

KNX RF radio transmitter module 1-gang

Art. No. : ..5071 RF TSM

KNX RF radio transmitter module 2-gang

Art. No. : ..5072 RF TSM

KNX RF radio transmitter module 3-gang

Art. No. : ..5073 RF TSM

KNX RF radio transmitter module 4-gang

Art. No. : ..5074 RF TSM

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.

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

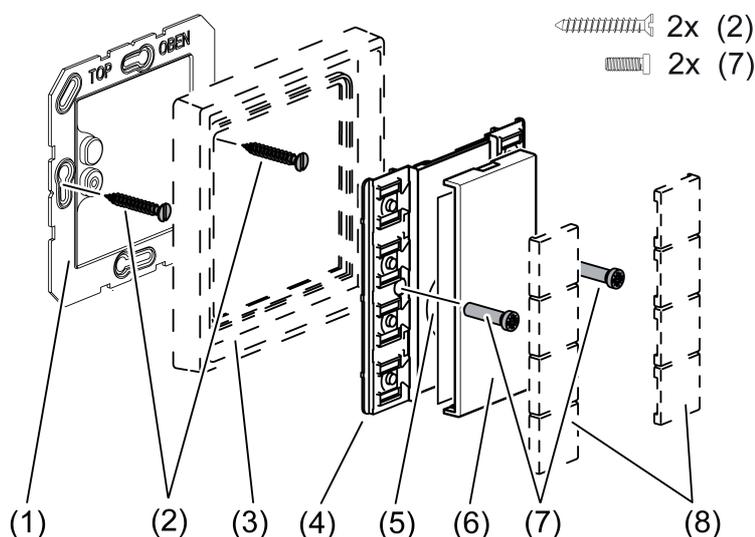


Figure 1: 4-gang radio wall transmitter module

- (1) Base plate
- (2) Fastening screws for the base plate
- (3) Design frame
- (4) Wall transmitter module
- (5) Battery compartment
- (6) Cover

- (7) Fastening screws
- (8) Cover kit

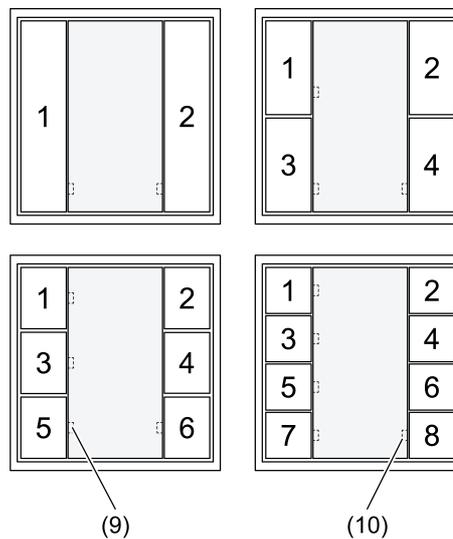


Figure 2: Button assignment of wall transmitter module 1-gang, 2-gang, 3-gang and 4-gang

- (9) Status LED per button pair, green
- (10) Acknowledgement/transmission LED, red

3 Function

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The range of a radio system depends on various external circumstances. The range can be optimised by the choice of installation location. The product documentation for this device contains application basics for the KNX radio system.

Planning, installation and commissioning are carried out with the aid of KNX-certified software of version ETS5 or higher. You can find the up-to-date product database, technical descriptions and Declaration of Conformity on our Internet site.

Intended use

- Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes.
- Operation in cabled KNX systems via media coupler (see chapter Accessories)

Product characteristics

- Pushbutton functions switching, dimming, Venetian blind control, value transmitter, scene recall
- One, two, three or four button pairs for pushbutton function or rocker function
- Status indicator via status LED
- Integrated temperature sensor
- Battery-powered device

Energy saving mode

The device switches to the energy saving mode after a preset time. In energy saving mode, the LEDs remains switched off. During operation, the energy saving mode is exited.

