® RADEMACHER

EN **SmartHome Box**
Translation of the commissioning instruction manual

Item no.: 3420 08 19
Type: 9496-3

RADEMACHER

describes the commissioning of the RADEMACHER SmartHome Box.

How to use this manual:

- ◆ Please read this manual through completely and follow all the safety instructions before using the SmartHome Box for the first time.
- ◆ Please also read the instruction manuals for the accessories, if available.
- ◆ This manual is a component of the product. Please store it in an easily accessible place.
- ◆ When passing the SmartHome Box on to a third party, this manual must be passed on as well.
- ◆ Damage resulting from non-compliance with these instructions and safety instructions will void the guarantee. We assume no liability for any consequential damage.

---

i   You can get further information for the configuration in the service section of our website:

www.service.rademacher.de

1. Hazard symbols

The following hazard symbols are used in this manual:

Danger to life resulting from electric shock

Danger area / dangerous situation

1.1 Symbols and depictions used

Depiction	Description
1.	**Procedures**
2.	
◆	Itemisation
1) or a)	Lists
i	Further useful information

The use of defective devices can lead to personal injury and damage to property (electric shock / short circuit).

◆ Never use defective or damaged devices.

◆ Check all the components included in the delivery for damage.

◆ Consult our service department in the event that you discover damage.

Risk of short circuit when using an incorrect power supply.

◆ Using a power supply with a voltage other than that specified for the power supply included in the delivery may cause damage to the SmartHome Box or lead to a short circuit.

◆ Only use original accessories from RADEMACHER.

> ℹ The mains socket and power supply must be easily accessible at all times.

Risk of fatal injury from crushing resulting from drives starting automatically.

◆ Keep unauthorised persons out of the travel range of system parts driven by a motor during the configuration and commissioning process.

Mains voltage spikes can cause the device to be damaged.

◆ Never install the SmartHome Box during a thunderstorm.

Improper use can lead to personal injury or property damage.

◆ Never use the available radio system (e.g. DuoFern radio system) and its components for the remote control of devices and systems with increased safety-related requirements or where there is an increased risk of accidents. Applications of this kind require additional safety equipment.

◆ Children must not be permitted to play with the roller shutter control. Watch the moving roller shutters whilst carrying out the settings and keep other people away from the area to avoid injury in the event the shutters suddenly slip.

◆ Secure roller shutter and awning systems against automatic start-up* if you are carrying out cleaning and maintenance work on systems of this kind.

(For example, by switching off the fuse installed on site)

i 2.1 Intended use

Only use the SmartHome Box for configuring and controlling RADEMACHER devices.

Operating conditions

◆ Only operate the SmartHome Box in dry rooms.

◆ A 230 V/50 Hz mains socket is required for the connection on site.

◆ The mains socket must be easily accessible.

◆ The SmartHome Box can be used as a wall-mounted or tabletop device.

> **i** Radio systems that transmit on the same frequency can cause interference.

i 2.2 Improper use

Never install and use the SmartHome Box outside or in damp rooms. This may damage the device.

RADEMACHER SmartHome Box

Central controller unit for RADEMACHER radio products. Configuration and control is carried out via a smartphone, tablet or PC.

LAN (Local Area Network)

Abbreviation for a wired, local computer network.

WLAN (Wireless-LAN)

Abbreviation for a local radio network.

WR Connect

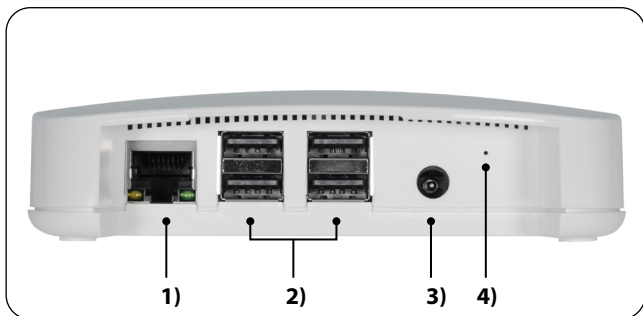RADEMACHER internet service for remote access to the SmartHome Box from any web-enabled end unit.

Included in delivery:

a) SmartHome Box
b) Plug-in power supply (5 V/ 3 A)
c) LAN cable
d) Instruction manual

After unpacking the product, please compare the contents of the package with this information.

Type plate, see the bottom side of the device.

1) 🔲 (LAN) Connection to the local network

2) ⟷ 4 x USB ports (USB 2.0) *

3) ⎓ DC 5 V / 3 A Power supply connection

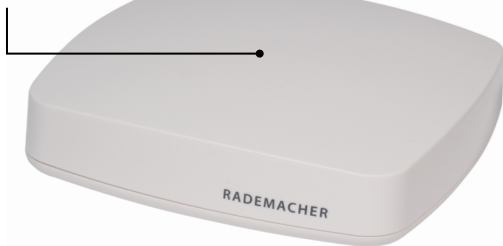**4)** Reset Reset button **

ℹ

> * The USB connections are inactive and cannot be used for third-party products.

