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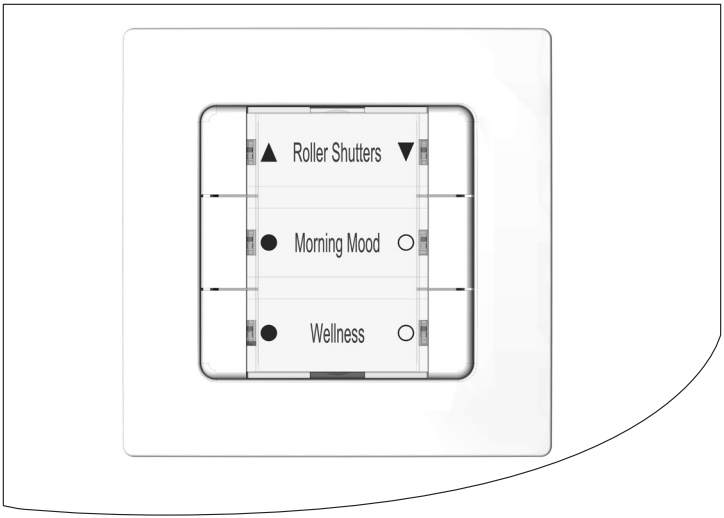
DuoFern Multiple Wall Controller 9494-1

Instruction manual for the electrical connection and for commissioning

Item no. 3250 19 74 / Type: 9494 -1 (surface-mounted with battery)



VBD 663-2 (12.16)

Dear Customer,

With your purchase of a **DuoFern Multiple Wall Controller**, you have chosen 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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1. This manual...

...describes the installation, commissioning and operation of your DuoFern Multiple Wall Controller 9494-1.

1.1 How to use this manual

- Before you begin, please read this manual through completely and follow all the safety instructions.
- Please also read the instruction manuals of the logged on DuoFern devices as well as of the respective connected appliance.
- This manual is part of the product. Please store it in an easily accessible place.
- When passing the DuoFern Multiple Wall Controller 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 warranty. We assume no liability for any consequential damage.

2. Hazrd symbols

The following hazard symbols are used in this instruction manual:

Danger of fatal electric shock

Danger area / dangerous situation

2.1 Levels of danger and signal words

DANGER!

This hazard will lead to serious injury or death if not avoided.

WARNING!

This hazard may result in serious injury or death if not avoided.

CAUTION!

This hazard may result in minor or moderate injury if not avoided.

ATTENTION!

This hazard may lead to property damage.

2.2 Symbols and depictions used

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Depiction	Description
1.	Procedures
2.	
◆	Itemisation
1) or a)	Lists
	further useful information
	Please read the respective manual.

2.3 Glossary - definition

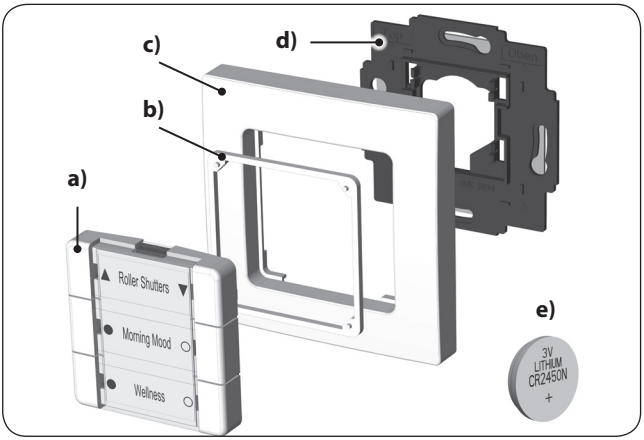
DuoFern

- ◆ RADEMACHER radio technology for controlling compatible products.

HomePilot®

- ◆ The HomePilot® is a central controller unit for RADEMACHER radio products.