- i** Operations during energy saving mode are executed immediately.
- i** Cyclical transmission of temperature values reduces the lifespan of the battery.

4 Operation

Operating a function or load

- Switch: Short press on button.
- Dim: Long press on the button.
- Move Venetian blind: Long press on button.
- Stop or adjust Venetian blind: Short press on button.
- Call up light scene: Short press on button.
- Save light scene: Press button for longer than 5 seconds.
- Set value: Press button briefly.

LED function

Acknowledgement/transmission LED (10) lights up after pressing a button and goes out as soon as the feedback has been received from the actuator. After the acknowledgement/transmission LED (10) goes out, the status LED (9) displays the actuator feedback. The display duration can be changed by the programming or can be dispensed with entirely.

The acknowledgement/transmission LED (10) flashes rapidly if a transmission error occurs.

5 Information for electrically skilled persons

5.1 Mounting and electrical connection

Fitting the device

To ensure good transmission quality, keep a sufficient distance from any possible sources of interference, e.g. metallic surfaces, microwave ovens, hi-fi and TV systems, ballasts or transformers.

- Insert battery (see chapter Commissioning).
- Screw or glue the base plate (1) to an even surface. The **TOP/OBEN** label has to be at the top.
- Position the design frame (3) on the base plate.
- Screw wall transmitter module (4) to base plate.
- i** Screwing the screws (7) too tightly could impair functions of the wall transmitter.
- Snap on the buttons (8) (see Accessories).

Information on gluing mounting

To be able to fasten the wall transmitter safely, the substrate must be flat and free of dust and grease.

- Remove the rear, unpunched film of the enclosed adhesive pad.
- Align the adhesive pad, stick it to the surface and smooth it out. Remove air bubbles.
- Remove the two inner segments of the front film.
- Align the base plate to the external punching and stick it on.
- i** In the case of multiple combinations, the abutting sides of the adhesive pads must be cut along the external punching using a ruler and a cutter (figure 3).

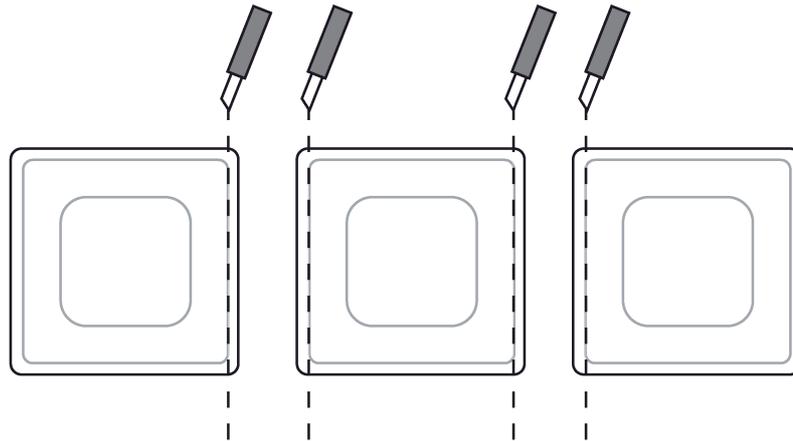


Figure 3: Cutting the adhesive pads for multiple combinations

- i** If necessary, after mounting the wall transmitter in the CD program, carefully remove the excess adhesive film in the corners.

5.2 Commissioning

Insert battery



WARNING!

Risk of chemical burns.

Batteries can burst and leak.

Replace batteries only with an identical or equivalent type.

- Carefully remove cover (6) from wall transmitter .
- i** Keep contacts of batteries and device free of grease.
- Apply the battery to the positive contact of the battery compartment (5). Observe polarity: the positive pole of the battery must be at the top.
- Press gently on battery to snap it in.
- Snap on the cover (6).

Loading the physical address and application software

Project design and commissioning with ETS5 or a more recent version.

The device is ready for operation.

