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DESCRIPTION

The ROM-24 modular radio receiver is the final element of the EXTA LIFE system which allows individual control of any four devices/ circuits. Outputs take the form of four relays with normally open terminals with maximum load rating at 5 A. This enables the control of low voltage circuits (for example 12/24 VAC/VDC) and high-voltage circuits (230 VAC). The receiver is good for remote actuation of other devices. You can also use it for feeding control signals. The ROM-24 receiver is also suitable for controlling solenoids in heating systems. Based on duplex communication between the controller and receivers, the mobile applica-tion always shows the current status of the receiver. This communication method enables the operator to change the specific parameters of the receiver and add receivers remotely (i.e. without actual access to the receiver). Thanks to the frame encryption algorithm implemented control safety is guaranteed. The ROM-24 installed outside a controller may be controlled in parallel using the EXTA LIFE system's transmitters. You can register more transmitters with a receiver to enable independent control from several locations. Additional configurable cable inputs increase the functionality of the control. The receiver has a built-in remote software update from a controller. The product is designed for installing in switchgears using a TH35 (DIN) bar. With removable antenna to enable the connection of an external antenna.

FEATURES

- Rated supply voltage 230 VACCompatible with EXTA LIFE system controller and transmitters
- With 4 output channels (4 x potential-free NO contacts)
- Two-way transmission with an indication of each output status in the application
- Programmable output status after supply voltage loss.
- 4 programmable external inputs
- · For connecting monostable or bistable con-
- 4 operating modes when working with transmitters (activate/deactivate, bistable, monostable, time).
- 2 operating modes when working with a controller (activate/deactivate, time),
- Independently programmable time for radio transmitters, external inputs and for control-
- Times assigned independently for each output
- Software can be updated remotely

Zamel Sp. z o.o. hereby declares that the ROM-24 radio equipment type conforms to Directive 2014/53/EU.



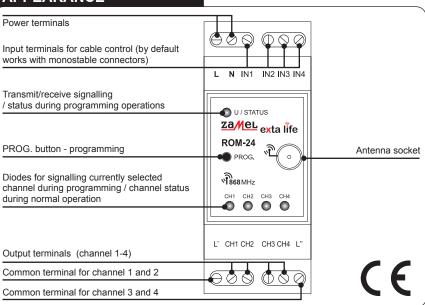
The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other

TECHNICAL DATA

Rated supply voltage	230 VAC
Rated frequency	50 / 60 Hz
Rated power consumption	0.65 W – standby 2.2 W – all channels activate
Transmission	RF – ISM 868 MHz (868.50 MHz) band
Transmission mode	duplex – 9600 bps
Maximum power	14 dBm (25 mW)
Encryption	128-bit key algorithm
Operating range	max. 300 m in open areas
Transmitting/programming signalling	Yes - green LED (STATUS)
Selected channel / channel status signalling	Yes - red LEDs (CH1, CH2, CH3, CH4)
Maximum number of paired buttons	96 pairs (distributed into 4 channels)
Current channel status information	Yes - in EXTA LIFE mobile application
Operation modes in co-operation with EXTA LIFE system transmitters	Turn on/off, bistable, monostable, time
Operation modes in co-operation with an EXTA LIFE controller	Turn on, off, timer
Number of external outputs	4
Compatible connectors*	monostable (buttons), bistable
Operation modes for external inputs**	Turn on/off, bistable, monostable, time
Time setpoint range***	1 s–18 h
Number of output channels	4
Relay contact parameters	4 x NO 10A / 250 VAC (voltage-free closing contacts)
Maximum outputs current-carrying capacity	4 x 5A / 250 VAC
Number of termination points	12 (conductor cross-section up to 2.5 mm2)
Enclosure mounting	TH35 bar (DIN)
Operating temperature range	-10 to +55°C
Enclosure protection rating	IP20
Dimensions	90 x 35 x 66 mm (double module)
Weight	0.125 kg

- selection of switch possible only from the mobile app coupled with EFC-01 controller input operating mode selection depends on the type of connector type selected times are assigned independently to each channel of the receiver. The periods are programmed separately for buttons operating in time mode, external inputs and for control from the app level