3. Included in delivery



a) 1 x Operating unit (50 x 50 mm) with removable cover panel for the label insert

b) 1 x Spacer frame

c) 1 x Frame

d) 1 x Wall bracket

e) 1 x Battery (type: CR2450 / Li-Mn)

Not illustrated

f) 1 x double-sided adhesive strip

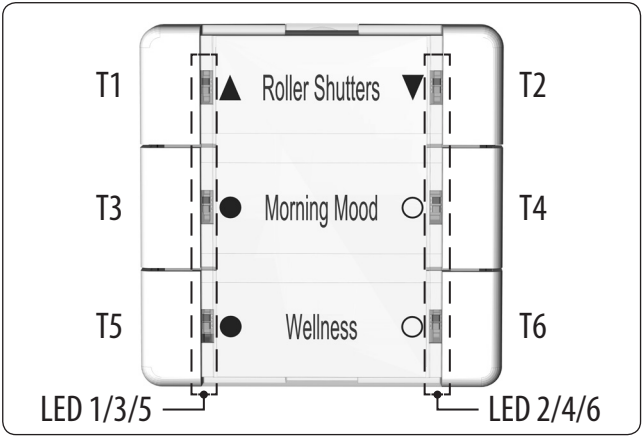
g) 1 x Label insert, see page 16.

h) 1 x Instruction manual

After unpacking please check and compare...

... the contents of the package with those specified above.

4. Front view of the operating unit



Symbol	Description
T1 to T6	Buttons 1 to 6
LED 1 to LED 6	Each button has a red/green LED

5. Product description

Function

The DuoFern Multiple Wall Controller serves to log on and control various DuoFern devices. The six operating buttons can be used to transmit the desired commands to the logged on DuoFern devices. Six two-tone LEDs (red/green) provide information on the respective status of the operation.

Max. number of DuoFern devices

A maximum of 8 DuoFern devices can be logged on per button group. When logging on, the individual DuoFern devices are automatically detected and recognised by the DuoFern Multiple Wall Controller.

Jog mode

To control Venetian blinds with slats, the DuoFern Multiple Wall Controller can be switched to jog mode.

5.1 Button functions

Controller	Design	Function	
		T1 T3 T5	T2 T4 T6
Activate or deactivate the light or appliance	1 x tap	ON	OFF
Control roller shutters / Venetian blinds	1 x tap	UP	DOWN
	tap again	STOP	STOP
Roller shutters / Venetian blinds in jog mode	1 x tap	briefly UP	briefly DOWN
	1 x long	UP	DOWN
	tap again	STOP	STOP
Dim light or save interim values	1 x tap	0 to 100 %	100 % to 0
	2 x tap	go directly to 100 %	go directly to 0
	1 x tap in opposite direction	e.g. save 75 %	e.g. save 45 %
	Press and hold	0 to 100 %	100 % to 0
	release	e.g. save 75 %	e.g. save 45 %

Activate the log-on mode, see page 21.

Activate the log-off mode, see page 22.

Clear the DuoFern network, see page 25.

Activate the jog mode, see page 26.

Software reset, see page 29.

6. Technical specifications

General information	
Nominal voltage:	3 V (DC)
Battery type:	1 x CR2450
Battery life:	2 years, with four switching processes per day. * * *Depending on the number of DuoFern devices logged on.*
Permissible ambient temperature:	0 to 40°C
Protection class:	II (*only for use in dry rooms*)
Dimensions (W x H x D):	50 x 50 x 12 mm (operating unit)

DuoFern radio technology	
Transmission frequency:	434.5 MHz
Transmission power:	max. 10 mW
Range:	indoors: approx. 30 m * outdoors: approx. 100 m ** depending on the building structure*
Max. number of DuoFern devices:	8 per button group 24 in total

Factory settings	
DuoFern devices:	none
Jog mode:	deactivated, for all groups

7. Safety instructions

The use of defective equipment can lead to personal injury and damage to property.

- Never use defective or damaged equipment.
- Check that the DuoFern Multiple Wall Controller is intact.
- Consult our customer service department in the event that you discover damage, see page 32.

7.1 Intended use

Only use the DuoFern Multiple Wall Controller to log on and control DuoFern devices.

Operating conditions

- The associated tubular motor must be fitted with a mechanical or electronic end position switch.
- Only use the DuoFern Wall Controller in dry rooms.
- The installation and operation of the radio systems is only permitted for those systems and devices where a malfunction in the transmitter or receiver would not cause a danger to personnel or property or where this risk is already covered by other safety equipment.

