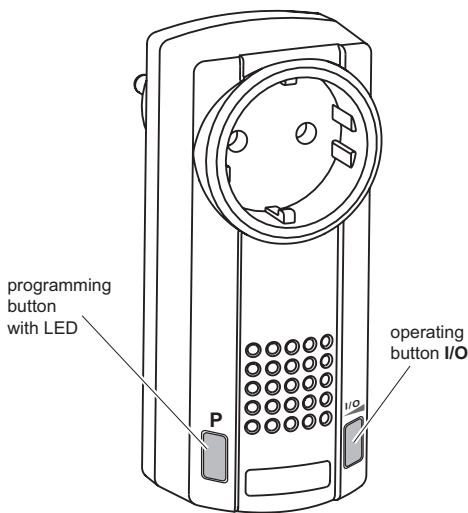


Model



RCP14E5001-01

Technical Details

Frequency:	868.30 MHz
Modulation:	FSK
Coding:	Easywave
Voltage supply:	230 V AC 50 Hz
Power consumption:	0.7 W stand by
Rated current:	1.1 A
Connected load:	
resistive load	7 W to 250 W
inductive load	20 VA to 250 VA
LED+ESL	7 W to 100 W
Operating temperature:	for dry rooms only, -20 °C to +35 °C
Protective class:	IP20
Dimensions (w/l/h):	50/120/75 mm
Weight:	158 g

Scope of Delivery

Power Plug Radio Dimmer RCP14,
operating manual

Intended Use

This device may only be used as a dimmer for switching and dimming lights of up to max. 250 W. It is operated using Easywave wireless transmitters or external controllers.

The manufacturer will not be liable for damage caused by improper or inappropriate use.

Safety Advice

Please read this instruction manual carefully before commissioning the device!

This device must not be used to switch or regulate electric motors.

This device must not be connected to the mains via an isolation transformer.

The mains connection of the building installation must be fuse-protected in accordance with valid regulations.

We do not accept any liability for personal injury or damage to property caused by incorrect handling or non-observance of the safety instructions!

Observe the valid laws, standards and regulations as well as the manufacturer's instructions regarding the devices to be controlled!

Attention! Observe the admissible supply voltage and the maximum contact load of the wall outlet (16 A, 230 V AC / 50 Hz)!

Do not plug one Plug-In Radio Dimmer into another.

The Plug-In Radio Dimmer is only de-energized when it is disconnected from the mains supply.

The Plug-In Radio Dimmer must be easily accessible.

Have malfunctioning devices checked by the manufacturer!

Do not open the appliance's casing!

Do not modify the device!

Function

The RCP14 enables consumers of electricity to be wirelessly dimmed or switched.

An Easywave transmitter paired with the dimmer (one-button or two-button operation) enables soft switching of illuminants.

It is possible to pair up to a total of 32 transmitters. With the button I/O can be dimmed or switched directly on the device.

An electronic short-circuit and overload safety device and an overheat safety device provide optimum safety.

There are three modes available to select from for the use of the dimmer:

- Dimming with memory function, i.e. the most recently selected brightness is stored, and then next time it is switched on, the lamp is lit at the same brightness again.
- Dimming without memory function involves simple brightening and dimming without any storage of brightness values.
- The setting of fixed brightness values is suitable for the creation of personalised lighting profiles.

The following settings have been programmed in as factory settings:

- Dimming mode: Leading edge,
- Operating button I/O in mode „Dimming without memory function“ with 1-button operation,
- Memory value: max. brightness.

Start-up

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D Troubleshooting	4
E Allgemeine Hinweise	4

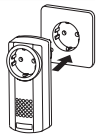
A Install the Dimmer

A1 Selecting a location

Ensure an interference-free wireless connection. Avoid mounting at the following locations: in the immediate vicinity of large metal objects on the ground (or near it), because this will affect the range.

