

Radio hand-held transmitter Comfort
Art. No. 48 KFH
Radio hand-held transmitter Standard
Art. No. 48 FH

Operating 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.

Risk of explosion! Do not recharge batteries.

Risk of explosion! Do not throw batteries into fire.

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

2 Device components

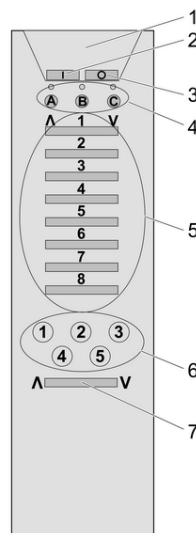


Figure 1

- (1) Hand transmitter
- (2) All On button
- (3) All Off button
- (4) Group buttons with LED
- (5) Channel buttons
- (6) Light scene buttons, only hand transmitter comfort
- (7) Master dimming button, only hand transmitter comfort

3 Function

System information

By statute, the transmitting power, 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.

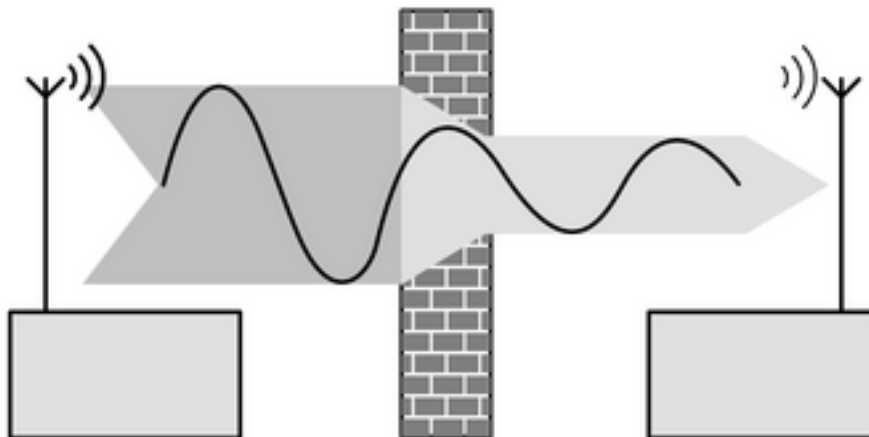


Figure 2: Reduced range due to structural obstacles

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

Product characteristics

- 3 groups A, B, C each with 8 channels for switchtin, dimming and blinds, e.g 24 radio channels can be operated individually.
- All on or All off buton for simultaneous switching of all loads
- Saving and calling-up of up to 5 light scenes, only hand transmitter comfort
- Master dimming switch for switching and dimming of light scenes, only hand transmitter comfort
- Battery-powered device

4 Operation

Activation of a group

For better structuring of the channels (e.g. after rooms or stages); 3 groups (A, B, C), each with 8 channels are available. In each case, one group with eight functions can be controlled directly.

If one of the eight channel buttons is pressed, then the LED of the active LED lights up briefly.

i Once the batteries have been inserted, Group A is active.

Brief changing of the group.

- Press group button for less than 4 seconds.
Desired channel button must be pressed within 4 seconds, after which the previously set group becomes active again.

Permanent changing of the group

- Press group button for longer than 4 seconds.
The LED of the group flashes for approx. 4 seconds.
Desired group is active continuously.

Transmitting radio telegrams

Each channel button can be operated on the left Λ or right V.

The radio transmitter has been taught (see Commissioning chapter).

- i** No telegram is sent when several buttons are pressed at the same time.
 - Press desired channel button.
Group LED lights up as long as the channel button is pressed,
Receiver responds depending on the channel button pressed and the length of the button-press.

Channel button	Length	Lighting	Venetian blind
left Λ	less than 1 second	Switch on	Slat adjustment
left Λ	longer than 1 second	Switch on/brighter	Blind moves up
right V	less than 1 second	Switch off	Slat adjustment
right V	longer than 1 second	Switch off/darker	Blind moves down

- i** The maximum transmitting length is 12 seconds, even if another button is pressed after that.

Call up All On/All Off

- i** During teaching of the first channel of the hand-held transmitter, the receiver learns the All on/All off button automatically.

The manual transmitter is taught into the receiver.

- Press the All On (2) or All Off button (3) for longer than 1 second.
The load is switched on or off on all receivers.
As an acknowledgement, all group LEDs (4) light up for approx. 12 seconds.

Change All On/All Off

If receivers do not switch to 100% brightness or switch Off when the All On or All Off button is pressed, the brightness value can be changed for each receiver.