APPEARANCE



OPERATING CONSIDERATIONS

RECEIVER FUNCTIONALITY ROM-24:

- 1. The ROM-24 receiver may be controlled at the same time using:
- EXTA LIFE system transmitters (on/off, bistable, monostable, time mode),
- The EXTA LIFE mobile app after pairing with controller (on/off, time mode).
- IN1 to IN4 external inputs (operating mode depends on the connector type see Input functionalities).
- 2. The current state of a channel is indicated in the mobile app and by LEDs on the front panel.
- 3. More EXTA LIFE buttons/receivers can be assigned to a single receiver up to 96 pairs (e.g. 48 receivers in on/off mode). This number applies to the entire receiver (jointly for all four channels).
- 4. Radio transmitters can be programmed with a receiver locally using the PROG button and remotely without access to the receiver using mobile app.
- 5. Several receivers (channels) may work with a single transmitter; in such a situation it is recommended to assign a transmitter to each receiver (channel) working in on/off mode.
- 6. A receiver may be paired with only one EXTA LIFE controller at a time. The paired receiver is not visible to another controller during the search process.
- 7. Transmitter buttons assigned to the specific receiver's channel may be deleted individually.
- 8. It is also possible to delete all buttons stored in the receiver's memory at the same time by performing factory reset.
- 9. Basic parameters of a ROM-24 receiver are configured from app level.
- 10. The parameters are configurable independently for each channel (from CH1 to CH4).
- 11. You can use mobile app to execute remote software update in the receiver.

Default settings (factory settings) for a ROM-24 receiver

Parameter	Default settings	Configuration range
Output status after supply voltage loss	off	Yes – mobile app
Type of connectors compatible with inputs IN1 to IN4	Monostable connectors (buttons)	Yes – mobile app
Operating mode inputs IN1 to IN4	bistable (cyclic change of output condition)	Yes – mobile app
Default time for receiver's channels (CH1 to CH4)*	10 s	Yes – mobile app / PROG button

^{*} Applies only to time mode

OPERATING MODES

ON/OFF MODE

In the on/off mode, two transmitter buttons are always used for controlling the receiver's channel. One of the buttons is always used for "on" function and the other for the "off" function.

CAUTION! This mode is recommended for use to control more channels, i.e. more receivers using one transmitter.

BISTABLE MODE

In the bistable mode, only one transmitter button is used for controlling the receiver's channel. That means that one button performs both the "on" and "off" function. Output control is executed as a cyclic change of status at subsequent presses of the button on the transmitter. The bistable mode enables independent control of more receivers using a single transmitter. For example when using remote a 4-channel remote control P-457/4, it is possible to independently configure 4 circuits (channels).

CAUTION! The bistable mode is not recommended for simultaneous control over more than one receiver (channel).

MONOSTABLE MODE

In the monostable mode, only one transmitter button is used for controlling the receiver's channel. The receiver's output is active as long as the transmitter key is pressed.

TIME MODE

In the time mode, only one transmitter's button is used for controlling the specific transmitter's channel. The receiver's output is activated by pressing the transmitter button and deactivated automatically after a preset time. Pressing the transmitter button during the countdown time results in quicker deactivation of the receiver's output (system without re triggering of time). The activation time can be programmed in the range from 1 s to 18 h. With the ROM-24 receiver you can set independent times for each button assigned to the time mode, for each local input and for control from application.

ACTIVATE MODE

This mode is available only from installation connectors connected to inputs IN1 to IN4. In this mode you can only activate the specific channel, i.e. output in a receiver.

DEACTIVATE MODE

This mode is available only from installation connectors connected to inputs IN1 to IN4. In this mode it is possible to deactivate the specific channel (output) in a receiver.