A2 Electrical connection

1. Plug the call detector into a properly functioning earthed outlet.
2. Teach the coding of the transmitter into the dimmer.



When connecting halogen transformers or Tronic transformers in parallel, only devices of identical type may be used and the maximum load must not be exceeded.

It is not permitted to connect the following loads:

- Transformer halogen lamps and Tronic halogen lamps,
- Transformer halogen lamps and ESL/LED lamps.

In these cases, a separate dimmer must be used for each load.

A3 Setting dimming mode

Depending on the type of consuming device to be connected, the dimming mode is set as follows:

1. Hold down the P button on the dimmer (for around 10 seconds) until the LED alternately flashes yellow and blue. Once the button is released, the current dimming mode will be displayed.
2. Press the P button again until the LED lights up in the colour of the desired dimming mode:



blue TRAILING edge



yellow LEADING edge



violet Dimmable energy-saving bulbs (ESL)

3. Finally, press and hold P button until the LED goes out. The dimming mode has been saved.

TRAILING edge



Resistive and capacitive loads

Incandescent bulbs, high-voltage halogen lamps, electronic ballast devices for low-voltage halogen lamps, dimmable LED lamps (also for mixed loads such as incandescent bulbs with Tronic halogen lamps and incandescent bulbs with ESL/LED lamps)



Dimmable energy-saving bulbs (ESL)

The brightness upon activation is set to around 50% of the dimming curve, a later reduction in brightness is also possible.

LEADING edge



Resistive and inductive loads

Incandescent bulbs, High-voltage halogen lamps, Dimmable LED lamps (observe manufacturer specifications!), Wound transformers for low-voltage halogen lamps (also for mixed loads such as incandescent bulbs with Tronic halogen lamps)

B Using the dimmer

B1 Operating modes

The operating mode can be selected using the dimmer by pressing the P programming button several times until the LED flashes in the rhythm of the desired mode (see item C, „Programming“). Once a sender is paired, the selected mode is allocated to the transmitter buttons.

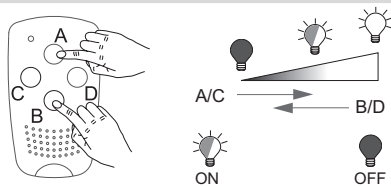
Each transmitter button sends an Easywave code A, B, C or D.

With two-button operation, the buttons A and C brighten or activate, while transmitter buttons B and D dim or switch off. Only one button needs to be paired; the code for the second button will be allocated automatically.

With one-button operation, each button can be used for dimming or brightening and for switching on and off.

Finally, the dimmer must be made ready for operation. To do this, the P programming button must be pressed several times until the LED on the dimmer ceases to blink.

2-button dimming with memory



The most recently stored brightness is stored when switching off. Dimming or switching using two-button operation.

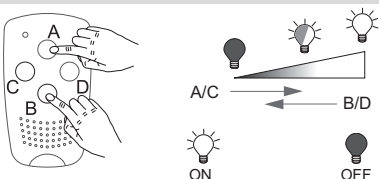
Brighten: Hold down transmitter button A or C until the desired brightness is reached.

Dim: Hold down transmitter button B or D until the desired brightness is reached

Switching ON to the stored brightness: Press and release transmitter button A or C quickly. If the lighting was switched off by means of dimming, it will be switched on to a discreet brightness (does not apply to energy-saving lamps).

Switching OFF: Press and release transmitter button B or D quickly.

2-button dimming w/o memory



Brightening or dimming w/o stored the last brightness. Dimming or switching using two-button operation.

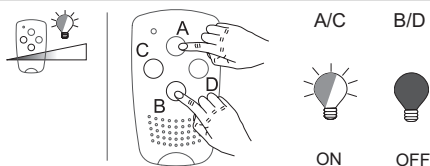
Brighten: Hold down transmitter button A or C until the desired brightness is reached.

Dim: Hold down transmitter button B or D until the desired brightness is reached.