7.2 Improper use

Using the DuoFern Multiple Wall Controller for any other purpose than previously mentioned is not permissible.

Improper use can lead to serious injuries or property damage.

Never use the radio system (e.g. DuoFern radio system) and its components for the remote control of appliances and systems with increased safety-relevant requirements or where there is an accident risk. Such applications require additional safety equipment. Observe the respective statutory regulations for the installation of such systems.

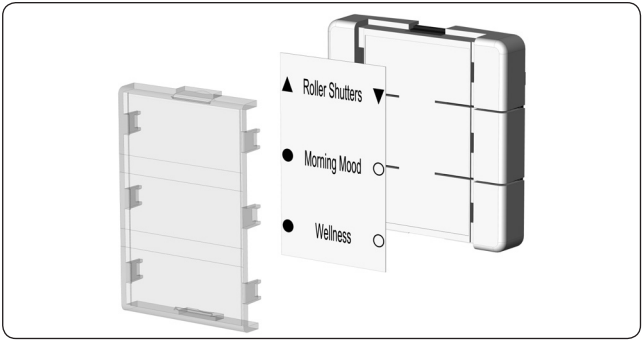
7.3 Required expert knowledge of the installer

The installation and commissioning of the DuoFern Multiple Wall Controller must only be carried out in accordance with the instructions in this manual.

8.1 Printing the label insert

1. The provided label insert can be printed with the application specified by you. Please only use a laser printer for printing. *

2. Lift the transparent cover panel from the operating panel and insert the printed paper into the cover panel. Next, press the cover panel on to the operating unit until it locks in place.



Templates can be found on our website: here, individual label inserts can be created and printed.
www.rademacher.de

* *Should you have no access to a laser printer, please alternatively use standard printing paper for the label insert.*

8.2 Selecting the suitable installation location

Avoid installation near disturbing sources

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

- Do not install the DuoFern Multiple Wall Controller in the proximity of powerful radio systems.
- In order to ensure optimal operation, the DuoFern Multiple Wall Controller should not be installed on a metallic base or near metal objects.

8.3 Installation of the DuoFern Multiple Wall Controller

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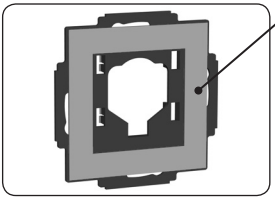
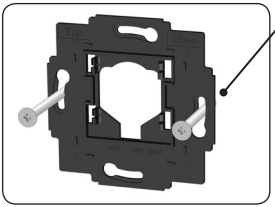
The DuoFern Multiple Wall Controller 9494-1 is intended for surface-mounting. The supplied wall bracket can be screwed in place or stuck to the wall.

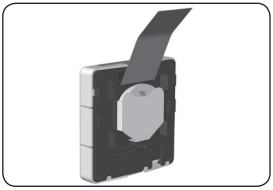
1. Select and mark the desired installation position.
2. Pull the protective film from the adhesive strip provided and stick it on the back of the wall bracket.
3. Remove the second protective film and firmly press the wall bracket with the adhesive strip on to the wall.



If you wish to screw the wall bracket on, you will need to drill the according installation holes and use appropriate wall plugs and screws.

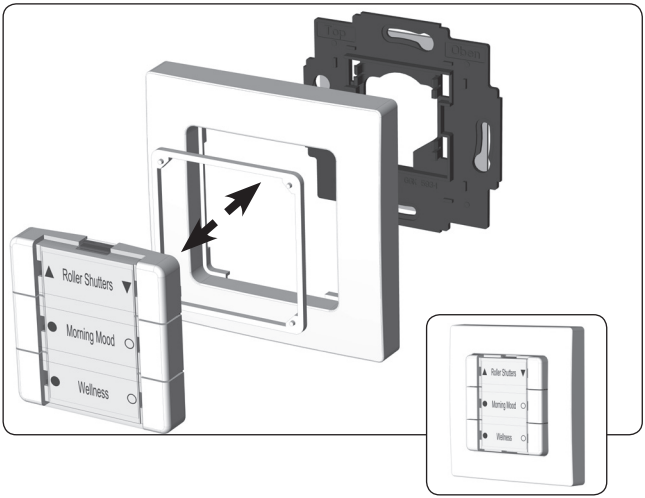


4. Carefully pull the separating film from the battery compartment.



5. Press the space frame onto the operating unit from the back.

6. Finally, press the operating unit and the frame on to the wall bracket so that the frame lies flush with the wall.



Information for logging on DuoFern devices

Only DuoFern devices or devices within the same class/category can be allocated to a specific button group.