> ** You can erase all of your settings and return the original factory settings during a reset.
>
> Disconnect the power supply. Press and hold the reset button and switch on the power supply again.
>
> Wait until the red LED lights up continuously after flashing and the green LED is off. The reset is now executed and you can release the button again.

LEDs (red/green, concealed)

Description	LED	Status
Switch on	red + green	light up
Boot process	red	flashes
	green	lights up
Ready to use	green	lights up
Software update available	green	flashes
Software update	red + green	flash
Reset is executed	red	lights up
	green	off for 2 sec

The SmartHome Box can be used to log on, set up and configure all of the devices in a DuoFern network using the RADEMACHER App or the user interface via the web browser on a computer. The system can be used at any time to adapt the devices to individual requirements.

Network port (LAN)

The SmartHome Box must be connected to a free LAN port on a router to be able to use it.

Accessing the user interface in a local network

Once it has been successfully connected, the user interface of the SmartHome Box can be accessed via the RADEMACHER App on your mobile end units or via the web browser on your computer.

The RADEMACHER App for Android or iOS products is available from the appropriate app store.

Accessing the user interface using RADEMACHER's "WR Connect" service.

The user interface of the SmartHome Box can also be accessed worldwide from any web-enabled end unit. It is necessary to register free of charge and log on to the RADEMACHER server.

> **i** Some settings (e.g. the configuration of an IP camera) are only possible in the local network.

Information about the internet connection

RADEMACHER recommends that you permanently connect the SmartHome Box to the internet so that we can provide you with updates for new products and new functions. In addition, make sure with the internet connection that we can provide you with the optimum service and security-related updates.

> **i** A permanent internet connection is required to use language support via "Alexa Skill" or "Google Assistant".

SmartHome Box:

Supply voltage:	5 V / 3 A (DC)
Max. consumption:	approx. 15 W
Average consumption:	< 2.5 W *(DuoFern and LAN or WLAN active)*
LAN:	1 x ethernet (100 Mbps)
WLAN:	802.11 b/g/n
WLAN transmission frequency:	2.400 GHz – 2.483 GHz
WLAN transmission power:	max. 100 mW
DuoFern transmission frequency:	434.5 MHz
DuoFern transmission power:	max. 10 mW
DuoFern radio range: – In buildings: - Outdoors:	 approx. 30 m * approx. 100 m ** depending on the building structure*
Maximum number of logged-on devices:	100
Permissible ambient temperature:	+ 0 °C to + 40 °C
Dimensions (L x W x H):	130 x 130 x 30.5 mm
Supported languages:	German / English / Dutch / French

Plug-in power supply:

Operating voltage:	100 V - 240 V / 50 - 60 Hz
Output voltage:	5 V / 3 A (DC)

WLAN security

The SmartHome Box supports the following WLAN scurity algorithms:	WPA1 / WPA2-PSK

> **i** The SmartHome Box will not connect to unsecured networks (without a password).

You require the following to initially set up the SmartHome Box:

◆ Internet access
◆ A router with a DHCP server and a free LAN port
◆ A freely accessible mains socket (230 V / 50 Hz)
◆ A mobile end unit (smartphone / Tablet) with the latest Android or iOS operating system and / or a conventional standard computer with the latest web browser

Installation site

An installation site close to metallic surfaces or objects can impair its function. Therefore you should avoid an installation site in the cellar, for instance.

Do not install the device above a height of 2 m.

Existing electronic devices may cause interference under certain circumstances. You should therefore observe a certain distance (> 0,5 m) especially for the following devices:

◆ WLAN router
◆ Television
◆ Computer
◆ Wireless loud speaker and radio headsets
◆ Audio and video equipment
◆ Alarm systems
◆ Mobile phones and cordless phones
◆ Microwaves
◆ Ballasts for fluorescent lamps
◆ Baby monitor

The Federal Office for Information Security has published recommendations for the secure use of the internet. We would like to provide you with excerpts of these. Further information can be found at:

www.bsi-fuer-buerger.de

Security aspects for routers and WLAN

You should always use a router for connecting to the internet. In contrast to modems (e.g. for DSL or cable), routers incorporate firewall and encryption functions that you have to activate or adjust.

Change preset passwords

Make sure that you change the preset password for access to the configuration interface of the router.

7.1 Connecting the router

System requirements for the router

◆ The router must have a DHCP server.
◆ The DHCP server of the router must be activated.

Assigning IP addresses on the router

All the network devices (e.g. SmartHome Box) connected to the router in a network are assigned an IP address by the DHCP server of the router. A specific IP address range is reserved for this on the DHCP server.

If you want to assign a fixed address for the SmartHome Box, you must change the configuration of the DHCP server on the router accordingly. Please read the information provided in the instruction manual for your router.