ROM-24 receiver's operating modes summary

2 i receiver e operating	,			
Operating mode	Radio transmitters EXTA LIFE	Application EXTA LIFE	Monostable connector (button)	Bistable connecto
on/off mode	+	+ (default)	-	-
Bistable mode	+	-	+ (default)	-
Monostable mode	+	-	+	+
Time mode	+	+	+	+
Activate mode	-	-	+	+
Deactivate mode	-	-	+	+
Inactive	-	-	+	+

With EXTA LIFE radio transmitters, the operating mode is set by assigning the correct transmitter buttons to the receiver. In other cases, the operating mode is configured using EXTA LIFE mobile app.

PROGRAMMING EXTA LIFE RADIO TRANSMITTERS

The LEDS indicate the following during the programming process:

- Green LED "STATUS" programming process status
- Red LEDs "CH1" to "CH4" currently selected channel
- The LEDS indicate the following during standard operation:
- Green LED "STATUS" receiving and transmitting data (light up briefly),
- Red LEDs "CH1" to "CH4" current status of the channel.

CAUTION: In the ROM-24 receiver the programmable operating modes are overwritten. This means that if the selected transmitter's button has been assigned to the receiver output in the bistable mode, then to be able to assign that button to that channel in another mode (e.g. time mode), it is not necessary to delete this button from the receiver's memory in advance. In such a situation, the bistable mode will automatically change to time mode. Exception: when button "1" on the transmitter is assigned to output 1 in bistable mode and button "2" is assigned to output 2 using the same mode. Then, to assign buttons 1 and 2 of one transmitter operating in on/off mode to output 1, you must first delete button 2 from output 2. This may also apply to other combinations not described in this manual.

A receiver will react correctly only to the buttons which have been entered during programming. You can enter more buttons to a single receiver during successive iterations of the programming process (maximum 96 pairs). This number applies to the entire receiver and not just a single channel.

In an EXTA LIFE system with receiver, you can program the selected buttons to the transmitter. This enables good flexibility during programming. Using a P-456/8 remote with 8 buttons as an example you can program the buttons in the following way:

Button number	Operating mode	Receiver's response
1	bistable mode – channel 1	Controls channel 1 (CH1)
2	bistable mode – channel 2	Controls channel 2 (CH2)
3	bistable mode – channel 3	Controls channel 3 (CH3)
4	bistable mode – channel 4	Controls channel 4 (CH4)
5, 6	on/off – channel 1 and 2	5 – activation of channel CH1 & CH2 6 – deactivation of channel CH1 & CH2
7, 8	on/off – channel 3 and 4	7 – activation of channel CH3 & CH4 8 – deactivation of channel CH3 & CH4

The same transmitter's buttons may be entered simultaneously to multiple receivers (channels). Taking into account certainty and correct operation, it is recommended to use on/off mode then. With the remaining modes, there can be an de-synchronization effect in the receivers' operation.

The buttons can be entered directly to the receiver using the PROG. button. (Requires actual access to the receiver) or remotely (without physical access to the receiver) using a controller and EXTA LIFE mobile app.

DIRECT PROGRAMMING USING PROG BUTTON

You can use the PROG button on the receiver to directly assign radio transmitters to the receiver.

PROGRAMMING BUTTONS TO SELECTED CHANNEL OF THE RECEIVER

Using 2-button remote P-457/2 as an example

ON/OFF MODE

- 1. Briefly (1 s) press PROG button on the receiver; "CH1" LED lights up.
- 2. From the moment of "CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. After the STATUS LED is lit, within 5 s briefly press the button which is to be assigned to activate the "activate" function (for example "1" on the P-457/2 remote).
- 5. STATUS LED will go off and light up again.
- 6. Within next 5 s briefly press the button to be assigned with the "deactivate" function (e.g. "2" on P-457/2 remote).
- 7. After correct assignment of the buttons, several quick blinks of STATUS LED occur and the LED for specific channel in the receiver goes off.

BISTABLE MODE

- 1. Briefly (1 s) press PROG button on the receiver; "CH1" LED lights up.
- 2. From the moment of "CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. After the STATUS LED is lit, within 5 s briefly press and hold the button which you want to assign in bistable mode (for example "1" on P-457/2 remote). 5. STATUS LED will go off and light up again.
- 6. Within next 5 s, release the button to be assigned in the bistable mode (e.g. "1" on P-457/2 remote).
- 7. After correct assignment of the button, several quick blinks of STATUS LED occur and the LED for specific channel in the receiver goes off.

