

eNet radio hand-held transmitter 1-gang

Art. no.: FMHS1T

Operating instructions**1 Safety instructions**

Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

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 Battery safety instructions

This device or its accessories are supplied with batteries in the form of button cells.

DANGER! Batteries can be swallowed. This can lead directly to death by suffocation. Dangerous substances may cause severe internal burns leading to death within 2 hours.

Keep new and used batteries away from children.

Do not use devices if the battery compartment does not close securely and keep away from children.

If you suspect that a battery has been swallowed or is in any orifice of the body, seek immediate medical attention.

WARNING! Improper handling of batteries can result in explosion, fire or chemical burn due to leakage.

Do not heat or throw batteries into fire.

Do not reverse polarity, short-circuit or recharge batteries.

Do not deform or disassemble batteries.

Replace batteries only with an identical or equivalent type.

Remove empty batteries immediately and dispose of in an environmentally friendly manner.

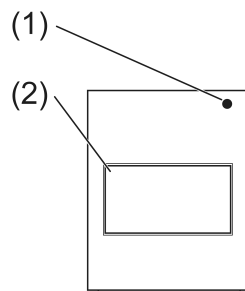
3 Device components

Figure 1: Radio hand transmitter 1-gang

- (1) Status LED
- (2) Button

4 Function**Intended use**

- Radio hand transmitter for radio transmission of switching, dimming, and blind movement commands

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- Operation with radio actuators from the eNet system

Product characteristics

- A button for switching and dimming a channel
- Status indication with LED
- Battery-powered device
- Signalling of transmission errors can be switched off

Can be set with eNet server:

- Scenes: All On, All Off, individual scenes
- Operation locks

Supplementary functions with eNet Server

- Fully encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

5 Operation

- i** When operating with the eNet Server, operation and signalling could vary from what is described here.

The radio hand-held transmitter is optimised for switch actuators in push-button operation. Button pressed, push-button actuator switches on, Button released, push-button actuator switches off.

In addition, the hand-held transmitter can be used in various ways:

- Single-area operation, lighting: Switching lighting on or off or dimming brighter/darker takes place alternately when the button is pressed repeatedly.
- Single-area operation, Venetian blind: Upward or downward movement takes place alternately when the button is pressed repeatedly.

- i** It may be the case that the button has to be pressed twice, in order to obtain the desired result.

Function of status LED in operation

As soon as the button is pressed or released, the status LED (1) first signals radio transmission

- LED turns red for 3 seconds

and then the actuator status

- LED turns green for 3 seconds:
At least one actuator is switched on, or one Venetian blind is not in the top end position
- LED remains off:
All the actuators are switched off or the blinds are all in the upper end position

or - if there is no status message from an actuator - a transmission error.

- The LED rapidly flashes red for 5 seconds:
The status message of at least one actuator is missing

Operating light

- Switching: Press button for less than 0.4 seconds.
- Dimming: Press the button for longer than 0.4 seconds. The dimming process ends when the button is released.
- Switching on at minimum brightness: Press the button for longer than 0.4 seconds.

Operating blind

- Moving the Venetian blind: Press the button for longer than 1 second.

- i** Change of direction for moving Venetian blind: Press the button for longer than 1 second. Change of direction for stationary Venetian blind: First, press the button for less than 1 second, then press the button for longer than 1 second.

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- Stopping the Venetian blind: Press the button for less than 1 second.
- Adjusting the Venetian blind: Press the button for less than 1 second.
- i** If the break between the two button actuations is longer than approx. 1 second, the direction will change.

Operating push-button actuator

- Press the button. The load is switched on for the duration of the button-press.
- i** The maximum actuation length is 60 seconds.

6 Information for electrically skilled persons**DANGER!**

Mortal danger of electric shock.

During commissioning, cover the parts carrying voltage on radio transmitters and actuators and in their surrounding area.

6.1 Commissioning**Inserting the battery**

The battery is included.

- i** Obey the battery safety instructions.
 - Unscrew the battery compartment on the back of the hand-held transmitter. Use a small flat head screwdriver or Phillips screwdriver PH1 for this.
 - Keep contacts of batteries and device free of grease.
 - Apply 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.
 - Close and screw the battery compartment with max. 0.3 Nm.
- Hand-held transmitter is ready for operation.

Connecting to radio actuator

The **Prog** (Figure 2) button can be pressed with a thin wire or paper clip through the hole in the battery cover.

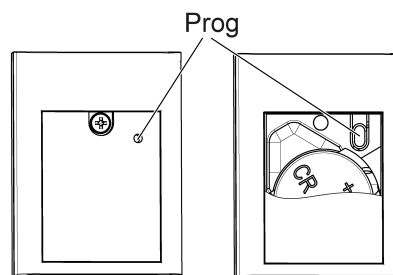


Figure 2: Button Prog

- i** Up to 10 radio actuators can be connected to a transmitter in a single step.
- Switch the actuator to programming mode (see actuator instructions).
- Press the **Prog** (Figure 2) button for longer than 4 seconds. Status LED (1) flashes red. The hand-held transmitter is in programming mode for approx. 1 minute.
- Press button briefly.

