

**Wireless repeater intermediate plug**

Order No. : 5321 02

**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.

Adapter plugs may not be connected in series and must be easily accessible.

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.

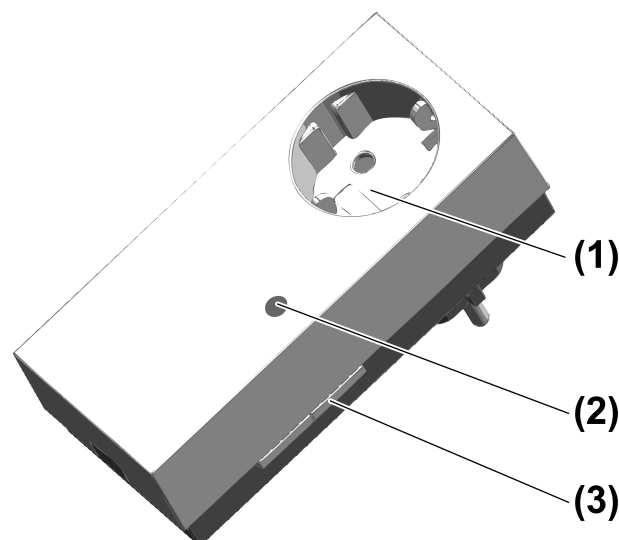
**2 Device components**

Figure 1: Repeater

- (1) SCHUKO® socket with increased contact protection
- (2) Red status LED, covered
- (3) Prog button

**3 Function****Intended use**

- Receiving and repeating eNet radio telegrams
- Extending the range of radio transmitters and actuators
- Indoor mounting in SCHUKO® socket or socket with ground pin

**Product characteristics**

- Fully encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Repeating of all received radio telegrams or only of selected radio transmitters and actuators
- 125 transmitters/actuators can be connected
- Two repeaters are cascable

- Signalling of telegram repetitions, status LED flashes for 50 ms
- With server: Disabling of manual commissioning

### Function

The repeater has two operating modes:

- Repeating of all received radio telegrams.  
No device may be connected to the repeater (as-delivered state)
- Repeating of the radio telegrams from selected devices.  
The respective devices must be connected to the repeater.

**i** A radio telegram is only repeated twice in order to restrict the number of telegrams in a system.

## 4 Information for electrically skilled persons

### 4.1 Fitting and electrical connection

#### Mounting

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 device into socket outlet.

### 4.2 Commissioning



#### **DANGER!**

**Electrical shock when live parts are touched.**

**Electrical shocks can be fatal.**

**Before working on the device, cover up live parts in the working environment.**

The repeater repeats all radio telegrams.

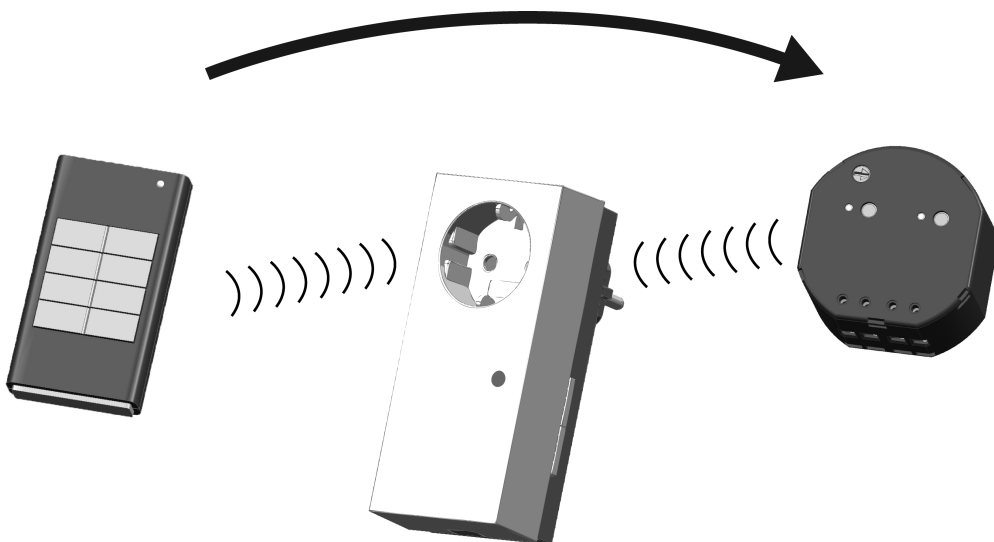


Figure 2: Direct connection of radio transmitter and actuator

The repeater is in the as-delivered state.

No commissioning of the repeater is necessary.

or

The repeater is connected to an eNet device.

- Disconnect all connections or reset repeater to default setting (see Disconnecting connection to a radio transmitter or actuator or Resetting repeater to default setting).
- ❗ Radio transmitters and actuators can be connected to each other as described in the instructions of the radio transmitters and actuators.

