

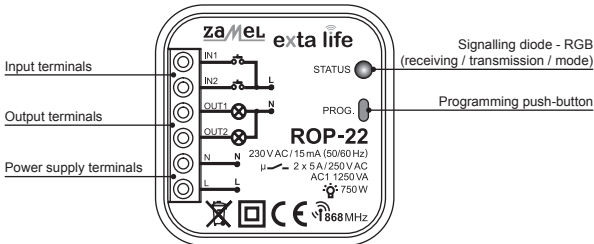
DESCRIPTION

Radio flush receiver ROP-22 is the final element of the EXTA LIFE system, which allows for an independent control of two devices / 230 V AC circuits. It is especially dedicated to control lighting fittings equipped with incandescent and halogen lamps, LEDs and CFL lamps. This receiver cooperates also with light sources powered by toroidal and electronic transformers. Due to its two independent outputs, it cooperates with two-section lighting or it controls independently two lighting circuits. The current mode of a receiver is always shown in a mobile application due to a two-way communication between a receiver and a controller. This method of communication allows for changing the adjusted parameters of a receiver and adding transmitters remotely (without a physical access to a receiver). Implemented frame encoding algorithm ensures control security. ROP-22, apart from a controller, can be simultaneously operated by the EXTA LIFE system transmitters. A larger number of transmitters can be added to a receiver which, in turns, enables an independent control from several places. The device is designed for (surface and flush) junction box installation. By means of a controller the additional configured wired inputs increase the control functionality. The receiver has also an implemented function of a remote software update by means of the controller.

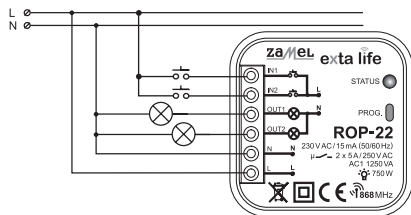
FEATURES

- nominal supply voltage 230 V AC,
- compatible with a controller and EXTA LIFE system transmitters,
- 2 output channels (230 V AC outputs),
- two-way transmission – current output mode indication in the application,
- programmable output mode after power supply is switched on,
- 2 programmable external inputs,
- connection possibility of monostable or bistable switches,
- 4 operation modes in cooperation with transmitters (switch on / switch off, bistable, monostable, time),
- 2 operation modes in cooperation with a controller (switch on / switch off, time)
- independent time for radio transmitters, a controller and an external input,
- independent time for each output,
- possibility of remote software update,
- dedicated to control lighting circuits,
- mounting in Ø60 mm junction box.

APPEARANCE



CONNECTION



FUNCTIONALITY

- The ROP-22 receiver can be simultaneously controlled by:
 - EXTA LIFE system transmitters (switch on / switch off, bistable, monostable, time),
 - EXTA LIFE mobile application, after pairing with a controller (switch on / switch off and time modes)
 - IN1, IN2 external inputs (operating mode depends on a switch type – see Functionality of inputs).
- Current receiver's output mode is shown in the mobile application.
- It is possible to assign a larger number of push-buttons of EXTA LIFE transmitters to one receiver (channel) – maximum 96 pairs (e.g. 24 transmitters in the switch on/switch off mode).
- Transmitters' push-buttons can be assigned to a receiver "locally" by means of a mobile application.
- Few transmitters can cooperate with one transmitter – **it is recommended that a transmitter is assigned to each receiver in the switch on / switch off mode.**
- A receiver can be paired only with one EXTA LIFE controller. After pairing the receiver is not visible for other controllers.
- Push-buttons added to a receiver's memory can be selectively deleted.
- There is a possibility to delete simultaneously all push-buttons added to a receiver's memory (reset to default settings).
- Basic ROP-22 parameters are configured by means of a mobile application.
10. Parameters are independently configured for OUT1 and OUT2 outputs.
11. A remote software update of a receiver is also possible due to a mobile application (the EXTA LIFE controller must be connected to the Internet).

DEFAULT SETTINGS

Parameter	Default settings	Configuration possibilities
OUT1, OUT2 modes after power supply has been applied	• switched off	• yes – mobile application
input types: IN1, IN2	• cooperation with monostable (push-buttons) switches	• yes – mobile application
IN1, IN2 input operation mode	• bistable	• yes – mobile application
default time for output OUT1, OUT2*	• 10 s	• yes – mobile application • PROG push-button

*refers to push-buttons assigned to a receiver in time mode

OPERATION MODES

Switch on / switch off mode

- In the switch on / switch off mode two push-buttons of a transmitter are used. One push-button always realises the "switch on" function and the second one the "switch off" function.

