

DuoFern® Hand Transmitter Operating Instructions

Article No. 9491

VBD 473-1-D (07.08)

Dear customer ...

...in purchasing this **DuoFern® hand transmitter**, you have decided on a quality product manufactured by Rademacher.

We would like to thank you for your confidence.

This **hand transmitter** has been developed with such aspects as optimum operability and convenience in mind, as well as those of solidity and durability. With uncompromising quality requirements and after an extensive test series phase, we are now proud to present you with this innovative product.

All of our highly qualified staff at
RADEMACHER stand behind this product.

CE mark and conformity

This present **DuoFern® hand transmitter** (art. no. 9491) complies with the requirements of the applicable European and national directives. The conformity has been certified and the corresponding declarations and documentation are on file at the manufacturer's premises.

These operating instructions...

... describe the installation, the electrical connection and the operation of your hand transmitter.

Please read these instructions completely and observe all of the safety instructions before commencing with the installation.

Please keep these instructions in a safe place and include them with the device in the event it changes owners.

The warranty becomes null and void in the event of any damage or loss caused by failure to observe these operating and safety instructions. We accept no liability for any consequential losses or damage resulting from non-observance of these instructions.

General view (art. no. 9491)

LED status green / orange

UP (on/off)

DOWN (off/on)

Device buttons or group buttons (1 ... 6)

STOP (off)

Fixing screw for the rear housing

Connect button

u Register mode

u Purge function

Space for notes

Disconnect button

u Delete mode

u Reset

Identification plate

Key to symbols/ General safety advice

This concerns your safety.

Please pay particular attention to and carefully follow all instructions with this symbol.

This symbol advises of malpractices that may cause damage to people and property.

ADVICE/IMPORTANT/CAUTION

This heading indicates information that is important to the proper functioning of the device.

Improper use increases risk of injury.

- u Children must not be allowed to play with the DuoFern® hand transmitter.
- u Please store the DuoFern® hand transmitter in such a way that it cannot unintentionally be operated by playing children, for example.

Proper use / operating conditions

Use the DuoFern® hand transmitter only...

... for the remote control of:

- u Roller shutters
- u Electrical consumers (e.g. lighting)

Operating conditions

- u The **DuoFern® radio system** may only be operated with and installed in systems and devices in which transmitter or receiver faults do not present any danger to persons or property or for which these hazards are removed by the use of other safety equipment.
- u Use the DuoFern® hand transmitter only in dry rooms.

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Improper use

Never use controls with DuoFern® radio technology (e. g. Rollotron® Pro comfort DuoFern® and DuoFern® hand transmitter) for remote operation of devices and equipment with increased safety requirements or increased risk of accident. Additional safety equipment is required to do so. Please observe the relevant legal regulations for setting up such systems.

Functional description

Brief description

With the DuoFern®-radio system a bidirectional data exchange is possible between the various participants of a radio network.

- ◆ All switching commands from a DuoFern transmitter will be confirmed by the DuoFern® receivers.

SLAVE

Roller shutter in the bedroom

Light in the bedroom

Roller shutter in the office

Roller shutter in child's bedroom

Outside lighting

Light in the cellar

MASTER

Functional description

Using the DuoFern® hand transmitter you can manually remotely control various DuoFern® devices (e.g. Rollotron® Pro comfort/standard DuoFern® or Duo-Fern® actuators for lighting).

Command buttons

With the aid of the three command buttons, Up (ON/OFF)/Stop (OFF) / Down (ON/OFF), see page 3, you can transmit manual switching commands to the registered DuoFern®-end devices.

Device buttons or group buttons

The DuoFern® radio hand transmitter has 6 device or group buttons (see page 3) which you can allocate to any DuoFern® end devices. In this way it is possible to have an individual as well as a group control of various devices (see page 9).

Number of controllable DuoFern® end devices

Each group button can be assigned to up to 8 DuoFern®-end devices.

With a DuoFern® hand transmitter you can control up to 48 DuoFern® end devices in 6 groups or operate 6 devices in an individual control.

Status LED

The two-coloured status LED shows whether all DuoFern® end devices have received and confirmed the switch signal.

