

**EN** **HomePilot®**  
Commissioning instruction manual

Item no. 3414 08 19

Type: 9496-2



Congratulations on purchasing the HomePilot® . You have opted for a quality product manufactured by RADEMACHER. Thank you for the trust you have placed in us.

RADEMACHER products have been developed with the greatest possible convenience in mind. Having applied uncompromising quality standards and thorough testing, we are proud to be able to present this innovative product to you.

It's brought to you by all the highly qualified personnel here at RADEMACHER.



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...describes the commissioning of the HomePilot®.

## 1.1 How to use this manual

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- ◆ Please read this manual through completely and follow all the safety instructions before using the HomePilot® 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 HomePilot® 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.

## 1.2 Further related manuals

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- ◆ You can get the detailed manual for the configuration from the downloads section of our website:  
[www.homepilot.de/downloads](http://www.homepilot.de/downloads)
- ◆ Enter the URL into the address bar of your browser.

The following hazard symbols are used in this manual:



**Danger of fatal electric shock**



**Danger area / dangerous situation**

### 2.1 Symbols and depictions used

Depiction	Description
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1.	<b>Procedures</b>
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2.	
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◆	Itemisation
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1) or a)	Lists
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Further useful  
information

### **HomePilot®**

- ◆ Central controller unit for RADEMACHER radio products
- ◆ Control is carried out via a tablet, PC, smartphone or television.

### **User interface**

- ◆ Software for configuration of the HomePilot®

### **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 to control the HomePilot® from any web-enabled end unit

### **Z-Wave technology**

- ◆ Wireless communication standard from Sigma Designs, Inc.

a)



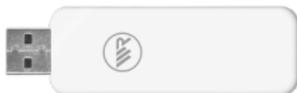
b)



c)

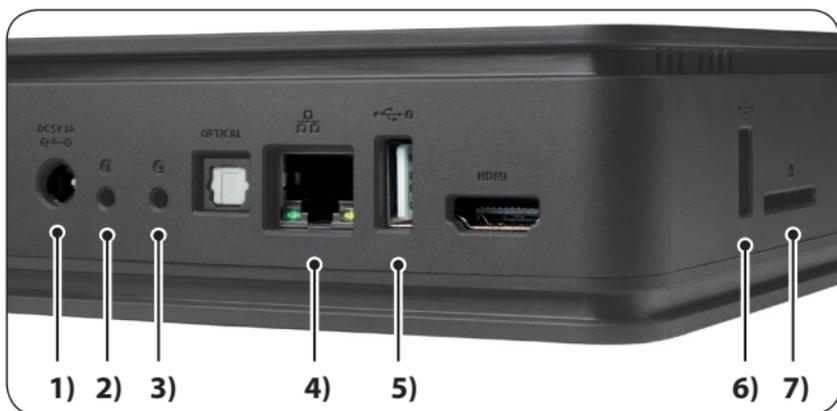


d)

**Included in delivery**

- a) HomePilot®
- b) Plug-in power supply
- c) LAN cable
- d) DuoFern USB stick
- e) Instruction manual

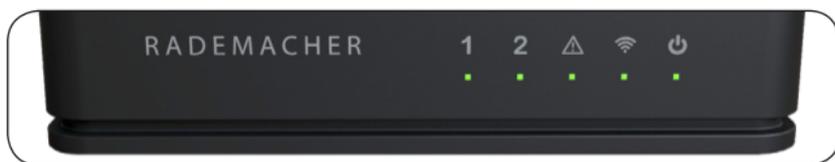
After unpacking the product, please compare the contents of the package with this information.



- 1)  DC 5 V / 3 A Power supply connection
- 2)  Button 1 (reboot)
- 3)  Button 2 (service button) \*
- 4)  (LAN) Connection to the local network
- 5)   USB port 2 (USB 2.0)
- 6)   USB port 1 (USB 2.0)
- 7)  Memory card slot for 32 x 24 mm SD cards (SD-HC compatible)
- 8)   USB port 3 \*\* (not shown)
- 9)   USB port 4 \*\* (not shown)

\* Alternative boot process in the case of a service call.

\*\* The USB ports 3 + 4 for RADEMACHER radio sticks can be accessed via a flap on the underside of the device, see page 20.



