

Radio wall transmitter 1gang flat

Order-No. : 2721 xx

Radio wall transmitter 2gang flat

Order-No. : 2722 xx

Radio wall transmitter 4gang flat

Order-No. : 2724 xx

**Operation- and
Assembly Instructions**

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Keep button cells out of reach of children! If button cells are swallowed, get medical help immediately.

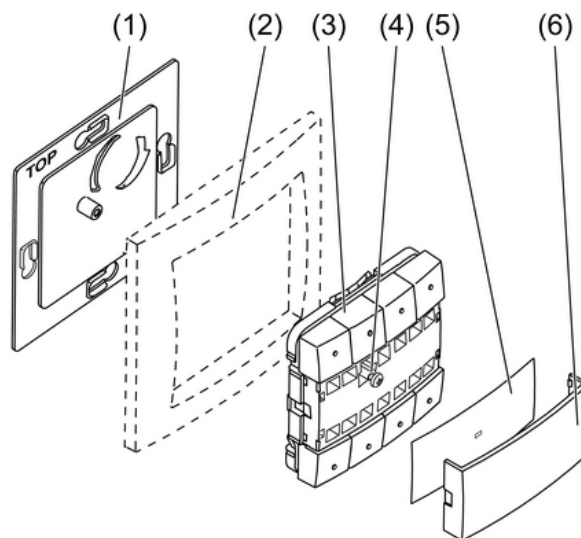
Risk of explosion! Do not throw batteries into fire.

Risk of explosion! Do not recharge batteries.

The radio communication takes place via a non-exclusively available transmission path, and is therefore not suitable for safety-related applications, such as emergency stop and emergency call.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components



picture 1

- (1) Base plate
- (2) Frame
- (3) Radio wall transmitter
- (4) Fastening screw
- (5) Labelling field
- (6) Cover

3 Function

System information

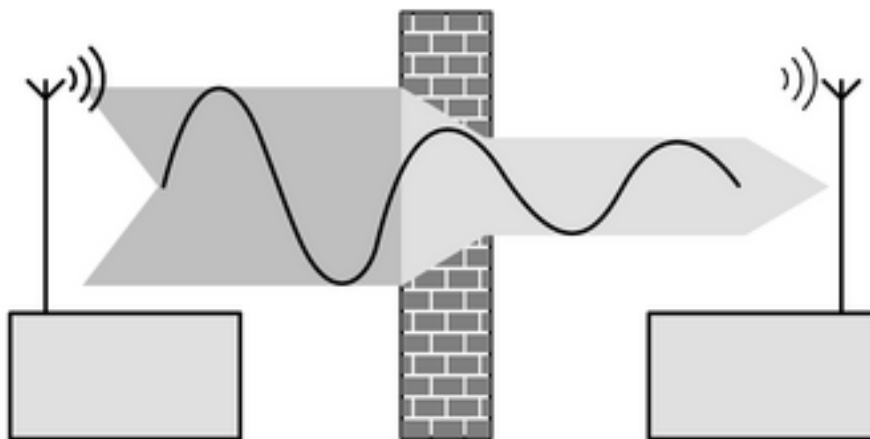
By statute, the reception characteristics and the antenna cannot be changed.

The device may be operated in all EU and EFTA countries.

The declaration of conformity can be viewed on our website.

The range of a radio system from the transmitter to the receiver depends on various circumstances.

The range of the system can be optimised by selecting the optimal installation location, taking into account the structural circumstances.



picture 2: Reduced range due to structural obstacles

Example of penetration of various materials:

Material	Penetration
Wood, Plaster, Plasterboard	approx. 90%
Brick, Chipboard	approx. 70%
Reinforced concrete	approx. 30%
Metal, Metal grid	approx. 10%
Rain, Snow	approx. 1-40%

Intended use

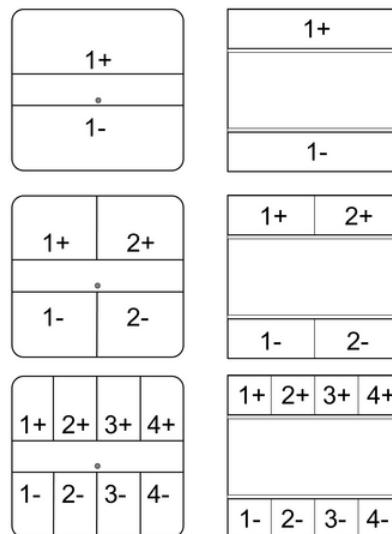
- Radio transmitter for transmission of switching, dimming, blind movement and light scene commands
- Surface-mounted
- Operation with suitable radio actuators

Product characteristics

- Each two opposite buttons belong to one channel
- Functions can be set with 4gang function switch
- Special functions "All Off" or "Light scene" can be assigned to individual buttons
- Battery-powered device

4 Operation

Channel assignment of the wall transmitter



picture 3: Channel assignment 1-gang, 2-gang, 4-gang

Sending radio telegrams

- Press channel button, e.g. **1+**, to transmit a radio telegram.