CAUTION! This mode is used to control a larger number of receivers by means of one transmitter.

Bistable mode

- In the bistable mode only one push-button of a transmitter is used to control a receiver. The same push-button realises the "switch on" and "switch off" function. Output control is realised as a cyclical change of one mode by subsequent pressing the transmitter's button. The bistable mode allows for an independent control of a larger number of receivers by means of one transmitter. For example, by means of 4 push-button remote control P-457/4, an independent control of 4 circuits is possible.

CAUTION! It is not recommended that one push-button in a bistable mode is assigned to more than one receiver. It can have output mode jitter effect during control.

Monostable mode

- In the monostable mode, only one push-button of a transmitter is used to control a receiver.
- A receiver's output is switched on as long as the transmitter's push-button is pressed.

Time mode

- In time mode only one push-button of a transmitter is used to control a receiver.
- A receiver's output is switched on after a transmitter's push-button is pressed, and it switches off automatically after the adjusted time is over. Pressing a transmitter's push-button during time measurement causes the receiver's output is switched off earlier (system without time retrigger). The switching on time is programmed in the range from 1 sec. to 18 hrs. In case of ROP-22, it is possible to adjust an independent time for each push-button programmed in time mode, for local inputs and for control by means of an application.

Switch on mode

- This mode is available only by means of switches connected to IN1/IN2 inputs. In this mode, it is only possible to switch on a receiver's output.

Switch off mode

- This mode is available only by means of switches connected to IN1/IN2 inputs. In this mode, it is only possible to switch off a receiver's output.

Operation mode	EXTA LIFE transmitters	EXTA LIFE application	Monostable switch	Bistable switch
Switch on/switch off mode	+	+(default)	+	+
Bistable mode	+	-	+(default)	+
Monostable mode	+	-	+	-
Time mode	+	+	+	+
Switch on mode	-	-	+	+
Switch off mode	-	-	+	+

In case of EXTA LIFE radio transmitters, the operation mode is carried out by adding transmitter's push-buttons to a receiver. In other cases, the operation mode is configured by means of the EXTA LIFE application.

PROGRAMMING EXTA LIFE TRANSMITTERS

- "STATUS" LED signals the programming procedure is ongoing.
- Operation related to the first output (OUT-1) is signalled by a switched on blue LED and to the second output (OUT-2) by a red LED.
- Receiving / transmission is signalled by a short flashing of the green STATUS LED.
- Successful completion of a particular operation is signalled by a flashing (several times) orange STATUS LED.

CAUTION! In ROP-22 receiver, the programmed operating modes are overwritten. If a selected transmitter's push-button was assigned to a given output of a receiver in a bistable mode, then to add the same push-button to this channel but in a different mode (e.g. time mode), we do not need to delete this push-button from the receiver's memory. Time mode replaces bistable mode immediately. The exception includes a situation where, e.g., push-button "4" of a transmitter is assigned to output 1 in a bistable mode, and push-button "2" is in the same mode, but assigned to output "2". To assign push-buttons 1 and 2 to the same transmitter to output 1 in the switch on / switch off mode, it is necessary to delete push-button 2 from output 2 first. It can refer to different configurations not included in this manual.

- A receiver realizes only functions of those push-buttons that were added to it during programming. It is possible to assign many push-buttons to one receiver in subsequent iterations of the programming procedure (up to 96 pairs).
- In the EXTA LIFE system selected push-buttons of a transmitter are programmed with a receiver. It gives a huge flexibility during the programming procedure. For example, push-buttons of a 4 push-button remote control P-457/4 can be programmed in the following way:

Push-button number	Operating mode	Receiver's reaction
1	bistable – output 1	OUT-1 output control
2	bistable – output 2	OUT-2 output control
3, 4	switch on/switch off – output 1 and 2	3 – switching on outputs (OUT-1 and OUT-2) 4 – switching off outputs (OUT-1 and OUT-2)

- The same push-buttons can be simultaneously programmed to other receivers. In this case, taking into account operation certainty and correctness, the switch on/switch off mode is recommended. In case of other operation modes, the jitter effect of receivers may occur.
- Push-buttons can be programmed directly in a receiver by means of the PROG. push-button (an access to a receiver is required) or remotely (without an access to a receiver) by means of the EXTA LIFE mobile application.

DIRECT PROGRAMMING BY MEANS OF PROG. PUSH-BUTTON

- To assign radio transmitters directly to a receiver, use the receiver's PROG. push-button.