When logging on, the individual DuoFern devices are automatically detected by the DuoFern Multiple Wall Controller, and the available button groups are displayed.

Please read the instruction manual for the respective DuoFern device.

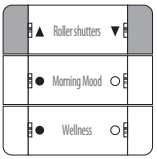
Max. number of DuoFern devices

You can log a maximum of 8 DuoFern devices on to each button group.

9.1 Logging on DuoFern Devices

1. Switch the desired DuoFern device to the registering mode (please refer to the relevant instruction manual).

2.



1 sec. Activate the registering mode of the DuoFern Multiple Wall Controller.
Simultaneously press and hold the buttons 1 and 2 for 1 second.
LEDs 1 and 2 will flash green.

120 sec. The registering mode remains active for approx. 120 seconds.

3. After successfully logging on, the LEDs of the remaining available buttons will light up green.

4. Tap on the desired available button group to allocate the new DuoFern device to this button group.

5. Log-on the next DuoFern device.

Pay attention to the LEDs

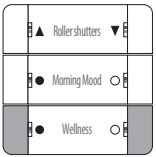
All LEDs will light up red, one after the other, if the log-on was unsuccessful. For example, if...

- 8 DuoFern devices are already logged on to a button group.
- an unsuitable device is logged on.

9.2 Logging off DuoFern devices

1. Switch the desired DuoFern device to the log-off mode (please refer to the relevant instruction manual).

2.



Activate the log-off mode on the DuoFern Multiple Wall Controller.

Simultaneously press and hold the buttons 5 and 6 for 1 second.

1 sec.

LEDs 5 and 6 will flash red.

120 sec.

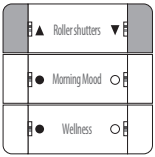
The log-off mode remains active for approx. 120 seconds.

3. After successfully logging off, the LED of the relevant button will light up green.

9.3 Logging on to the HomePilot®

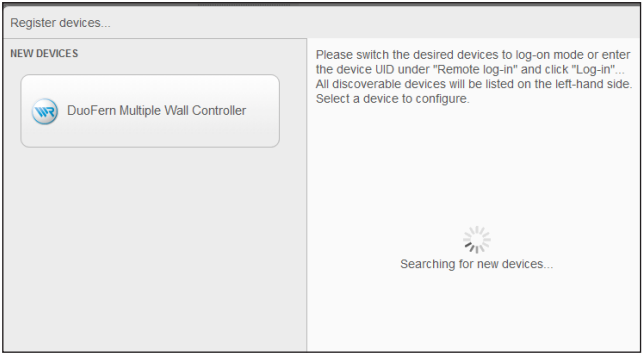
In combination with the HomePilot®, all 6 buttons of the DuoFern Multiple Wall Controller can be used to individually trigger scenes. To do so, it must first be logged on to the HomePilot®.

1. Open the user interface of the HomePilot® and click left on the button [**configuration**] and then on [**register device**].

2. 

1 sec. Simultaneously press and hold the buttons 1 and 2 for 1 second to activate the registering mode of the DuoFern Multiple Wall Controller.

3. Once successfully logged on, the DuoFern Multiple Wall Controller will be displayed in the left table:



4. Click on the device and assign an individual name, if required. In addition, a graphic symbol can be selected.

5. Save the setting. The DuoFern Multiple Wall Controller is then listed on the left under "transmitters" and can be used immediately.

9.4 Clearing up the DuoFern network

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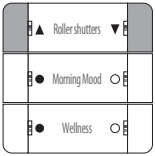
This function enables you to log off all DuoFern devices from the DuoFern Multiple Wall Controller that are no longer accessible via radio.

Not all battery-operated DuoFern devices can be logged off in this way.