Switching ON: Press and release transmitter button A or C quickly. The lighting will be switched to full brightness.

Switching OFF: Press and release transmitter button B or D quickly.

2-button switching between fixed brightness values



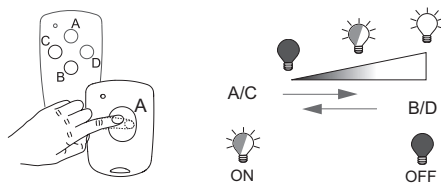
Activation of personalised lighting profiles using two-button operation. The desired brightness can be set specifically using a transmitter.

Dimming is not possible.

Switching ON: Press and release transmitter button A or C quickly. The lighting will be switched to the stored brightness.

Switching OFF: Press and release transmitter button B or D.

1-button dimming with memory

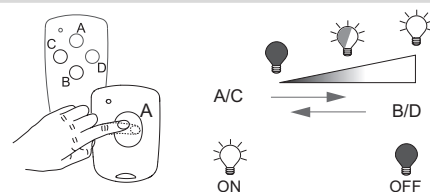


The most recently stored brightness is stored when switching off. Dimming or switching using one-button operation.

Brightening or dimming: Hold down the transmitter button. When the brightness limit has been reached, briefly release the button and then hold again to dim.

Switching ON or OFF to the stored brightness: Press and release the transmitter button quickly.

1-button dimming w/o memory



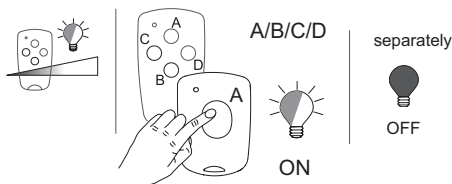
Brightening or dimming w/o stored the last brightness. Dimming or switching using one-button operation.

Brightening or dimming: Hold down the transmitter button. When the brightness limit has been reached, briefly release the button and then hold again to dim.

Switching ON: Press and release transmitter button quickly. The lighting will be switched to full brightness.

Switching OFF: Press and release transmitter button quickly.

1-button switching between fixed brightness values



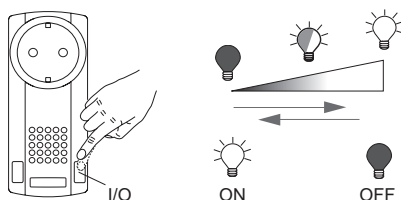
Activation of personalised lighting profiles using one-button operation. The desired brightness can be set specifically using a transmitter.

Dimming is not possible.

Switching ON to the stored brightness: Press and release the transmitter button quickly.

Switching OFF: The lighting will be switched through a separate transmitter or transmitter code.

1-button dimming by means of button I/O



The button I/O enables the dimmer to be operated by means of the one-button operation.

Brightening or dimming: Hold down the button. When the brightness limit has been reached, briefly release the button and then hold again to dim.

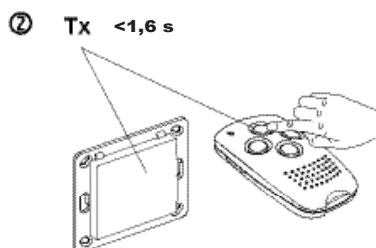
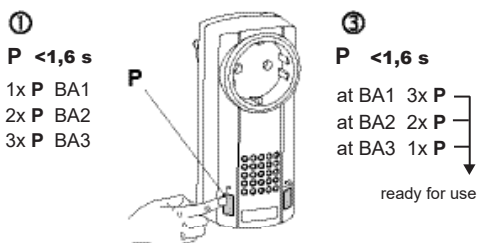
Switching ON: Press and release the button quickly. The lighting will be switched to full brightness.

Switching OFF: Press and release the button quickly.

