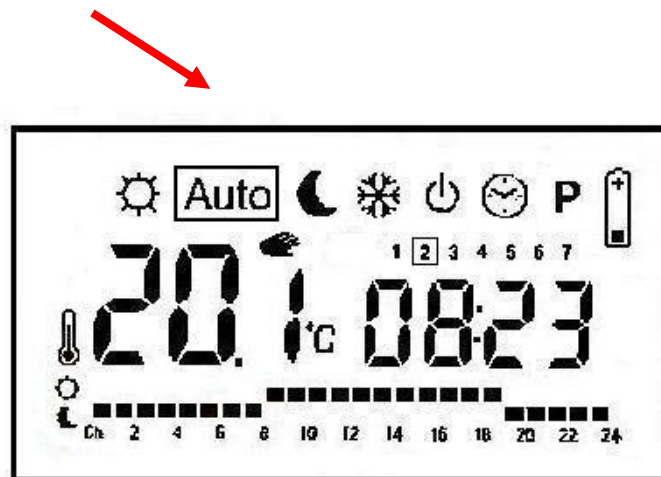
**Step 5**

If the next is the same then press “OK” and the day square will move to the next.

*Note – If you make changes to one day you will need to change the other days also.*

**Step 6**

Return the controller to the “Auto” setting



## Holiday Function

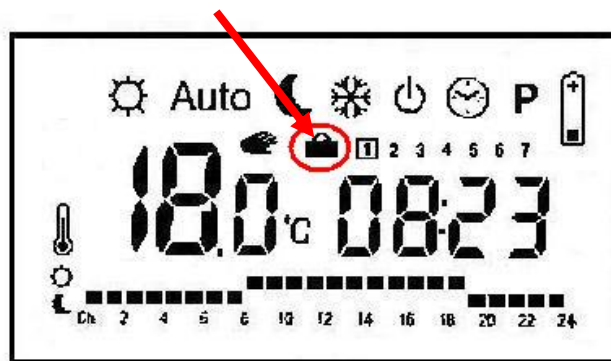
### Step 1

Put the controller into the “P” function and the right arrow.

### Step 2

Press the + or – to program the time you are going to go on holiday for.

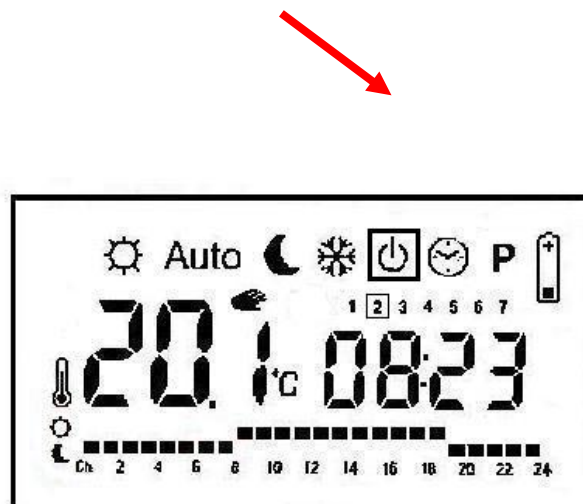
### Step 3



Press “OK” to confirm. The “Suitcase” sign indicates holiday mode.

### Other Functions

You can turn the controller off by moving the square to the Icon which is third from the right.



You can also Lock and Unlock the keys by pressing the “OK” then the + and – keys simultaneously

# **Wirelessly Controlled Radiator Operating Guidelines**

## **The lights on the radiator receiver signal the following:**

No yellow & no red – the radiator is in auto mode, controlled by radio frequency, and drawing no current.

No yellow & only red – the radiator is in auto mode, controlled by radio frequency, and drawing current.

Only yellow & no red – the radiator is in manual mode but drawing no current.

Both yellow and red – the radiator is in manual mode and drawing current.

## **Suggested Operation**

### **Suggested operating temperatures**

Please be aware that setting the temperature higher will not make the radiator heat up faster. As with any form of heating, every degree higher you set the room temperature, the more money it is going to cost to run. However, LHZ radiators give off a nice soft ambient heat, therefore your comfort levels will be achieved at lower temperature settings relative to other forms of heating.

We suggest that you set the temperature to a similar temperature you would experience on an autumn or spring day where it is not necessary to run any form of heating.

Therefore depending on what the room is used for, and the comfort levels required, we recommend that you set the temperature or the “sun setting” between 16 degrees and 20 degrees, (i.e. at the times when you require the heating on)

We recommend that you set the “moon setting” between “5” degrees and “10” degrees when you do not require the heating.

### **Suggested program settings**

You can see how to set up a user program in the choosing a program section. Unless one of the pre-programmed programs matches your needs, it is recommended that you set up a user programs that best suits your weekly routine or lifestyle needs.

It’s recommended that you have the radiators come on 30 minutes to an hour before they are needed, so that the room is up to temperature when required.

It’s also recommended that you have the radiators turn off 30 minutes to an hour before they are no longer needed, because the radiators will continue to give off heat when turned off.

### **Suggested positioning of the controller**

For radiators using the wireless controller, please be aware that the temperature is measured at the controller. Therefore the controller should be positioned where it can measure the temperature of the room (in the same room as a radiator), and between 1m and 1.5m from the floor.

## LHZ TEI 1 – manual Thermostat

Each radiator can be controlled individually by simply operating the **TEI 1** thermostatic control knob located on the side panel of the radiator. This can be set to meet the temperature requirements of the room by simply turning the **TEI 1** knob until you reach your desired room temperature.