- i** If the device does not contain any application software, or contains the wrong application software, then the acknowledgement/transmission LED (10) flashes slowly for approx. 3 seconds.

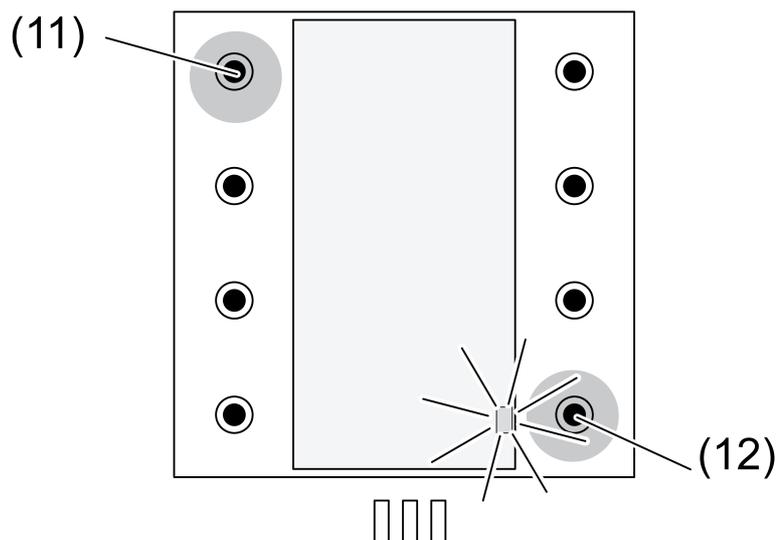


Figure 4: Activating programming mode

- Activate programming mode: Press and hold push-button at the upper left (11). Then press push-button at the lower right (12).
The acknowledgement/transmission LED (10) flashes rapidly.
 - Load the physical address and domain address into the device.
The acknowledgement/transmission LED (10) returns to its previous state – off, on, or flashing slowly.
 - Write the physical address and domain address on the device label.
 - Load the application software into the device.
- i** Before updating the system software or before a later correction of the programming, replace a battery with a new, unused battery.

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

KNX medium	RF1.R
Commissioning mode	S-mode
Rated voltage	DC 3 V
Battery type	1×Lithium CR 2450N
Ambient temperature	-5 ... +45 °C
Degree of protection	IP 20
Protection class	III
Radio frequency	868.0 ... 868.6 MHz
Transmission capacity	max. 20 mW
Transmitting range in free field	typ. 100 m
Receiver category	2

6.2 Troubleshooting

After a button-press, the actuation/transmission LED (10) flashes slowly for 3 seconds.

Cause: battery in the wall transmitter is almost empty.

Change the battery (see chapter Commissioning - Inserting the battery).

Receiver does not respond, actuation/transmission LED (10) flashes slowly for 3 seconds.

Cause: The wall transmitter cannot transmit the telegram, e.g. due to a missing group address.
Correct the programming.

Receiver does not react, actuator feedback is not displayed.

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

Use of the media coupler as a radio repeater.

Cause 2: Receiver or media coupler is not ready for operation.

Check the receiver, mains voltage or media coupler.

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

Eliminate radio interference.

6.3 Accessories

Cover kit 1-gang	Art. No. ..501TSA..
Cover kit 2-gang	Art. No. ..502TSA..
Cover kit 3-gang	Art. No. ..503TSA..
Cover kit 4-gang	Art. No. ..504TSA..
KNX RF radio converter	Art. No. MK100RF

6.4 Conformity

Albrecht Jung GmbH & Co. KG hereby declares that the radio system type Art. No. ..5071 RF TSM / ..5072 RF TSM / ..5073 RF TSM / ..5074 RF TSM corresponds to 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

6.5 Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law.

ALBRECHT JUNG GMBH & CO. KG

Volmestraße 1
58579 Schalksmühle
GERMANY

Telefon: +49 2355 806-0
Telefax: +49 2355 806-204
kundencenter@jung.de
www.jung.de