MONOSTABLE MODE

- Press the button you want to enter in monostable mode (for example "1" on P-457/2 remote).
- 2. While holding the transmitter button pressed, briefly press (1 s) the PROG button on the receiver; "CH1" LED lights up.
- 3. From the moment of "CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 4. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 5. After the STATUS LED is lit, within 5 s release the transmitter button you want to enter in monostable mode.
- 6. STATUS LED will go off and light up again.
- 7. Within next 5 s again briefly press the button to be entered in the monostable mode.
- 8. After correct assignment of the button, several quick blinks of STATUS LED occur and the LED for specific channel in the receiver goes off.

IME MODE

Step_1: Pairing selected button with the selected channel in the receiver

- 1. Briefly (1 s) press PROG button on the receiver; "CH1" LED lights up.
- 2. From the moment of "CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. After the STATUS LED is lit, within 5 s briefly press the button to be entered in the time mode (for example "1" on P-457/2 remote).
- 5. STATUS LED will go off and light up again.
- 6. Within the next 5 s again briefly press the button to be entered in the time mode (for example "1" on P-457/2).

7. After correct assignment of the button, several quick blinks of STATUS LED occur and the LED for specific channel in the receiver goes off.

After pairing the selected button on the transmitter with the channel on the ROM-24 receiver, the period assigned to this button takes the default value of 10 s (default global time). To change the time, carry out the time programming procedure (Step_2). With the ROM-24 receiver, you can assign individual time to each button paired with selected channel. The time is programmable from 1 s to 18 h.

Step_2: Programming the time assigned to the selected button in time mode

- 1. Briefly (1 s) press PROG button on the receiver; "Led_CH1" LED lights up
- 2. From the moment of _Led_CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from LED_CH1 to LED_CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. After the STATUS diode lights up, wait approx. 5 s until the LED goes off.
- 5. After the LED goes off in less than 5 s, briefly press the transmitter button assigned to the selected channel in time mode. (This refers to the transmitter you want to program time).
- 6. The STATUS LED will start blinking which signals time measurement.
- 7. After a period of time you want to assign to the specific button has passed, again briefly press the button on the transmitter selected previously.
- 8. The time programming procedure is now complete which will be confirmed by blinking STATUS LED and the LED for the selected channel going off.

Time assigned to a button can only be changed through its reprogramming.

REMOTE PROGRAMMING USING EXTA LIFE APPLICATION

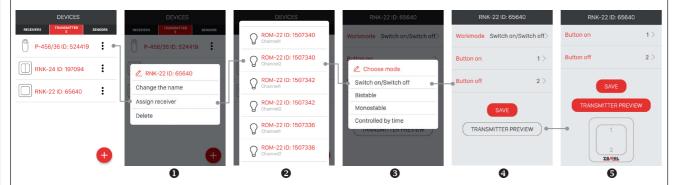
The remote programming function for receivers enables you to assign the transmitter's buttons to the selected receiver's channel, without actual access to the receiver, i.e. without the need to press the PROG button on the receiver). This is particularly convenient when the receivers are already installed in a location and it is difficult to access them.

Requirements for remote programming transmitters with ROM-24 receiver:

- An EXTA LIFE controller installed in the system.
- The receivers you want to assign to the receiver are supplied with power and paired with a controller,
- The transmitters to be remotely assigned to receivers must be paired with the controller,
- During one step only one transmitter can be remotely assigned to a receiver.