Programming push-buttons to channel one (OUT-1)

e.g. 2 push-button remote control P-457/2

Switch on – switch off mode

1. Press the PROG. push-button shortly (1sec). in a receiver – STATUS LED switches on green.
2. In < 5 sec. press the button that should realise the "switch on" function (for example "1").
3. STATUS LED switches off and switches on blue again.
4. In < 5 sec. press the button that should realise the "switch off" function (for example "2").
5. The STATUS LED flashes orange to signal the push-buttons have been assigned correctly.

Bistable mode

1. Press the PROG. push-button shortly (1sec). in a receiver – STATUS LED switches on blue.
2. In < 5 sec. press the button that should be added in a bistable mode (for example "1").
3. STATUS LED switches off and switches on blue again.
4. In < 5 sec release the button that should be assigned in the bistable mode (for example "1").
5. The STATUS LED flashes orange to signal the push-button has been assigned correctly.

Monostable mode

1. Press the button that should be added in a monostable mode (for example "1").
2. Keep the transmitter's push-button pressed and press the PROG. push-button shortly (1sec). in a receiver – STATUS LED switches on blue.
3. In < 5 sec. release the transmitter's button that should be assigned in the monostable mode.
4. STATUS LED switches off and switches on blue again.
5. In < 5 sec. press again shortly this push-button that should be assigned in the monostable mode.
6. The STATUS LED flashes orange to signal the push-button has been assigned correctly.

Time mode

Step 1: Pairing a selected push-button with a receiver

1. Press the PROG. push-button shortly (1sec). in a receiver – STATUS LED switches on blue.
2. In < 5 sec. press the button that should be assigned in time mode (for example "1").
3. STATUS LED switches off and switches on blue again.
4. In < 5 sec. press shortly this push-button that should be assigned in time mode (for example "1").
5. The STATUS LED flashes orange (several times, quickly) to signal the push-button has been assigned correctly.

After the selected push-button of a transmitter has been paired with a given channel of ROP-22, the default time of this push-button will be 10 seconds. To change it, carry out the time programming procedure (Step 2). In case of ROP-22, an individual time can be assigned to each push-button added to its memory. Time is programmed in the range from 1 second to 18 hours.

Step 2: Programming time assigned to a selected push-button in time mode

1. Press the PROG. push-button shortly (1sec.) in a receiver – STATUS LED switches on blue.
2. Wait for about 5 seconds till STATUS LED switches on red.
3. Wait again for about 5 seconds till STATUS LED switches off.
4. After the LED is switched off, in < 5 sec. press shortly the transmitter's push-button that is assigned to channel 1 in time mode, and that we want to programme time for.
5. The STATUS LED starts flashing blue – it means time is measured.
6. After the time we want to assign to a selected push-button is finished, press shortly the selected push-button again.
7. The STATUS LED flashes orange to signal time has been programmed correctly.

Time assigned to a particular push-button can be changed only by repeating the programming procedure.

Programming push-buttons to channel two (OUT-2)

e.g. 2 push-button remote control P-457/2

Switch on – switch off mode

1. Press the PROG. push-button shortly (1sec.) in a receiver – STATUS LED switches on blue.
2. Wait for about 5 seconds till STATUS LED switches on red.
3. In < 5 sec. press the push-button shortly that should realize the "switch on" function (for example "1").
4. STATUS LED switches off and switches on red again.
5. In < 5 sec. press shortly the button that should realize the "switch off" function (for example "2").
6. The STATUS LED flashes orange to signal the push-buttons have been assigned correctly.

Bistable mode

1. Press the PROG. push-button shortly (1s). in a receiver –STATUS LED switches on blue.
2. Wait for about 5 seconds till STATUS LED switches on red.
3. In < 5 sec. press the button that should be added in a bistable mode (for example "1").
4. STATUS LED switches off and switches on red again.
5. In < 5 sec. release the button that should be assigned in the bistable mode (for example "1").
6. The STATUS LED flashes orange to signal the push-button has been assigned correctly.

Monostable mode

1. Press the button that should be added in a monostable mode (for example "1").
2. Keep the transmitter's push-button pressed and press the PROG. push-button shortly (1sec.) in a receiver –STATUS LED switches on blue.
3. Wait for about 5 seconds till STATUS LED switches on red.
4. In < 5 sec. release the transmitter's button that should be assigned in the monostable mode.
5. STATUS LED switches off and switches on red again.
6. In < 5 sec. press again shortly this push-button that should be assigned in the monostable mode.
7. The STATUS LED flashes orange to signal the push-button has been assigned correctly.