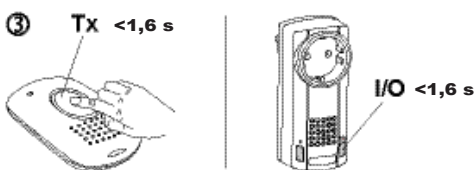
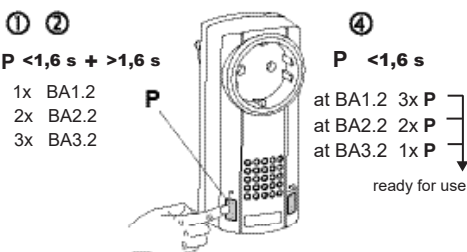
C Programming

C1 Memorizing transmitter w/o learning button

2-button operation



1-button operation



- P** programming button dimmer
I/O operating button
Tx transmitter button
short Press the button for less than 1.6 s
long Press the button for longer than 1.6 s
Attention! Press the button not longer than 10 s. Otherwise, the unit switches in the „Setting dimming mode“.

Press button ¹⁾	Display	Remark
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Two-button dimming with memory (BA1)

① P	1x short	LED flashes (1x break 1x ...)	operating mode BA1
② Tx	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾
③ P	3x short	LED goes out	dimmer is ready for use

Two-button dimming w/o memory (BA2)

① P	2x short	LED flashes (2x break 2x ...)	operating mode BA2
② Tx	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾
③ P	2x short	LED goes out	dimmer is ready for use

Two-button switching between fixed brightness values (BA3)

! Dim the lights first in a different mode to the desired brightness and keep the light burning.

① P	3x short	LED flashes (3x break 3x ...)	operating mode BA3
② Tx	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾ and brightness stored
③ P	1x short	LED goes out	dimmer is ready for use

One-button dimming with memory (BA1.2)

① P	1x short	LED flashes (1x break 1x ...)	operating mode BA1
② P	1x long	LED briefly lights red	dimmer in the operating mode BA1.2
③ Tx or I/O	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾
④ P	3x short	LED goes out	dimmer is ready for use

One-button dimming w/o memory (BA2.2)

① P	2x short	LED flashes (2x break 2x ...)	operating mode BA2
② P	1x long	LED briefly lights red	dimmer in the operating mode BA2.2
③ Tx or I/O	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾
④ P	2x short	LED goes out	dimmer is ready for use

One-button switching between fixed brightness values (BA3.2)

! Dim the lights first in a different mode to the desired brightness and keep the light burning.

① P	3x short	LED flashes (3x break 3x ...)	operating mode BA3
② P	1x long	LED briefly lights red	dimmer in the operating mode BA3.2
③ Tx or I/O	1x short	LED flashes ²⁾ after 4 s	transmitter memorized ³⁾ and brightness stored
④ P	1x short	LED goes out	dimmer is ready for use

C2 Deleting transmitters without learning button

This mode enables individual transmitters to be specifically cleared from the dimmer memory.

Press button ¹⁾	Display	Remark	
1. P	1x long	LED flashes quickly in the colour of the configured dimming mode	dimmer in the deleting mode
2. Tx	1x short	LED lights for 4 s	transmitter deleted
3. P	1x short		dimmer is ready for use

C3 RESET

A RESET can only be performed directly on the dimmer, not via the wireless interface.

All paired transmitters are deleted and the factory settings are restored:

- Dimming mode: Leading edge,
- Operating button I/O in mode „Dimming without memory function“ with single-button operation,
- Memory value: max. brightness.

Press button ¹⁾	Display	Remark	
1. P	1x long	LED flashes quickly in the colour of the configured dimming mode	dimmer in the deleting mode
2. P	1x long	LED lights for 4 s	factory settings are restored

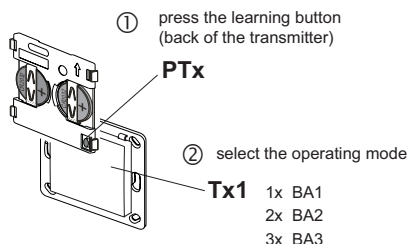
- 1) If no button is pressed within 20 seconds, the dimmer will automatically enter a state of operational readiness. The configuration is not stored.
- 2) If the LED lights red, an attempt is being made to pair an existing transmitter. Clear the paired transmitter.
- 3) If the operating mode programmed for the transmitter has to be changed, the transmission code must be deleted first and then re-memorized with the new operating mode.