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The status LED lights up for approx. 5 seconds, and the hand-held transmitter is connected to the actuator. The hand-held transmitter and actuator exit the programming mode automatically.

- i** If the status LED of the radio transmitter flashes 3 times at 1-second intervals for approx. 5 seconds, then the programming operation was not successful. The actuator is outside radio range, not in programming mode or there are radio faults.
- i** If the status LED of the actuator flashes 3 times at 1-second intervals for approx. 5 seconds, then the programming operation was not successful. All the memory locations in the actuator or radio transmitter are occupied.
- i** Press the **Prog** button once again for longer than 4 seconds to terminate the programming mode earlier.

Disconnecting connection to an actuator

- Carry out the same steps as when connecting (see the chapter Connecting to radio actuator).
The status LED of the actuator flashes quickly for 5 seconds. The actuator is disconnected from the radio transmitter. The actuator and radio transmitter exit the programming mode automatically.

Reset button

All connections of the button (2) to the actuators are disconnected and parameters are reset to default setting.

- i** The connections in the actuators are preserved and must be deleted separately.
- Press the **Prog** button for longer than 20 seconds.
The status LED (1) flashes red after 4 seconds. The status LED flashes faster after 20 seconds.
- Release the **Prog** button and press the button (2) briefly once again within 10 seconds.
The status LED flashes more slowly for approx. 5 seconds.
The button (2) is reset. The setting as channel button or scene button is retained.

Resetting the hand-held transmitter to the default setting

All connections to actuators are disconnected and parameters are reset to default setting.

- i** The connections in the actuators are preserved and must be deleted separately.
- Press the **Prog** button for longer than 20 seconds.
The status LED (1) flashes red after 4 seconds. The status LED flashes faster after 20 seconds.
- Release the **Prog** button and press the **Prog** button briefly once again within 10 seconds.
The status LED flashes more slowly for approx. 5 seconds.
The hand-held transmitter is reset to default setting. Button (2) is set as channel button.

7 Disposal of batteries

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.

8 Technical data

Rated voltage	DC 3 V
Battery type	1×Lithium CR 2450N
Ambient temperature	-5 ... +45 °C

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Degree of protection	IP20
Dimensions L×W×H	55×40.5×15 mm
Radio frequency	868.0 ... 868.6 MHz
Transmission capacity	max. 20 mW
Transmitting range in free field	typ. 100 m
Receiver category	2

9 Parameter list

The device parameters can be changed with the eNet server:

Device configuration

Parameter name	Setting options, Basic setting	Explanations
Function	Button, Other modes, Unused Basic setting: Button	<p>Button The channel works as a channel button.</p> <p>Other modes The channel works as a scene button.</p> <p>Unused The channel is not displayed in the eNet SMART HOME app and is disabled for use in the commissioning interface.</p>
Operating mode	App use, lock-out protection, forced operation, wind alarm, sun protection, twilight Basic setting: App use	Setting the type of scene used for a scene button.

Advanced device settings

Parameter name	Setting options, Basic setting	Explanations
Manual commissioning	On, Off Basic setting: On	Disables manual commissioning for all device channels. Note: In the "Off" setting, the device cannot be reset to the factory setting.

Extended channel settings

Parameter name	Setting options, Basic setting	Explanations
Manual commissioning	On, Off Basic setting: On	Blocks manual commissioning for the device channel. Note: In the "Off" setting, the device cannot be reset to the factory setting.
Local Operation	On, Off Basic setting: On	Blocks the device channel for local operation.

10 Troubleshooting

After a button has been pressed, the status LED flashes red slowly for 3 seconds.

Cause: Battery in the hand-held transmitter is almost empty.

Changing the battery (see chapter Commissioning – Inserting the battery).

Receiver does not react, status LED displays a transmission error. Status LED flashes red quickly for 3 seconds.

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

Using a radio repeater.

Cause 2: Actuator is not ready for operation.

Check the actuator and mains voltage.

Cause 3: There are radio faults, e.g. through outside radio.

Eliminate radio interference.

i The actuator causing the transmission error can be removed from the display of transmission errors. To do this, briefly press the **Prog** button of the hand-held transmitter during signalling. The actuator is automatically taken into account again when it transmits a status message after radio transmission.

After a button has been pressed, the status LED flashes red quickly for 3 seconds.

Cause: Maximum permitted transmission period (statutory Duty Cycle Limit) has almost been reached. For the function of the transmitter to continue, the polling and display of the sum status will be switched off. As soon as sufficient transmission time is available again, the sum status will again be polled on button actuation.

Actuate the transmitter again after a short waiting time, normally a few seconds.

Reduce the number of actuations.

Reduce the number of actuators connected to the transmitter.

11 Conformity

Albrecht Jung GmbH & Co. KG hereby declares that the radio system type art. no. FMHS1T meets the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: www.jung.de/ce

12 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

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