TIME MODE

Step 1: Pairing a selected push-button with a receiver

1. Press the PROG. push-button shortly (1sec.) in a receiver –STATUS LED switches on blue.
2. Wait for about 5 seconds till STATUS LED switches on red.
3. In < 5 sec. press shortly the button that should be assigned in time mode (for example "1").
4. STATUS LED switches off and switches on red again.
5. In < 5 sec. press shortly this push-button that should be assigned in time mode (for example "1").
6. The STATUS LED flashes orange (several times, quickly) to signal the push-button has been assigned correctly.

After the selected push-button of a transmitter has been assigned to the second channel of ROP-22 in time mode, then the default time of this push-button will be 10 seconds. To change it, carry out the time programming procedure (Step_2). In case of ROP-22, an individual time can be assigned to each push-button paired with the second output (OUT-2). Time is programmed in the range from 1 second to 18 hours.

Step 2: Programming time assigned to a selected push-button in time mode

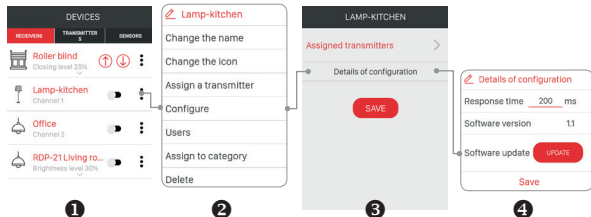
1. Press the PROG. push-button shortly (1sec.) in a receiver – STATUS LED switches on blue.
2. Wait for about 5 seconds till STATUS LED switches on red.
3. Wait again for about 5 seconds till STATUS LED switches off.
4. Wait again for about 5 seconds till STATUS LED flashes blue several times.

5. After the LED is switched off, in < 5 sec. press shortly the transmitter's push-button that is assigned to channel 2 in time mode, and that we want to programme time for.
6. The STATUS LED starts flashing red – it means time is measured for channel 2 (OUT-2).
7. After the time we want to assign to a selected push-button is finished, press shortly the transmitter's push-button again.
8. The STATUS LED flashes orange to signal time has been programmed correctly.

Time assigned to a particular push-button can be changed only by repeating the programming procedure.

REMOTE SOFTWARE UPDATE

- ROP-22 receiver is equipped with a built-in bootloader, which allows for a remote software change by means of the EXTA LIFE application. Software update is possible only in case of receivers paired with a controller and can be realized only by an authorised user (an administrator). It is required to connect the EXTA LIFE controller to the Internet to carry out the update.
- The current ROP-22 software update is displayed in the "Configuration details" tab. The 'Update' push-button is backlit, in case there is a new software version. By pressing this push-button, information is sent to a controller, which enters the receiver into the software update mode. The latest software is sent to a receiver by means of a controller. If the update has been completed successfully, such a message is sent to a controller from a receiver and, additionally, it is signalled in the mobile application. The update can be carried out only by an authorised user (an administrator).
- If, for any reason, the software update has not completed successfully, then the receiver is marked as 'a receiver with an update error' by the controller. This receiver does not have its original functionality any more. Then, if the "Configure" option for this receiver is selected by means of an application, there is an immediate change to the "Configuration details" screen with a backlit 'Update' field. Software update starts just after pressing this button.



REMOTE TRANSMITTER PROGRAMMING BY MEANS OF EXTA LIFE APPLICATION

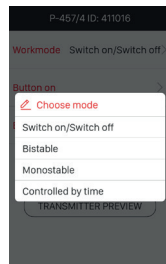
Remote programming allows to add push-buttons of a transmitter to a selected receiver (channel) without a physical access to it (without pressing the PROG. push-button on a receiver). It is particularly comfortable in case receivers are already mounted in a building and access to them is difficult.

Requirements regarding remote programming of transmitters with ROP-22 receiver:

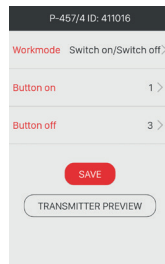
- EXTA LIFE controller must be installed in the system,
- receivers, the transmitter will be remotely assigned to, must be powered and paired with a controller,
- transmitters, we want to assign to receivers remotely, must be paired with a controller,
- during one step it is possible to add only one transmitter to one receiver.