***TEI 1 (Manual Thermostat)** – this thermostat is located on the side of the radiator and can be manually adjusted to regulate the temperature within the room.*

When the overall system reaches the set temperature on the room thermostat, the power supply is disabled to all radiators, however the radiator will continue to radiate the heat that has been stored within the radiator. When the room temperature falls below the set temperature on the room thermostat, the power will automatically be enabled, this will allow the radiators to maintain the required temperature in each room.

Alternatively you can request a higher temperature on the room thermostat which will also enable the more power to the radiators.



Each radiator has a **Thermostat Sensor** installed on the underside of the radiator. This is designed to determine the room temperature.

***Note** - the Thermostat Sensor should protrude between 3cm – 5cm from the locating screw.*

The **luminous indicator** (Red LED) above the control knob will indicate the status of the heating:



<b>LED lit:</b>	heating on or the set temperature has not been reached
<b>LED not lit:</b>	heating off or the set temperature has been achieved

The **TEI 1** is operated by turning the control knob:

Turning it clockwise allows you to increase the temperature.

Turning it anti-clockwise allows you to reduce the temperature. The temperature can be regulated from approx. 10°C to 30°C, including a frost protection setting of approx. 5°C.

With reference to the luminous indication (red LED) the settings correspond as follows:

Setting *:	approx. 5°C (frost protection)
Setting between * & 1:	approx. 10°C
Setting 4:	approx. 20°C
Setting 6:	approx. 30°C

**Note** – forced turning beyond the end settings of the control knob will cause damage to the thermostat components and as such will invalidate the warranty.



## **Troubleshooting**

### **The room is getting too hot.**

Manual radiator:

Reduce the temperature by turning the dial to a lower number.

Wireless Control:

Reduce the temperature by putting the controller into the sun setting and pressing the minus button.

Make sure the controller is linked to the receiver, if the green light on the radiator is blinking, then you need to perform the initial setup.

Make sure the radiator is not in manual mode, if the yellow light on the radiator is showing, press the button on the radiator receiver until the yellow light is no longer showing.

Make sure that the controller is in a position where it can measure the temperature of the room (in the same room as a radiator), and between 1m and 1.5m from the floor.

### **The radiator is coming on when it shouldn't.**

Manual radiator:

Turn the radiator off at the wall plug.

Wireless control:

Move the controller to the moon setting and reduce the temperature of the moon setting down to 5 degrees, by pressing the minus button.

### **The radiator is not heating the room sufficiently.**

Manual radiator:

Turn the dial up slightly until the red light shines. However, make sure the radiator still cycles on the thermostat (light goes out regularly).

Wireless control:

Put the controller in the sun setting and increase the temperature by one or two degrees.

Make sure the controller is linked to the receiver, if the green light on the radiator is blinking, then you need to perform the initial setup.

Make sure the radiator is not in manual mode, if the yellow light on the radiator is showing, press the button on the radiator receiver until the yellow light is no longer showing.

Make sure that the controller is in a position where it can measure the temperature of the room (in the same room as a radiator), and between 1m and 1.5m from the floor.

## **The radiator is not coming on**

### **Manual radiator:**

Make sure the plug is turned on at the wall.

Turn the temperature up by turning the dial to a higher number or until the red light comes on.

### **Wireless control:**

Make sure the plug is turned on at the wall.

Put the controller in the sun setting and increase the temperature by one or two degrees.

Make sure the controller is linked to the receiver, if the green light on the radiator is blinking, then you need to perform the initial setup.

Make sure the radiator is not in manual mode, if the yellow light on the radiator is showing, press the button on the radiator receiver until the yellow light is no longer showing.

Make sure that the controller is in a position where it can measure the temperature of the room (in the same room as a radiator), and between 1m and 1.5m from the floor.

## **Controller is locked**

Press and hold the ok button, and simultaneously press the minus button to unlock and lock the controller.

## **Programs are different for different days**

If you make a change to the programming, and you would like to have this change for everyday in the week, then you will need to make the change for each day.

Please see the choosing a program section.

# Customer Service Questionnaire

**Do you understand the following**

**Please circle**

- What the lights on the radiator mean                      Yes                      No
- What the moon temperature setting is for                      Yes                      No
- How to change the temperature setting                      Yes                      No
- How to program the controller                      Yes                      No
- How to set the time and day                      Yes                      No
- How to change the programming                      Yes                      No
- How the radiator needs to cycle on the  
Thermostat                      Yes                      No
- The importance of the positioning of the  
Controller                      Yes                      No
- How I can tell when the radiator is using  
electricity                      Yes                      No

**Has the following been completed to you satisfaction**

**Please circle**

- Have I cleaned up properly after installing  
the radiator                      Yes                      No
- Has the radiator been positioned as to my  
liking                      Yes                      No
- Has the controller been positioned to my  
liking                      Yes                      No
- Is the radiator level                      Yes                      No

Please send this form back to your retailer. If you have circled "NO" in any area above a Customer Service representative will contact you directly.

**To be signed by the purchaser**

Signed: ..... Date: .....

Name: .....

Address: .....

For office use only:

Installed by: ..... Account Number: .....

Processed by: ..... Date: .....



**LUCHT LHZ**<sup>®</sup>  
Elektroheizung GmbH & Co. KG