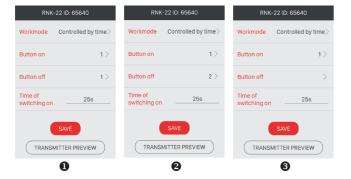
To remotely assign selected buttons on a transmitter to the specific channel, do the following:

- 1. Pair the receiver with controller.
- 2. Pair the transmitter with the controller, this applies to the transmitter whose buttons you want to remotely assign to the receiver.
- 3. On the transmitter select "Assign receiver" 0.
- 4. From the list of all paired receivers select the receiver (channel) to which you want to remotely assign the transmitter @.
- 5. In the "Operating Mode" field set the mode for use by the transmitter working with the receiver (channel) **9**. The available modes for ROM-24 are: on/off, bistable, monostable, time.
- 6. Select the transmitter's buttons for remote assignment to the receiver **9**. In case of time mode, you must also declare time assigned to the selected button. The time range available is from 1 s to 18 h.
- 7. Pressing the "Transmitter preview" button brings up a transmitter's view with button numbers shown .
- 8. Press "Save" to remotely program the transmitter into the receiver. After the correct completion of the operation you will see the message "The devices have been paired".



Remote assignment of a transmitter to receiver can be also executed from the receiver level. In this situation, select "Assign transmitter" from the receiver's (channel's) editing menu.

If you are programming time mode, the following situations are possible:



- 1. "On button" and "off button" are the same receiver (channel) activation and deactivation before the programmed period is executed using the same button (in this example, it is "1" on the RNK-22 transmitter).
- 2. "On button" and "off button" are different the "on" button only activates the receiver (channel) and "off" button only deactivates the device before the programmed time elapses.
- 3 "off button was not defined the situation is the same as the one described in section 1.

PROGRAMMING "GLOBAL TIME"

Each new button assigned to a specific channel in the ROM-24 receiver in time mode operates using "global time". By default the global time for all channels is set to 10 s. The user can change the global time value within the range from 1 s to 18 hours. After changing global time for the specific channel, the buttons registered with this output in time mode will operate automatically with new value for global time. Exception: individual times assigned to buttons during programming stage.

The global time value can be adjusted from the receiver using PROG button and also from mobile app if the receiver is paired with the EXTA LIFE controller.

PROGRAMMING GLOBAL TIME using PROG button

Programming (changing) global time for the selected channel receiver

- 1. Briefly (1 s) press PROG button on the receiver; "CH1" LED lights up.
- 2. From the moment of "CH1" LED goes on, you have 2 s to briefly press PROG button to select channel number. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. After the STATUS diode lights up, wait approx. 5 s until the STATUS diode goes off.
- 5. After the LED turns off, briefly press PROG within 5 s. The STATUS LED will start blinking which signals time measurement.
- 6. After the time you want to program as the new "global time" has passed, again briefly press PROG.
- 7. The global time programming procedure is now complete which will be confirmed by blinking STATUS LED and the LED for the selected channel going off

Time assigned to a button can only be changed through its reprogramming.

REMOTE PROGRAMMING OF GLOBAL TIME using mobile application

Remote change of global time for each of ROM-24 receiver's output is also possible using mobile app. To do so, first pair the receiver with an EXTA LIFE system controller. After successful pairing, ROM-24 receiver will be visible in the system as 4 channels (from Channel 1 to Channel 4). To set global time for a channel, from the editing menu select "Configure". You will be transferred to the configuration screen where you can set basic parameters for the specific channel in the receiver.

For global time, set the "Global time" parameter. This parameter can be set from 1 s to 18 h using the following format — hour : minutes : seconds (xxh : xxm :xxs).

SELECTIVE DELETION OF RECEIVER'S MEMORY

In the EXTA LIFE system receivers, you can use selectively delete buttons from the receiver's memory. This enables you to delete only the selected buttons without the need to clear the complete memory of the receiver. You can delete buttons using the PROG button or remotely using the EXTA LIFE app.