Symbol	Name	Status	Description
1	DuoFern	green	The DuoFern radio system is active, the DuoFern stick has been detected.
		flashing green	An update is in process, see page 28.
2	Z-Wave	green	The Z-Wave radio system is active, the Z-Wave stick has been detected
		flashing green	An update is in process, see page 28.
	Error	red	An error has occurred. *
	WLAN	green	Connection has been established.
	Power	flashing orange	Power-up phase - the HomePilot® is starting up.
		green	The HomePilot® is ready for use.

\* Disconnect the HomePilot® from the mains power for approx. 30 seconds and then reboot it. Consult our service department if the problem has not been resolved, see page 32.

The HomePilot® and DuoFern USB Stick provided can be used to set up and configure all of the devices in a DuoFern network via the user interface on a computer. The system can be used at any time to adapt the devices to individual requirements.

Other RADEMACHER products based on Z-Wave technology can be integrated with the additionally available expansion USB stick 8430-1 (item no. 3200 20 39).

### **Network port (LAN)**

The HomePilot® must be connected to a free LAN port on a router to use it as a central controller.

### **Accessing the user interface in a local network**

Once it has been successfully connected, the user interface of the HomePilot® can be accessed and configured via the web browser on your computer.

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

The user interface of the HomePilot® 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.



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 HomePilot® 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.

### **HomePilot® app (for iOS and Android)**

Control the RADEMACHER radio products very easily via a smartphone or tablet with the HomePilot® app. The HomePilot® app for Android or iOS products is available from the appropriate app store.

**HomePilot®:**

Supply voltage:	5 V / 3 A (DC)
Nominal power:	max. 15 W with USB-powered devices
Min. consumption:	approx. 4.2 W
LAN:	1 x gigabit Ethernet
WLAN:	802.11 b/g/n
WLAN transmission frequency:	2,400 GHz – 2,483 GHz
WLAN transmission power:	max. 100 mW
USB ① + ②:	USB 2.0 max. 900 mA in total
USB ③ + ④:	USB 2.0 max. 150 mA per port
Dimensions (L x W x H):	152 x 152 x 45 mm

**Plug-in power supply:**

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

**WLAN security**

The HomePilot® supports the following WLAN security algorithms:

WPA1 / WPA2-PSK



The HomePilot® will not connect to unsecured networks (without a password).

### DuoFern USB stick

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Transmission frequency: 434.5 MHz

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Transmission power: max. 10 mW

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Range:

- In buildings: approx. 30 m (depending on the building structure)
  - Outdoors: approx. 100 m
- 

Maximum number of logged-on devices: 100

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Permissible ambient temperature: + 5°C to + 40°C

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Dimensions (L x W x H): 67 x 18 x 9 mm

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**You require the following to install the HomePilot®:**

- ◆ Internet access
- ◆ A router\* with a DHCP server and a free LAN port
- ◆ A freely accessible mains socket (230 V / 50 Hz)
- ◆ A commercially available standard computer with a current web browser

*\* or a DSL modem with router functionality*

**◆ Operation with a USB or wireless keypad and mouse**

Another alternative is to use a USB or wireless keypad and a USB or wireless mouse. These must comply with the HID (human interface device) standard.

- Wireless keypads and mice with Bluetooth technology are not supported by the HomePilot®.

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](http://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.

#### **Deactivate the WLAN function if you do not use it.**

Most routers today have the ability to connect your devices (e.g. notebooks) wirelessly to the internet (WLAN). Deactivate the WLAN functionality if you do not need it.

### Select secure encryption for your WLAN radio network

The connection must be securely encrypted if you want to use WLAN. The current encryption standard is WPA2.

Change the preset WLAN password of your router after the commissioning. You rarely have to enter this (each time you first connect a new device to the router) so you can select a random, complex and long password without compromising on convenience.

Make a note of this password and store it in a safe place and not in the immediate vicinity of your devices or router.

You should always differentiate between the WLAN password and the password for the configuration interface of the router. We also recommend that you change the name of your WLAN – also referred to as SSID. The name should not allow conclusions to be drawn about the operator of the WLAN or the manufacturer of the router.