To assign remotely selected push-buttons of a transmitter to a given channel of a receiver, the following steps are required:

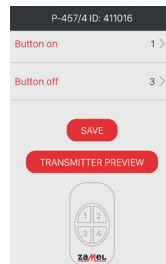
1. Pair the selected receiver with a controller.
2. Pair the controller with a transmitter, which buttons you want to assign remotely to a receiver.
3. Choose the "Assign a receiver" option by means of a transmitter (1).
4. From the list of all paired receivers, choose the receiver (channel) the transmitter will be assigned to (2).
5. In the "Operation mode" field select the mode the transmitter should cooperate with a receiver (3). In case of ROP-21 the switch on / switch off, bistable, monostable and time modes are possible.
6. Choose push-buttons of a transmitter that will be assigned remotely to a receiver (4). In case of time mode, it is required to define time value assigned to a selected push-button. Time can be adjusted in the range from 1 second to 18 hours.
7. By pressing the "Transmitter preview" button, the system displays a transmitter with assigned numbers of push-buttons (5).
8. By pressing the "Save" push-button, a transmitter is remotely programmed in a receiver. As a confirmation, the system displays the following message "Devices have been correctly paired".



3



4

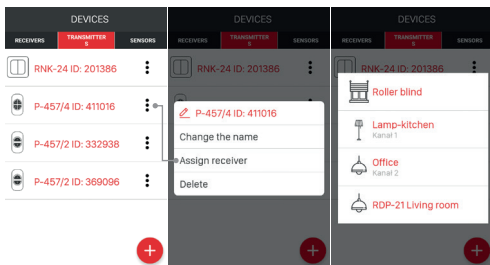


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It is also possible to assign remotely a transmitter to a receiver by means of a receiver. To do it choose the "Assign transmitter" option from the receiver (channel) menu.

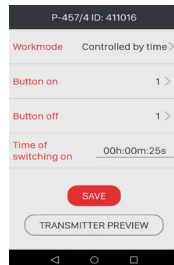
The following cases can occur during time mode programming:

- The „Switch on“ and „Switch off“ buttons are the same – switching on and switching off a receiver before the adjusted time is over, is realised by means of the same push-button (it is, e.g., push-button "1" of P-457/4 remote control).
- The „Switch on“ and „Switch off“ buttons are different – the "switch on" button realizes only the receiver's (channel) switching on function, and the "switch off" button realizes only the switching off function before the adjusted time is over.
- The "Switch off" button has not been defined – the situation is analogical as in point 1.

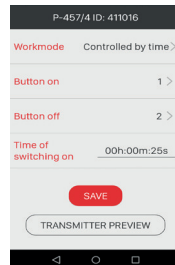


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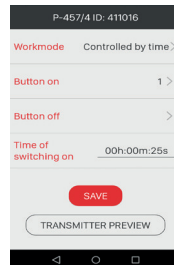
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1



2



3

• ZONE TIME* PROGRAMMING

- Each new push-button assigned to ROP-22 in time mode operates with the so-called zone time. The default zone time is adjusted to 10 seconds. A user can change the zone time value in the range from 1 second to 18 hours. After time zone has been changed, the push-buttons assigned to a receiver in time mode should automatically operate with the new value of the zone time. The exception includes push-buttons with assigned individual times.
- Zone time value can be directly changed by means of a receiver and its PROG. push-button or a mobile application, if the receiver is paired with the EXTA LIFE controller.

DIRECT PROGRAMMING OF ZONE TIME

(by means of the PROG. push-button)

Zone time change for output 1 (OUT-1)

1. Press the PROG. push-button shortly (1sec.) in a receiver –STATUS LED switches on blue.
2. Wait for about 5 seconds till the STATUS LED switches on red.
3. Wait again for about 5 seconds till the STATUS LED switches off.
4. After the LED is switched off, in < 5 sec. press shortly the PROG. push-button.
5. The STATUS LED starts flashing blue – it means time is measured.
6. After the time we want to assign as zone time for output -1, press shortly the PROG. push-button again.
7. The STATUS LED flashes orange to signal time has been programmed correctly.

Zone time change for output 2 (OUT-2)

1. Press the PROG. push-button shortly (1sec.) in a receiver –STATUS LED switches on blue.
2. Wait for about 5 seconds till the STATUS LED switches on red.
3. Wait again for about 5 seconds till the STATUS LED switches off.
4. And again wait for about 5 seconds till the STATUS LED flashes blue.
5. After the LED is switched off, in < 5 sec. press shortly the PROG. push-button.
6. The STATUS LED starts flashing red – it means time is measured.
7. After the time we want to assign as zone time for output -2, press shortly the PROG. push-button again.
8. The STATUS LED flashes orange to signal time has been programmed correctly.

REMOTE PROGRAMMING OF TIME ZONE

Remote zone time change for ROP-22 is also possible by means of a mobile application. To do it, pair the given receiver with the EXTA LIFE system controller. After pairing, the ROP-22 device is visible in the system as 2 channels (Channel 1 and Channel 2). Next, to adjust zone time for a particular channel choose the "Configure" option from the receiver's menu. Then, from the configuration screen set basic parameters for the particular receiver (channel).