A software reset must be carried out in order to logout and delete all DuoFern devices, see page 29.

1. 

5 sec. Activate the clear up.

Simultaneously press and hold the buttons 1 and 2 for 5 seconds.

During the clear up period, LEDs 1 + 2 will flash red.

2. Once the clear up process has been successfully completed, LEDs 1 + 2 will briefly light up green.

Cancelling the clear up function

You can cancel the clearing process at any time by briefly pressing any random button.

10. Activating the jog mode

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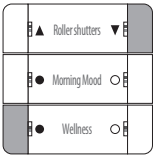
In the jog mode, the DuoFern Multiple Wall Controller can be used, e.g. to control Venetian blinds.

5 sec. Attention! The switching mode only remains active for approx. 5 seconds.

Activate the jog mode for one button group

1.



1 sec. Activate the switching mode.

Simultaneously press and hold the buttons 2 and 5 for 1 second.

LEDs 2 and 5 will flash red.

2. If there is a switching mode for one of the button groups, the according LEDs 1 to 6 will light up green.

left LED green	jog mode is deactivated
right LED green	jog mode is activated

10.1 Operation in jog mode

Tilting the slats

Briefly tapping the operating buttons enables Venetian blinds slats to be conveniently configured.

Driving the slats into the end position

Press the operating button longer to drive the Venetian blinds into the end position. The drive can be stopped by briefly tapping the button again, see page 11 "Button functions".

11. Changing the battery

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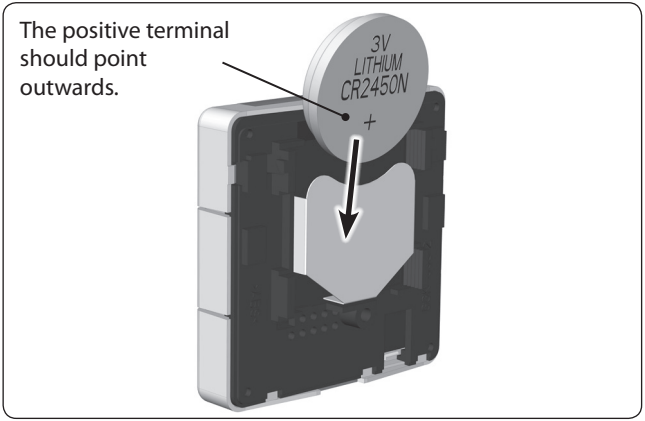
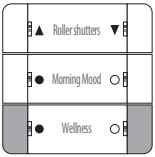
If the battery has discharged and needs to be changed, all red LEDs will briefly light up when any random button is pressed.

1. Carefully pull the operating unit out of the wall bracket.
2. Carefully press the battery out of the battery compartment using a flat, non-conductive object (e.g. a plastic rod).
3. Replace the battery with a battery of the same type "CR2450".
   Pay attention to the correct polarity when inserting a new battery.
4. Then insert the operating unit into the wall bracket again .



12. Erase all settings, software reset

A software reset must be carried out to reset the DuoFern Multiple Wall Controller to the original default condition as when supplied.

1. 

   Press and hold buttons 5 and 6 simultaneously until all LEDs continuously light up red.

2. All settings have been erased and reset to the default factory settings. All of the registered DuoFern devices are automatically logged-off.

13. Dismantling

1. Carry out a software reset to log off all DuoFern devices from the DuoFern Multiple Wall Controller.
2. Carefully pull the operating unit and then the frame out of the wall bracket.
3. Remove the wall bracket from the wall.
4. If required, remove the battery from the DuoFern Multiple Wall Controller.

14. Simplified EU Declaration of Conformity

RADEMACHER Geräte-Elektronik GmbH hereby declares that the DuoFern Multiple Wall Controller 9494-1 complies with the Directive **2014/53/EU** (**Radio Equipment Directive**).

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

www.rademacher.de/ce

15. Warranty Terms and Conditions

RADEMACHER Geräte-Elektronik GmbH shall 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 shall be covered by the warranty.

Your statutory warranty claims shall remain unaffected by this warranty.

The following shall not be covered by the warranty:

- Incorrect fitting or installation
- Non-observance of the installation and operating instructions
- 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 bill.

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

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