*Source: Federal Office for Information Security*

**The use of defective devices can lead to personal injury and damage to property (electric shocks / short circuiting).**

- ◆ 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 HomePilot® or lead to a short circuit.
- ◆ Only use original accessories from RADEMACHER.



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.
- ◆ 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)



## 7. Safety instructions

EN



### **Mains voltage spikes can cause the device to be damaged.**

- ◆ Never install the HomePilot® during a thunderstorm.



## 7.1 Intended use

Only use the HomePilot® for configuring and controlling RADEMACHER devices.

### **Operating conditions**

- ◆ Only use the HomePilot® 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 installation and operation of the radio systems is only permitted for systems and devices where a malfunction in the transmitter or receiver would not cause a danger to persons or property or where this risk is already covered by other safety equipment.



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



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**Improper use can lead to personal injury or property damage.**

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- ◆ 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. Observe the respective statutory regulations for the installation of systems of this kind.



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**Never install and use the HomePilot® outside or in damp rooms. Doing so will cause damage to it.**

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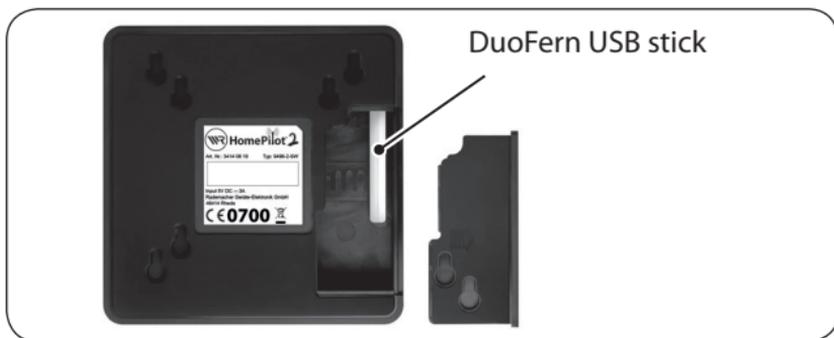
### 8.1 Connecting the DuoFern USB stick

1. Open the cover of the USB compartment on the underside of the HomePilot®.



The USB compartment contains the two USB ports 3 and 4.

2. Insert the DuoFern USB stick into a free USB port.



3. Then close the USB compartment again and place the HomePilot® on a firm surface.



The rubber mat usually leaves no contact marks on the storage surface. However, this cannot be guaranteed for all surfaces and lacquers in view of the wide variety of lacquers and finishes used on furniture.

### 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. HomePilot®) 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.



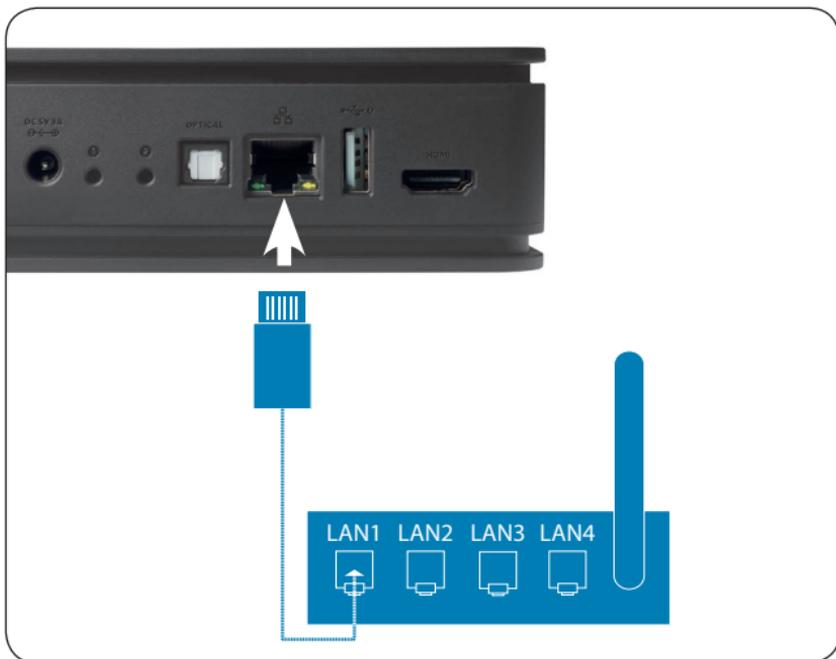
If you want to assign a fixed address for the HomePilot®, you must change the configuration of the DHCP server on the router accordingly. Please read the information provided in the instruction manual for your router.