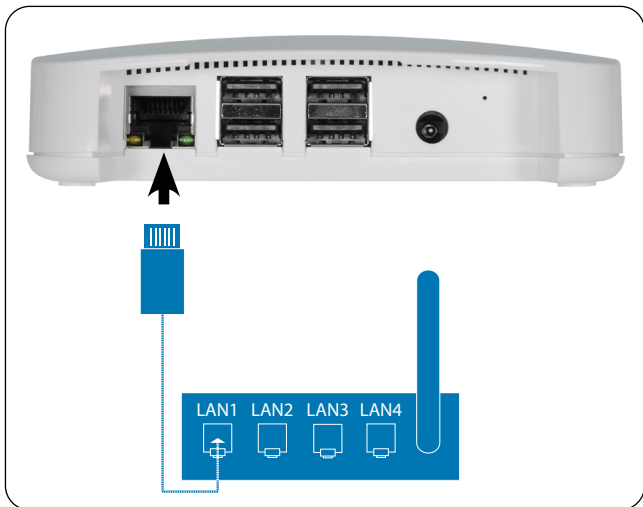Alternatively, a fixed IP address can be assigned in the user interface of the SmartHome Box.

Logging on to and using a WLAN radio network.
The SmartHome Box must initially be configured (e.g. log on to a WLAN radio network) via the LAN network and the user interface of the SmartHome Box.
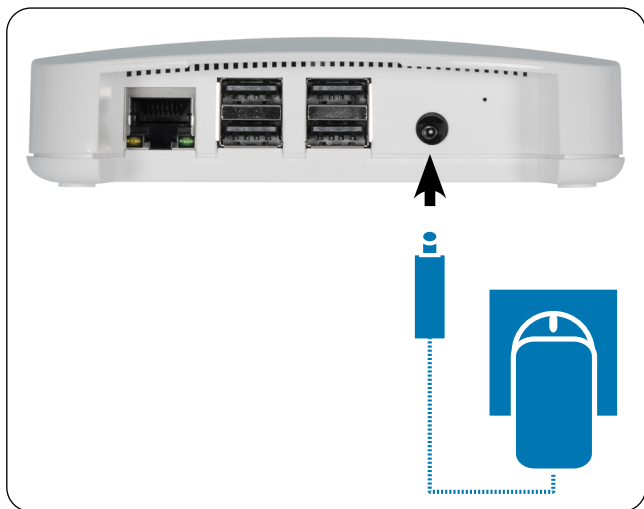
The WLAN settings of the SmartHome Box are only activated when the LAN connector is removed.

Plug the LAN cable provided into the LAN port of the SmartHome Box and connect it to a free LAN port on your router.

After connecting the plug-in power supply (see chapter. 8.2), the green LED on the LAN port will light up green if it is connected properly. The yellow LED flashes when data is being transferred.

Connect the power supply provided to the power input **[DC 5 V/3 A]** of the SmartHome Box and then plug the power supply into a free 230 V / 50 Hz mains socket.

After switching on the power supply, the LED starts to flash green and the red LED flashes during the boot process.

Readiness for operation

The SmartHome Box is ready to use once the LED lights up green continuously and the red LED is off.

i | 8. Accessing the user interface

You can configure the SmartHome Box using a smartphone, tablet or PC. We recommend the RADEMACHER App for the initial commissioning.

You can download the RADEMACHER App from the appropriate store for Android or iOS products.

Android version

ANDROID APP ON
Google play

iOS version

Available on the
App Store

Detecting existing devices in your home network

The RADEMACHER App automatically searches for and detects new devices.

> i | Your smartphone must be on the same network as the SmartHome Box.

i | 8.1 Navigation and operation

The navigation and operation on the user interface is explained in the FAQs, tutorials (videos) etc. in the service area on our website.

www.service.rademacher.de

Depending on the type of router used, it may be that the SmartHome Box is not automatically detected in the app or the host name doesn't work when you enter it in the browser.

In this case, it may be necessary to enter the IP address of the SmartHome Box.

Example of an IP address: http://192.168.???.???

Where can I find the IP address?

The IP address is automatically allocated by your router and can be found in the network settings of the router. There the IP address is specified in connection with the MAC address of the SmartHome Box (see the underside of the device).

The SmartHome Box is continually updated through firmware updates. You can tell whether an update is available by the flashing green LED or by a red update icon in the RADEMACHER App or user interface in the browser.

> **i** The power supply must not be disconnected during the software update.

1. Open the app or the user interface in the browser.

2. Select the "Maintenance" menu option.

3. Start the update (if available). The red and green LEDs flash during the update. This process may take several minutes.

4. The SmartHome Box is restarted after about 5 minutes. The red LED flashes during this phase.

5. The SmartHome Box is ready to use again once the LED lights up green continuously.

> **i** The entire update process takes approx. 5 minutes plus the time for the download of the update.

the device is no longer working?

Disconnect the SmartHome Box from the power supply for approx. 30 seconds and restart the device.

Consult our service department if the problem has not been resolved.

i **10. Simplified EU declaration of conformity**

CE RADEMACHER Geräte-Elektronik GmbH hereby declares that the SmartHome Box complies with the Directive **2014/53/EU (Radio Equipment Directive)**.

The full text of the EU declaration of conformity is available at the following website:

www.rademacher.de/ce

Warranty terms and conditions

Information on our warranty conditions is enclosed separately with this product.