C Programming

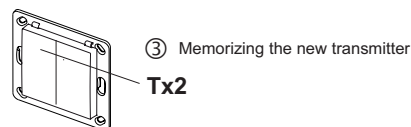
C4 Memorizing transmitter with learning button

If the settings of the dimmer also be changed in the installed state, a learning transmitter must be programmed before to installation (see chapter C1).

learning transmitter



new transmitter



- PTx** learning button
- Tx1** transmitter button of the learning transmitter
- Tx2** transmitter button of the to memorized transmitter

Press button ¹⁾	Display	Remark
Two-button dimming with memory (BA1)		
① PTx short	transmitter LED flashes red	 dimmer in the learning mode BA1
② within 5 s Tx1 1x short	lighting flashes according to operating mode	
③ Tx2 short	lighting lights for 4 s	
Two-button dimming without memory (BA2)		
① PTx short	transmitter LED flashes red	 dimmer in the learning modes BA2
② within 5 s Tx1 2x short	lighting flashes according to operating mode	
③ Tx2 short	lighting lights for 4 s	
Two-button switching between fixed brightness valuesn (BA3)		
① PTx short	transmitter LED flashes red	 dimmer in the learning mode BA3
② within 5 s Tx1 3x short	lighting flashes according to operating mode	
③ Tx2 short	lighting lights for 4 s	

C5 Deleting transmitters with learning button

In order to ensure constant access to the dimmer, the last learning transmitter is always memorized. A learning transmitter used to delete can't be deleted.

Press button ¹⁾	Display	Remark
1. PTx short	transmitter LED flashes	Attention! Release the transmitter button after 5 s! dimmer in the deleting mode
2. within 5 s Tx1 long (>5 s)	lighting flashes rapidly, full brightness	
3. Tx2 short	lighting lights for 4 s	

- 1) If no button is pressed within 10 seconds, the dimmer will automatically enter a state of operational readiness. The configuration is not stored.
- 2) If the operating mode programmed for the transmitter has to be changed, the transmission code must be deleted first and then re-memorized with the new operating mode.

D Troubleshooting

Display	Problem	Solution
LED flashes RED slowly or Lighting can't be switched	An inductive load has been recognised in trailing edge mode.	Hold down the P button on the dimmer while the LED is flashes until the LED alternately flashes yellow and blue. Then select the correct dimming mode as per item A3.2.
LED flashes RED rapidly	The load current is too high.	The dimmer will automatically reduce the brightness step by step. Reduce illuminant output!
LED lights RED or Lighting can't be switched	Short circuit on the consuming device	Shut off the power supply, eliminate short circuit, reactivate power supply.
LED flashes RED rhythmically 	Temperature increase in housing	At 80°C, the device will automatically dim to 50% of the configured dimming value. From 85°C, the load will automatically be shut off. Manually shut off load / reduce illuminant output! The flashing will stop once the temperature has dropped to below 80°C again.

E General Information

Disposal

Waste electrical products should not be disposed of with household waste!

Dispose of the waste product via a collection point for electronic scrap or via your specialist dealer.



Put the packaging material into the recycling bins for cardboard, paper and plastics.



Warranty

We will remedy defects on the device based on material or production errors within the statutory warranty period or exchange the device.

Any unauthorized tampering with, or modifications to, the product shall render this warranty null and void.

Conformity

Hereby, ELDAT GmbH declares that the radio equipment type RCP14 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.eldat.de



Customer Service

If the device does not work properly despite proper handling or in case of damage, please contact the manufacturer or your retailer.

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