### Logging on to and using a WLAN radio network.

The HomePilot® must initially be configured (e.g. log on to a WLAN radio network) via the LAN network and the user interface of the HomePilot®.

1. Plug the LAN cable provided into the LAN port of the HomePilot® and connect it to a free LAN port on your router.

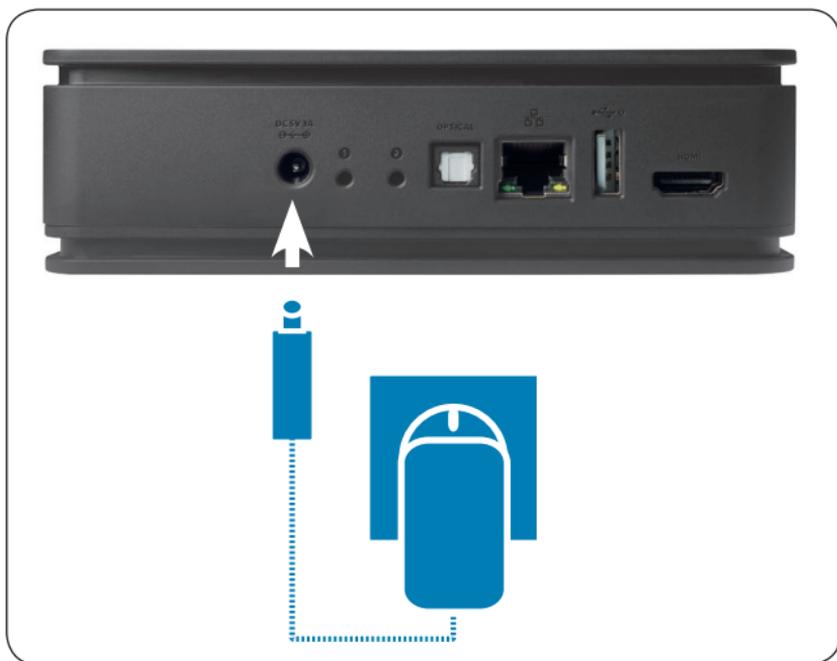


After connecting the plug-in power supply (see chapter 8.3), the green LED on the LAN port will light up green if it is connected properly. The yellow LED flashes when data is being transferred.



The WLAN settings on the user interface of the HomePilot® are only activated when the LAN connector is removed.

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



2.  Once the mains power is switched on, the power LED starts flashing orange.
3.  The HomePilot® is ready for use as soon as the power LED lights up green continuously.

The user interface of the HomePilot® is accessed via the web browser on your computer.

**The following web browsers are supported:**

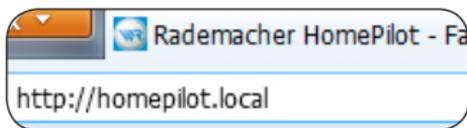
- ◆ Mozilla Firefox from version 44 on
- ◆ Apple Safari from version 7 on
- ◆ Google Chrome from version 48 on
- ◆ Microsoft Internet Explorer from version 11 on
- ◆ Microsoft Edge

**Similarly, it is possible to access the interface via a mobile browser.**

However, certain functions may vary from device to device due to the many different platforms on the market.