In case of zone time, it is required to adjust the "Zone Time" parameter in the range from 1 sec. to 18 hrs. in the following form: hours: minutes: seconds: (xxh : xxm : xxs).

DELETING MEMORY OF A RECEIVER (restoring default settings)

After this operation, all push-buttons of transmitters added to a receiver's memory are deleted. Erasing (deleting) the memory includes the receiver is unpaired from the EXTA LIFE controller. If the receiver's memory included push-buttons assigned in time mode, then after memory deletion the individually assigned push-buttons are also deleted. The zone time has a default setting value - 10 seconds. All data assigned to channel-1 and channel-2 are also deleted. If a user switched off deliberately pairing with the controller (see Switching off pairing - Broadcast OFF), then deleting the receiver's memory switches on automatically the possibility of pairing (default setting).

In order to delete the whole memory of a receiver (restoring default settings), the following steps must be carried out:

1. Press the PROG. push-button for about 5 seconds –STATUS LED switches on orange.
2. After STATUS LED switches off, release the PROG. push-button and in < 5 sec. press it again shortly.
3. The STATUS LED flashes orange to signal the deleting is ongoing. The STATUS LED flashes orange quickly to signal the operation has been completed successfully.

SELECTIVE MEMORY DELETION OF RECEIVERS

In the EXTA LIFE system receivers, there is a possibility to delete selectively push-buttons from a receiver's memory. It allows to delete selected buttons without deleting the whole memory of a receiver. Push-buttons can be deleted directly (by means of the PROG. push-button) or remotely by means of the EXTA LIFE application.

DIRECT DELETING OF PUSH-BUTTONS BY MEANS OF PROG. PUSH-BUTTON

Selective deletion of push-buttons (or pairs for the switch on/switch off mode) from channel-1 of a receiver:

1. Press the PROG push-button for about 5 seconds –STATUS LED switches on orange.
2. After STATUS LED switches off, release the PROG. push-button and next within < 5 sec. press shortly this push-button that is assigned to channel-1 and that will be deleted from the receiver's memory. In case a pair of push-buttons was assigned in a switch on/switch off mode, press only one of the buttons.
3. The STATUS LED flashes orange to signal the procedure of selective deleting has been completed.

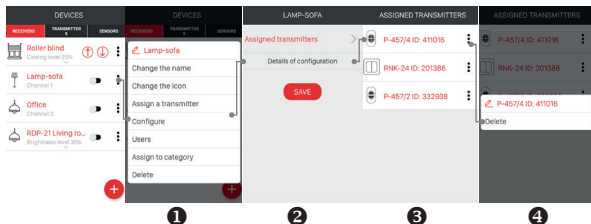
Selective deletion of push-buttons (or pairs for the switch on/switch off mode) from channel-2 of a receiver:

1. Press the PROG push-button for about 5 seconds –STATUS LED switches on orange.
2. After STATUS LED switches off, release the PROG. push-button and wait for about 5 seconds till STATUS LED flashes blue. Next, press shortly this push-button that is assigned to channel-2 and that will be deleted from the receiver's memory. In case a pair of push-buttons was assigned in a switch on/switch off mode, press only one of the buttons.
3. The STATUS LED flashes orange to signal the procedure of selective deleting has been completed.

REMOTE DELETION OF TRANSMITTER BY MEANS OF EXTA LIFE APPLICATION

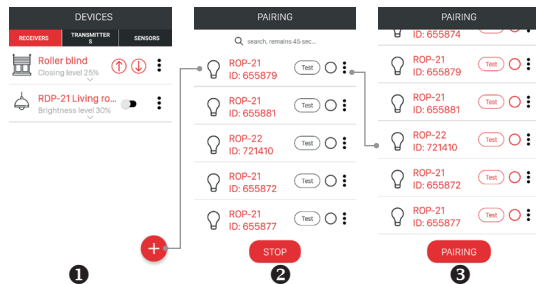
In case we want to delete remotely transmitter's push-buttons from a receiver, it is required that the receiver is paired with the EXTA LIFE controller. To do the above, the following steps must be carried out:

1. Choose the "Configure" option from the receiver's (channel) menu (1).
2. Choose "Assigned transmitters" (2) in the configuration menu to display a current list of transmitters added to its memory (3).
3. Press the transmitter's name to display details included in its memory (numbers of added push-buttons, operation modes, assigned time in time mode).
4. Choose the „Delete“ option from the transmitter's menu to delete selected push-buttons from a receiver's memory (4). A transmitter can also be deleted by sliding the element to the right or left.



is carried out in the switch on / switch of mode. If in the configuration tab the 'switch on time' parameter is set, then a receiver starts operation in time mode with the defined time. Time is adjusted in the range from 1 sec. to 18 hrs.