### The repeater only repeats radio telegrams from specific devices

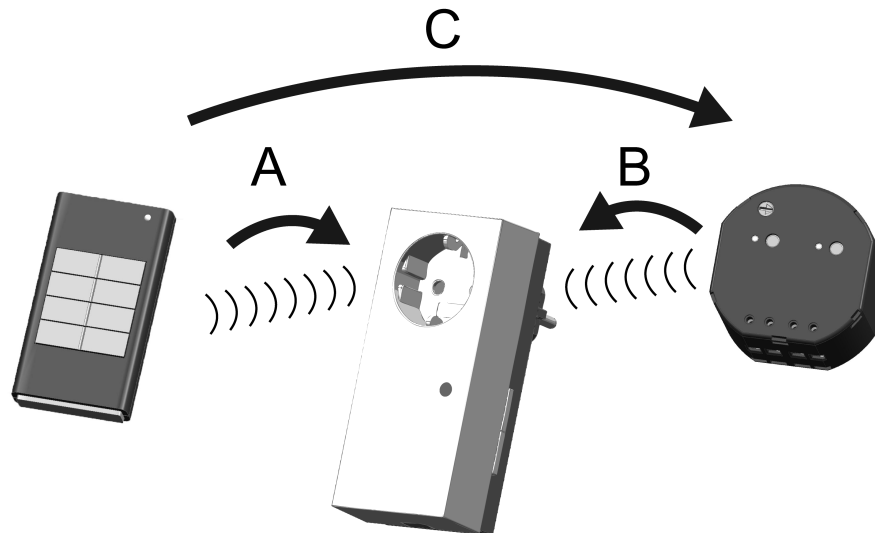


Figure 3: Multistage commissioning

If the repeater does not repeat all radio telegrams of a system, multistage commissioning takes place.

- **Step A**  
Connect repeater to radio transmitter (see Connecting repeater to radio transmitter).
- **Step B**  
Connect repeater to actuator (see Connecting repeater to actuator).
- **Step C**  
Connect radio transmitters and actuators to each other as described in the instructions of the radio transmitters and actuators.

### Two repeaters, switched in sequence, only repeat radio telegrams from certain devices

- ❗ If two repeaters are switched in sequence, then connect both the transmitter and the actuator/energy sensor with both repeaters. During the connection operation, the repeater and transmitter or actuator/energy sensor must be within radio range of one another.
- **Step A**  
Connect repeaters 1 and 2 to the radio transmitter (see Connecting repeater to radio transmitter).
- **Step B**  
Connect repeaters 1 and 2 to the actuator (see Connecting repeater to actuator).
- **Step C**  
Connect radio transmitters and actuators to each other as described in the instructions of the radio transmitters and actuators.

### Connecting repeater to radio transmitter

- Press button **Prog** (3) for longer than 4 seconds.  
The status LED (2) flashes after 4 seconds. The repeater is in programming mode for approx. 1 minute.
- Switch radio transmitter to programming mode (see radio transmitter instructions).
- Trigger telegram on the radio transmitter.  
The status LED (2) lights up for 5 seconds.

The repeater is connected to the radio transmitter. The repeater and radio transmitter exit the programming mode automatically.

- i** The telegrams of all function and scene buttons are repeated by multi-channel radio transmitters as soon as the first connection is established.

### Connecting repeater to actuator or energy sensor

- Press button **Prog** (3) for longer than 4 seconds.  
The status LED (2) flashes after 4 seconds. The repeater is in programming mode for approx. 1 minute.
- Switch the actuator/energy sensor to programming mode (see actuator/energy sensor instructions).
- Briefly press **Prog** button on the repeater to trigger a telegram.  
The status LED (2) lights up for 5 seconds.  
The repeater is connected to the actuator/energy sensor. The repeater and actuator/energy sensor exit the programming mode automatically.
- i** The feedback telegrams of all channels are repeated by multi-channel actuators as soon as the first connection is established.

### Disconnecting connection to a radio transmitter

- i** All the connections to a radio transmitter are disconnected.
- Carry out the same steps as when connecting (see Connecting repeater to radio transmitter).  
The status LED (2) flashes quickly for 5 seconds. The repeater is disconnected from the radio transmitter. The repeater and radio transmitter exit the programming mode automatically.

### Disconnecting connection to an actuator or energy sensor

- i** All the connections to an actuator or energy sensor are disconnected.
- Carry out the same steps as when connecting (see Connecting repeater to actuator or energy sensor).  
The status LED (2) of the repeater and the status LED on the actuator or energy sensor light up for 5 seconds. The repeater is disconnected from the actuator or energy sensor. The repeater and actuator/energy sensor exit the programming mode automatically.

### Resetting repeater to the default setting

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

- i** The connections in the transmitters and actuators are preserved and must be deleted separately.
- Press the **Prog** button for at least 20 seconds.  
The status LED flashes after 4 seconds. After 20 seconds the status LED flashes faster.
- Release **Prog** button and press briefly once again within 10 seconds.  
The status LED flashes more slowly for approx. 5 seconds.  
The repeater is reset to default setting.  
The repeater repeats all received radio telegrams.

## 5 Appendix

### 5.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Rated load current	16 A (I <sub>L</sub> )
Degree of protection	IP 20
Ambient temperature	-5 ... +45 °C
Dimensions W×H×D	57×127×78 mm

Radio frequency	868.0 ... 868.6 MHz
Transmitting range in free field	typ. 100 m
Transmission capacity	max. 20 mW
Receiver category	2

## 5.2 Troubleshooting

### **Additional connections to transmitters or actuators are not possible.**

Cause: All the memory locations in the repeater are occupied.

Disconnect connections no longer required.

or

Reset repeater to the default setting so that all received telegrams are repeated.

### **Despite a repeater there is no radio reception.**

Cause 1: Structural conditions prevent radio reception.

Change the position of the repeater.

Cause 2: The repeater only repeats selected telegrams.

Connect radio transmitter and actuator to repeater.

Cause 3: Repeater is not supplied with voltage.

Check power supply.

Cause 4: Two repeaters are switched in sequence. The transmitter and actuator/energy sensor are not connected to both repeaters.

Connect both the transmitter and the actuator/energy sensor with both repeaters.

### **Radio transmitter does not receive any feedback from the actuator**

Cause: Only the radio transmitter is connected to the repeater.

Connect actuator to repeater.

## 5.3 Conformity

Gira Giersiepen GmbH & Co. KG hereby declares that the radio system type

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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.gira.de/konformitaet](http://www.gira.de/konformitaet)

## 5.4 Warranty

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

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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