The corresponding LED lights up as an acknowledgement.

As long as no light scene functions were selected, the following responses occur, depending on the type of receiver:

Button	Length	Lighting	Venetian blind
X+	less than 1 second	Switch on	Slat adjustment
X-	less than 1 second	Switch off	Slat adjustment
X+	longer than 1 second	brighter	Blind moves up
X-	longer than 1 second	darker	Blind moves down

- i** The maximum transmitting length is 12 seconds, even if another button is pressed after that.
- i** If more than one button is pressed at the same time, the radio telegram of only one button is transmitted.

Calling up light scenes

Light scene button has been taught (see Commissioning).

- Press the light scene button for shorter than 3 seconds.
Receivers switch to the stored light scene value.


Save light scene

Light scene button has been taught (see Commissioning).

Function switch 4 is in the position **ON**.

- Set the required lighting situation.
- Press the light scene button for longer than 3 seconds.

First the old light scene is called up; do not release the button during this. After about 3 seconds the new light scene is saved and activated.

-  If during saving of a light scene the blind is not in an end position, or is on the way there, then that blind is not integrated into the light scene.

Call up All Off

In the teaching procedure for a channel button or a light scene button, the All Off button of the receiver is automatically also taught, with the exception of radio blind actuators.

Function switch 1 is in the **OFF** position (see Commissioning).

- Press button **1**- longer than 1 second.
The loads at all taught receivers are switched off.


5 Information for electrically skilled persons

5.1 Fitting and electrical connection

Connecting and mounting the device

Maintain a distance of at least 1 m between transmitter and receiver.

Maintain distance from large-area metal objects, e.g. metallic door frames.

-  Perform commissioning and teaching procedures before installation (see Commissioning chapter).
- Using a screwdriver, carefully remove cover (6) and labelling field (5) from wall transmitter.
 - Slacken fastening screw (4).
 - Remove wall transmitter (3) from the base plate (1).
 - Inset battery if necessary (see section Changing the battery).
 - If necessary, set functions using function switch (see Commissioning chapter).
 - Glue or screw base plate to even surface; the **TOP/OBEN** label has to be at the top.
 - Screw wall transmitter onto base plate.
 - Carefully attach inscription panel cover and inscription panel.

Changing the battery



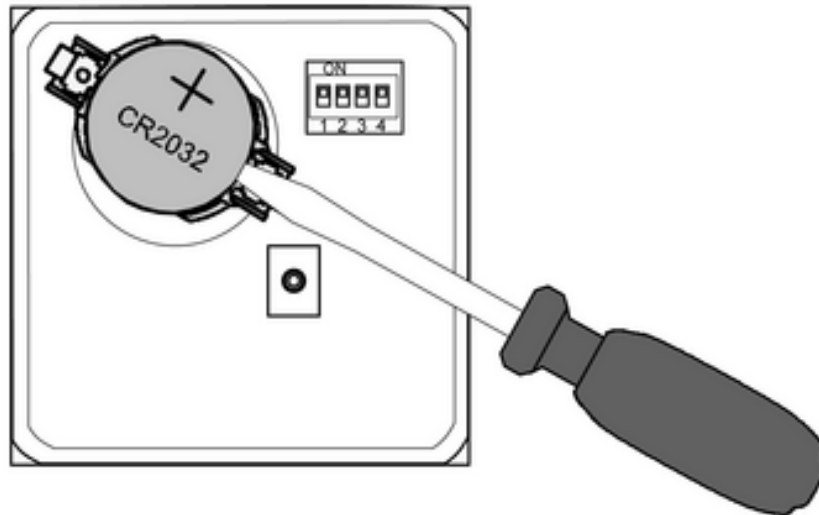
WARNING!

Risk of chemical burns.

Batteries can burst and leak.