**Proceed as follows:**

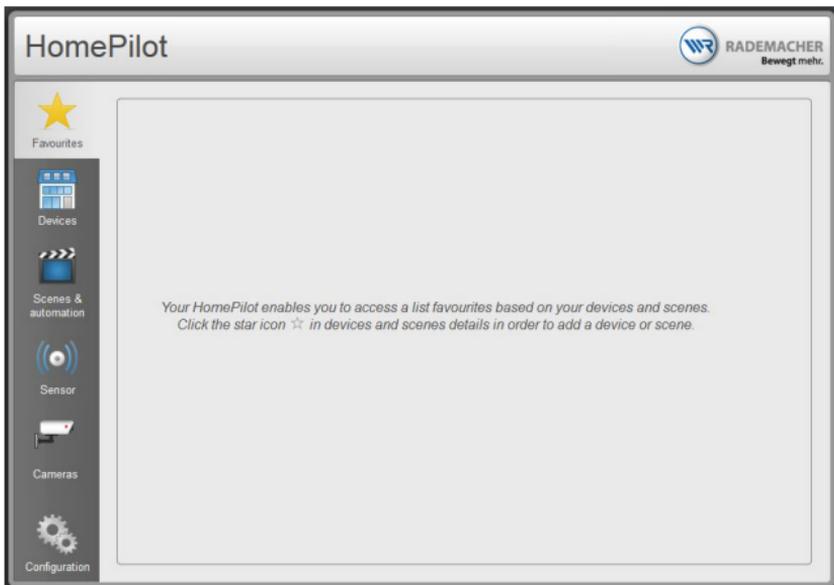
1. Launch your web browser and enter the following URL:  
**http://homepilot.local**



It may be that you only get access without the "local" suffix or via the IP address depending on the browser, operating system and network configuration.

- ◆ If the HomePilot® is not accessible via "http://homepilot.local", please refer to the information on page 27.

2. Your HomePilot® user interface then appears. The HomePilot® is now ready for use.



The screen layout may take a few seconds to load when first accessing the system (after connecting to the mains power or after rebooting it).

- ◆ The HomePilot® is then ready for use.

The navigation and operation on the user interface is explained in the detailed instruction manual.

You can find the current instruction manual in the downloads section of our website:

[www.homepilot.de/downloads](http://www.homepilot.de/downloads)

Enter the URL into the address bar of your browser.

### What can I do if the HomePilot® is not detected?

The HomePilot® may not be detected after the above-mentioned URL is entered depending on the type of router used.

In this case, it may be necessary to enter the IP address of the HomePilot® in the address bar of the browser.

**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 HomePilot® (see the underside of the device).

### Detecting existing LAN or WLAN devices in your home network

If you use your smartphone in a local WLAN radio network, the different iOS and Android apps offer an easy and convenient way to scan the network and display the available LAN and WLAN devices.

Search for a “network scan, e.g. FING” in the app stores.

The HomePilot® is continually updated through firmware updates.

1. Open the user interface of the HomePilot®.
2. Go to the "Configuration / System / Firmware" menu and check to see if an update is available.
3. Start the update (if available).
4. The installation can be started once the update has been successfully downloaded. The LED **1** flashes during this time.
5. The HomePilot® is rebooted after approx. 15 minutes. The  LED flashes orange and the LED **2** flashes green. This process may take several minutes. The HomePilot® is not ready for use during this phase.
6. A further reboot of the HomePilot® occurs in order to access the normal operating mode. The  LED flashes orange during this phase.
7. The HomePilot® is ready for use again as soon as the  LED lights up green again continuously.



The entire update process takes approx. 30 minutes plus the time for the download of the update.

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

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

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

[www.rademacher.de/ce](http://www.rademacher.de/ce)

RADEMACHER Geräte-Elektronik GmbH will provide a 24-month warranty for new systems that have been installed in compliance with the installation instructions. All construction faults, material defects and manufacturing defects are covered by the warranty.

Your statutory warranty claims remain unaffected by this warranty.

**The following are not covered by the warranty:**

- ◆ Incorrect fitting or installation
- ◆ Non-observance of the installation and operating manual
- ◆ Improper operation or wear and tear
- ◆ External influences, such as impacts, knocks or weathering
- ◆ Repairs and modifications by third parties, unauthorised persons
- ◆ Use of unsuitable accessories
- ◆ Damage caused by unacceptable excess voltages (e.g. lightning)
- ◆ Operational malfunctions caused by radio frequency overlapping and other such radio interference

A prerequisite for the warranty is that the new device must have been purchased from one of our approved specialist retailers. Proof of this must be provided by presenting a copy of the invoice.

RADEMACHER will remedy any defects that occur within the warranty period free of charge either by repair or by replacement of the affected parts or by supplying a new replacement unit or one to the same value. There is no general extension of the original warranty period by delivery of a replacement or by repair as per the terms of the warranty.



## **RADEMACHER**

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service@rademacher.de

\* 30 seconds free of charge, subsequently  
14 cents/minute from German fixed line  
networks and max. 42 cents/minute from  
German cellular networks.