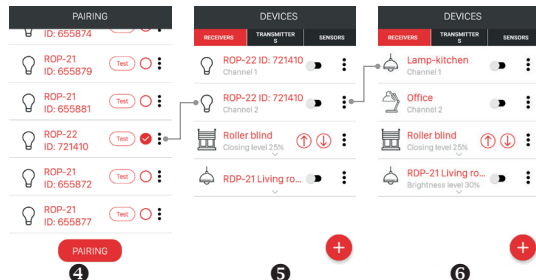
8. The receivers can be paired individually – press the "PAIR" push-button and assign a new name to a receiver. In case a larger number of receivers are paired, they are automatically saved with default names.
9. After pairing, it is possible to add an individual name and icon (from the icon base) to each ROP-21 receiver.
10. Only after pairing the receivers can be used in the system in a further configuration process (assigning a user, a category, building scenes, time and logic functions).



REGISTRATION (PAIRING) ROP-22 IN THE EXTA LIFE SYSTEM

In order to register ROP-22 in the system, it is necessary to connect the EXTA LIFE controller in the system and to install the EXTA LIFE mobile application. The receivers must be connected to 230 V AC. They are remembered in the system only after they have been properly paired with a controller. To do it carry out the following steps:

1. Activate the application and enter the Device screen.
2. Choose the receiver tab and press „+“ (1) to start the searching process of receivers installed in the system. It lasts no longer than 60 seconds and can be stopped by means of the „Stop“ push-button. All receivers located within the controller are automatically displayed in a list form with a default name including the receiver's name (ROP-22) + 6- digit ID serial number assigned to this receiver (2).
3. After searching has been completed (3), press the 'TEST' button to quickly locate the receiver (both receiver's outputs are switched on as long as the TEST push-button is pressed).
4. By marking fields next to the 'TEST' push-button, (4) we choose receivers to be paired with the EXTA LIFE controller. It is possible to mark more than one receiver.
5. Press the 'PAIR' push-button to pair the marked receivers. After a while the receivers are registered in the system and are visible on the list in the Receivers tab (5).
6. After pairing ROP-22 receivers are always visible as two channels: Channel-1 (OUT-1) and Channel-2 (OUT-2). A default icon is assigned to each channel.
7. The receivers, just after pairing, can be controlled at once by means of application buttons. The receiver's mode is signalled by a switch position and a switch icon (6). By default, control



CAUTION: In order to register receivers successfully in the system (mainly if there is a larger number of receivers), it is necessary to activate the device pairing method several times and pair the ones that were found.

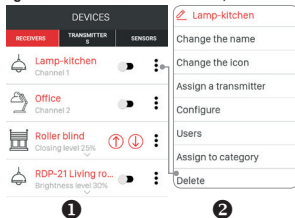
DELETING (UNPAIRING) ROP-22 FROM EXTA LIFE SYSTEM

Each registered ROP-22 receiver can be deleted from the system. Deleting means 'unpairing' a receiver from a controller.

CAUTION: In case of ROP-22 receiver, there is no possibility to delete (unpair) only one channel (channel-1 or channel-2). By deleting one out of the two channels, the whole receiver is deleted from the controller (the system).

In order to delete a receiver from the EXTA LIFE system, the following steps must be carried out:

1. Activate the application and enter the Device screen.
2. Select the Receivers tab, next select the "Delete" option from a particular receiver's menu.
3. After deletion, a receiver is automatically removed from the list of paired receivers.



SWITCHING ON / SWITCHING OFF PAIRING (BROADCAST OFF)

Switching off pairing (broadcast) is recommended, if a receiver operates in the EXTA LIFE system without a controller (e.g. only with radio transmitters). Switching off pairing causes a receiver is not visible in the search process carried out by means of a controller. The above protects against taking over control of a receiver by unauthorised users. This situation does not take place in case a receiver has been previously paired with a controller. In such a case, it is not visible for other controllers in the search process of receivers. Summarising, in order to protect correctly your system, the following must be carried out:

1. If there is no controller in the EXTA LIFE system – switch off pairing (Broadcast OFF) in all receivers
2. If there is a controller in the EXTA LIFE system – pair each receiver with the controller.

Switching off pairing is a reversible process. It means, if the EXTA LIFE controller is installed in the system, pairing function must be switched on, so that receivers can be found in this system.