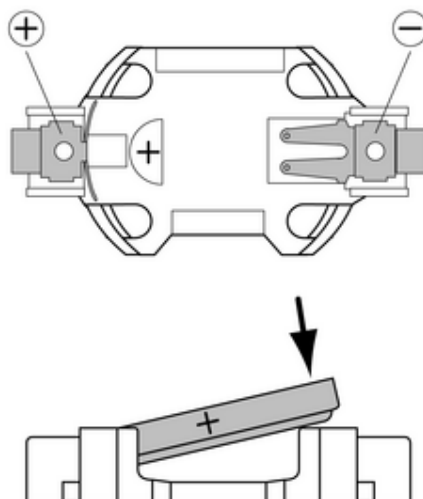
Replace batteries only with an identical or equivalent type.

- Unscrew wall transmitter from the base plate and remove it (see section Connecting and mounting the device).



picture 4: Remove battery

- Remove empty battery carefully using a screwdriver.



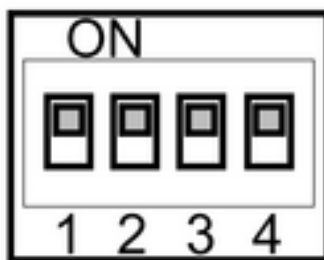
picture 5: Insert battery

- i** Keep contacts of batteries and device free of grease.
 - Apply new battery to the positive contact of the battery holder. Observe polarity: the positive pole of the battery must be at the top.
 - Press gently on battery to snap it in.
 - Mount wall transmitter on base plate.
 - Press any button for approx. 1 second.

5.2 Commissioning

Setting functions

Wall transmitter is unscrewed from the base plate.



picture 6: Function switch

- i** In the state as delivered all function switches are set to the **ON** position.
- Select functions of the buttons with the function switches according to the following table .

Function switch	Button	ON top	OFF bottom
1	Button 1- Button 1+	Channel 1- Channel 1+	All off Light scene 1
2	Button 2- Button 2+	Channel 2- Channel 2+	Light scene 2 Light scene 3
3	Button 3- Button 3+	Channel 3- Channel 3+	Light scene 4 Light scene 5
4	Button 4- Button 4+	"Save light scenes" possible	"Save light scenes" disabled

- i** Function switch 4 can be used to disable the saving of light scenes for buttons 1 - 3.
- i** The buttons **4+** and **4-** always correspond to the channels **4+** and **4-**.

Teaching transmitter in radio receiver

In order for a receiver to understand a radio telegram from the transmitter, the receiver has to "learn" this radio telegram. A channel of the transmitter can be taught in any number of receivers. The teaching procedure only results in an assignment in the receiver.

When teaching a transmitter, the range of the receiver is reduced to about 5 m. The distance between the receiver and the transmitter being taught should therefore be between 0.5 m and 5 m.

The function switch for the channel being taught is set to **ON**.

- Switch radio receiver to programming mode (see instructions for receiver).
 - Press the "+" or "-" button of the desired channel longer than 1 second.
 - Exit programming mode of the receiver (see instructions for the receiver).
- The channel of the transmitter has now been taught in the radio receiver.

Teaching a light scene button

The function switch for button being taught is set to **OFF**.

- Switch receiver to programming mode (see instructions for receiver).
 - Press the light scene button for longer than 3 seconds.
 - Exit programming mode of the receiver (see instructions for the receiver).
- Light scene button has been taught.

Deleting All Off

If a certain receiver should not respond to the All Off button, then this function has to be deleted.

- Switch receiver to programming mode (see instructions for receiver).

- Press All Off button 1- for longer than 10 seconds.
Function has been deleted.
- Exit programming mode of the receiver (see instructions for the receiver).

6 Appendix



Remove empty batteries immediately and dispose of in an environmentally friendly manner. Do not throw batteries into household waste. Consult your local authorities about environmentally friendly disposal. According to statutory provisions, the end consumer is obligated to return used batteries.

6.1 Technical data

Rated voltage	DC 3 V
Battery type	1×lithium CR 2032
Ambient temperature	0 ... +55 °C
Relative humidity	max. 75 % (No moisture condensation)
Protection rating	IP 20
carrier frequency	433.42 MHz (ASK)
Transmitting range in free field	typical 100 m
Transmitting power	< 10 mW

6.2 Troubleshooting

After a brief button-press the LEDs flash five times.

Cause: battery in the wall transmitter is almost empty.

Change battery (see section changing the battery).

Receiver does not respond, or only sometimes.

Cause 1: Radio range exceeded. Structural obstacles reduce the range.

Using a radio repeater.

Cause 2: function switches are in the wrong position.

Check positions of function switches.

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

Berker GmbH & Co. KG

Klagebach 38
58579 Schalksmühle/Germany
Telefon + 49 (0) 2355/905-0
Telefax + 49 (0) 2355/905-111
www.berker.de