- Press the All On or All Off button for at least 1 second.
All taught receivers switch On or Off.
- Adjust the desired lighting situation for All On or All Off.
- Press the All On or All Off button for at least 10 seconds.
First the old lighting situation is called up; do not release the button during this. After about 10 seconds the new lighting situation is activated and saved.
The three group LEDs flash as an acknowledgement.

- i** If a receiver does not respond anymore to the All On or All Off button, the receiver must be in the programming mode while changing from All On or All Off (see instructions for the receiver).

Save light scene, only hand transmitter comfort

The scope of a light scene includes:

- Fixed dimming value of a lighting, e.g. 70% of the maximum brightness or
- fixed switching state of a load, e.g. fan switched on or
- fixed end position of a blind, e.g. blind lowered.

Light scene button (6) has been taught (see Commissioning chapter).

- Set the required lighting situation.
- Press the desired 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.

Call up light scene, only hand transmitter comfort

Light scene button (6) has been taught (see Commissioning chapter).

- Press the light scene button for shorter than 3 seconds.
Receiver switches to the stored light scene value.

Change light scene with master dimming button, only hand transmitter comfort

Only possible with the actual radio dimmer.

- Press master dimming button (7) for less than 1 second.
The last light scene called up is switched on or off.
- Press master dimming button (7) for longer than 1 second.
The last light scene called up is made brighter or darker.

i A blind cannot be operated using the master dimming button.

5 Information for electrically skilled persons

5.1 Commissioning

Insert batteries

i The batteries are not included in the scope of delivery.

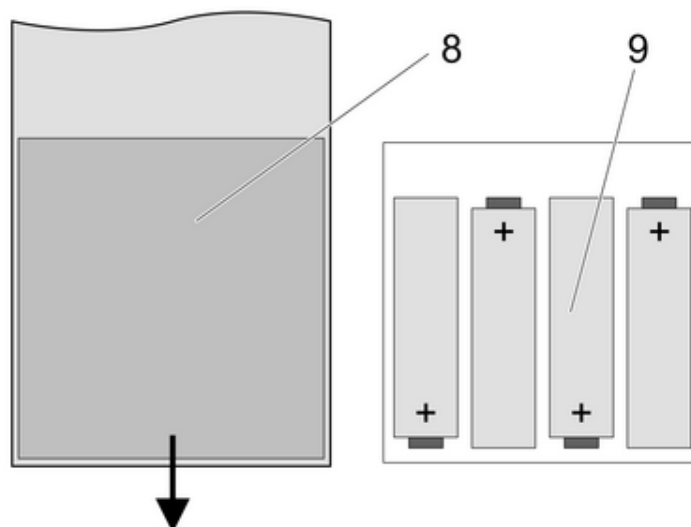


Figure 3: Insert batteries

- Open the battery compartment (8) on the rear of the housing by pressing on it lightly.

**WARNING!****Risk of chemical burns.****Batteries can burst and leak.****Exchange all batteries in a set at the same time.****Replace batteries only with an identical or equivalent type.**

- Insert batteries (9). Note the correct polarity.
- Close battery compartment.

Teach the channel of the radio transmitter or the light scene button.

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

When teaching a radio 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.

- Switch receiver to programming mode (see instructions for receiver).
- Press the Λ / V button of the desired channel for longer than 1 second or press the light scene button for longer than 3 seconds.
The LED of the receiver lights up as an acknowledgement of the teaching procedure.
- Exit programming mode of the receiver.
The channel of the radio transmitter or the light scene button has been taught.

i The taught receiver can be entered on the supplied label. The label can be stuck on the back of the hand-held transmitter.

Deleting the channel of the hand-held transmitter

- Teach-in the channel to be deleted again.

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.



The icon confirms the conformity of the product to the relevant guidelines.

6.1 Technical data

Rated voltage	DC 6 V
Battery type	4×alkaline LR 03
Ambient temperature	0 ... +55 °C
Relative humidity	max. 80 % (No moisture condensation)
Dimensions W×H×D	192×53×23 mm
Carrier frequency	433.42 MHz (ASK)
Transmitting range in free field	typical 100 m
Transmitting power	< 10 mW

6.2 Troubleshooting**After a button-press all LEDs flash for approx. 4 seconds**

Cause: batteries in the transmitter are almost empty.

Change batteries (see section insert the batteries).

Radio receiver does not respond, or only sometimes.

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

Using a radio repeater.

6.3 Warranty

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

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office.

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