SWITCHING OFF PAIRING (BROADCAST OFF)

In order to switch off pairing the following must be carried out:

1. Disconnect power supply from the receiver.
2. Press the PROG. push-button on a receiver.
3. While the PROG. push-button is pressed, switch on power supply.
4. Keep the PROG. push-button pressed for about 5 seconds.
5. Gdy dioda STATUS kilkakrotnie zamruga na pomarańczowo należy zwolnić PROG push-button.
6. After the above steps were carried out, pairing is switched off.

SWITCHING ON PAIRING (BROADCAST ON)

In order to activate pairing, it is necessary to reset the receiver to default settings (see Deleting the whole memory of a receiver).

CAUTION: As a result of the above, all data (push-buttons, times) entered to a receiver's memory are deleted. They must be added again. The easiest way to do it is by means of the extra life mobile application, and just after the extra life controller has been installed.

INPUT FUNCTIONALITY

- The IN1 and IN2 inputs of ROP-22 receiver are fully configured, but only by means of the EXTA LIFE mobile application. The configuration refers to choosing the type of switch that is connected to a IN1/IN2 inputs, the operation mode of a particular input and the channel switching on time, in case time mode has been selected. The application allows for the so-called input 'mapping', it means a switch connected to the IN1 input can control channel 2, and a switch connected to the IN2 input can control channel 1.
- Default settings – refer to both inputs (IN1 and IN2):
 - Switch type: monostable (1 push-button)
 - Operation mode: bistable.
 - IN1 input controls channel 1 (OUT1).
 - IN2 input controls channel 2 (OUT2).

Input configuration change:

1. Activate the application and enter the Device screen.
2. To configure channel 1 (OUT1) operation by means of wired inputs of ROP-22, select the 'Configure' option from this channel menu. Carry out analogical steps to configure channel 2 (OUT2) operation - select the 'Configure' option for this channel.
3. Expand the configuration screen and, first, define the 'Input type' field. There are two types of switches to choose:
 - monostable (push-button) switch,
 - bistable (push-button) switch,
4. Next, define the 'Input mode'. The operation modes depend on the previously selected 'Input type'

Monostable switch modes	Bistable switch modes
bistable	bistable
time	time
monostable	-
switch on / switch off	switch on / switch off
switch on	switch on
switch off	switch off

5. Next, with reference to the selected input mode, choose the input number that should control the particular channel (it refers to the following modes: bistable, time, monostable, switch on / switch off). In case of switch on/switch off mode, it is important to select the input that should realise the switch on function.
6. In case of time mode selection, it is required to additionally define the switching on time parameter of an input by means of the wired input. Time is defined in the range from 1 sec. to 18 hrs. in the following form: hours: minutes: seconds.

CAUTION: The switching on time is assigned to an input. There is not a possibility that a receiver's output is switched on with time t1 by means of IN1 input and with time t2 by means of IN2 input.

7. Press the 'Save' button to save all settings – the settings will be saved in the receiver.

Remarks:

- A particular input (IN1 or IN2) can be simultaneously assigned to both outputs – it means that it is possible to control channel 1 or channel 2 by means of this input.
- In case the switch on/switch off mode is selected, then only one input can be chosen to realise the switch on function, and the second input will realise the switch off function – in this mode, it is possible to control independently only one channel or two channels simultaneously.
- In case of push-buttons, inputs react only to short impulses (rising edge). An exception includes the monostable mode with an input switched on as long as the push-button connected to a receiver's input is pressed.
- In case of bistable switches, inputs react only to the rising and falling edge. It means, each switch position change triggers a particular mode.
- The structure of outputs is designed to a long term trigger, which is very important during switch application.

Input configuration
list for Channel 1 of
ROP-22

KITCHEN	
Channel1	
Mode after power supply is switched on	Switched on >
Switch on time	_____
Zone time	_____
Input type	Monostable push-button >
Input mode	Bistable >

OUTPUT MODE CONFIGURATION AFTER POWER SUPPLY SWITCH ON

In case of ROP-22 receiver, it is possible to configure its input operation mode after power supply has been switched on. As a default setting, the receiver's input is switched off.

Possible output modes:

- switched off,
- switched on,
- previous mode - after power supply has been switched on, the input mode is the same as before power supply failure. Time mode is an exception – if power supply is switched off during time measurement, then after power supply is switched on again – the input remains in the switched off mode.

After power supply is switched on, the output operation mode is adjusted in the receiver configuration tab (of the particular channel).

KITCHEN	
Channel1	
Mode after power supply is switched on	Switched on >
Switch on time	_____
Zone time	_____
Input type	Monostable push-button >
Input mode	Bistable >

Select mode

- Switched on
- Switched off
- Previous mode

1

2