Register DuoFern® end devices

In order to be able to operate a DuoFern® end device with the DuoFern® hand transmitter, this must be registered with the DuoFern® end device concerned.

1. **Switch the desired DuoFern® end device to the register mode.**
(see corresponding operating instructions)
2. **Give the "connect" button a short press**

TIP

Use a thin, not too sharp object to press the connect button.

3. **The LED's from all device buttons or group buttons light up.**

60s

ADVICE

- ◆ A fully allocated group button does not light up.
- ◆ * 60 seconds

Register DuoFern® end devices

4. Press the desired device button that you wish to use later to select the device.

Observe the status LED

Green: The registration was successful.

Orange: The button is already fully allocated.

5. 1....4 Repeat points 1 to 4 in order to register the next device.

ADVICE 1

◆ If a device has several channels (e.g. 2-channel actuator art.-no. 9470), you must select a group button for each channel.

◆ In the case of devices with several channels, it will jump automatically to point 3 until all of these channels have been worked through.



ADVICE 2

You can also register a device several times, e.g. to realise an individual control and a group control:

- Rollotron Pro DuoFern 1 on button 1
- Rollotron Pro DuoFern 2 on button 2
- Rollotron Pro DuoFern 3 on button 3
- Rollotron Pro DuoFern 1/2/3 on button 4

Please note that a maximum of 8 different devices are possible per button.

Delete DuoFern® end devices

1. Switch desired DuoFern® end devices to delete mode.
(see corresponding operating instructions)

2. Give the "disconnect button" a short press

TIP

Use a thin, not too sharp object to press the disconnect button.

3. If the deletion is successful the green status LED lights up.

ADVICE

The DuoFern® end device has been deleted from all device buttons or group buttons.

Activate purge

Purge

- ◆ This function deletes all DuoFern® end devices that are registered but that no longer react. This could be necessary, for example, in the case of a faulty device which can no longer be deleted as described above.

ADVICE

- ◆ All battery powered DuoFern devices are **not to be/cannot** be deleted in this way.
- ◆ To delete **all** DuoFern® end devices from the DuoFern® hand transmitter, you must perform the function "Delete settings" (see page 13).

1. Press the "connect button" and keep it pressed until the green status LED lights up.

The DuoFern® hand transmitter now sends a control signal to all registered DuoFern® end devices. The devices which do not confirm the signal will be automatically deleted.

Observe the status LED

Green: The purge was successful
Orange: The purge mode is still active
flashing:

Manual operation

1. Press the desired device button or group button.
2. Open the roller shutter
or
switch electrical consumer on/off
3. Stop the roller shutter
or
switch off electrical consumer
4. Close the roller shutter
or
switch electrical consumer on/off

Observe the status LED

Orange: Switch signal is being transmitted

Green: Confirmation received

Delete settings

1. **Press the "disconnect button" and keep it pressed**

The status LED flashes orange

2. **Let go of the "disconnect button" as soon as the orange status LED is permanently lit up**

All settings on the DuoFern® hand transmitter are deleted.

Technical data

Transmission frequency:	434.5 MHz
Transmitting power:	10 mW
Range:	
- Free field:	approx. 100 m
- Indoors:	approx. 30 m (depending upon the building fabric)
Supply voltage:	3 V
Battery type:	CR2450
- Service life 1:	approx. 2 years, if actuated 5 times per day
- Service life 2:	approx. 5 years. standby
Max. number of groups:	6
Max. number of devices:	48
Permissible ambient temperature:	+5°C to +40°C
Dimensions L x W x H:	140 x 43 x 18 mm
Weight:	70 g

Technical data

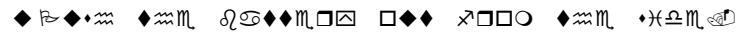
Battery change

If the battery is almost empty, the status LED flashes orange when you operate the DuoFern® hand transmitter.

- ◆ The battery can be found in the battery compartment on the rear of the DuoFern® hand transmitter.

- ◆ Unfasten the rear housing with a screwdriver.

- ◆ Carefully lift off the rear housing.

- ◆ 

- ◆ When you insert the battery ensure that the polarity is correct. The + pole of the battery must face upwards.

ADVICE

Empty batteries are hazardous waste and must not be disposed of with non-recyclable refuse.