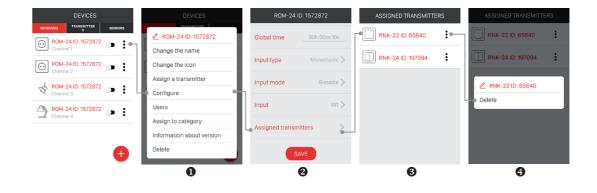
DELETING RECEIVERS USING PROG BUTTON

- 1. Press the PROG button for approximately 5 s until STATUS LED lights up.
- 2. After the STATUS LED goes off, "CH1" LED will come on. You must then release the PROG button and in less than 2 seconds briefly press the PROG button to select the number of channel to delete transmitter buttons. The channel selection is signalled by lighting up the correct LED (from CH1 to CH4).
- 3. After selecting the channel wait approx. 2 s for STATUS LED to light up.
- 4. Next, within less than 5 s you must briefly press the button assigned to the channel to be deleted from the receiver's memory. If the button pair has been assigned using on/off mode, just press one of these buttons.
- 5. Successful completion of the selective clearing is indicated by a series of quick blinks of STATUS LED and turning off the LED for the selected channel.

DELETING TRANSMITTERS USING EXTA LIFE APP (REMOTE)

The receiver from which you want to remotely delete receivers' buttons must be paired with an EXTA LIFE controller. To remotely delete buttons from the receiver's memory, do the following:

- 1. From a receiver's (channel) editing menu, select "Configure" **①**.
- 2. At the configuration screen, press the "Assigned transmitters" of to download the list of transmitters currently stored in the receiver's memory of
- 3. By pressing the name of a transmitter you can view details on the record in the receiver's memory displayed its entry into the memory of the receiver (numbers of entered keys, operating mode, assigned time for time mode).
- 4. By selecting "Delete" from the transmitter's editing menu, you delete the transmitter buttons from the receiver's memory (4). You can also delete a transmitter by moving an element to the side.



CLEARING ALL RECEIVER MEMORY

After clearing the receiver's memory (channels 1 to 4) all buttons are removed from the memory. Clearing the memory includes unpairing (removal) of the complete receiver from an EXTA LIFE controller. If there are buttons entered in time mode in the receiver's memory, then after clearing the memory also the individually assigned times were cleared. Global time assumes the default value of 10 s.

To clear the complete receiver's memory, do the following:

- 1. Press the PROG button for approximately 5 s until STATUS LED lights up.
- 2. After the STATUS LED goes off, "Led_CH1" LED will come on. Then, release the PROG button and wait until STATUS LED lights up.
- 3. After the STATUS diode lights up, again briefly press PROG button.
- 4. After approx. 3 s, the STATUS LED will start blinking which informs that you entered deleting procedure. Completion of the deleting procedure is signalled by the STATUS and "Led_CH1" LEDs going off.

After this procedure, the receiver will be restarted which is indicated by blinking of the STATUS LED for approximately 5 s.

REGISTERING (PAIRING) OF ROM-24/8 RECEIVER IN EXTA LIFE

To register the receiver ROM-24 in the system it is necessary to connect an EXTA LIFE controller and install the EXTA LIFE mobile app. The receivers must be connected to 230 VAC power supply. The receivers are saved in the system only if they have been successfully paired with the controller. Procedure:

1. Launch the application and open the Devices screen.

- 2. Select the Receivers tab and press "+" to start searching for receivers installed in the system. The discovery takes up to 60 s. You can terminate it earlier by pressing Stop. If the receivers are in the range of the controller, they will automatically appear on the list with its default name, which is the receiver model (ROM-24) with its six-digit ID in the suffix •.
- 3. After completion of the discovery procedure **9** by pressing "TEST", it is possible to quickly find the receiver (all channels for the receiver will be active as long as the TEST button is pressed).
- 4. By selecting the boxes next to "TEST" button you can select receivers to pair with the EXTA LIFE controller. You can select more than one receiver with the selection boxes.
- 5. Press PAIR to pair the selected receivers. The selected receivers will be recorded in the system and appear in the Receivers tab 9
- 6. ROM-24 receivers after pairing are always shown as four channels from channel 1 (CH1) to channel 4 (CH4). A default icon is assigned to each channel
- 7. The receivers after pairing can be controlled right away using switches in the application. The receiver status is signalled using the switch position and an icon **6**. By default, the control is executed in on / off mode. If you set the "activation time" parameter on the configuration tab, then the receiver will begin work in time mode with the declared time. The time can be set within the range from 1 s to 18 h.
- 8. You can pair one receiver at a time; once PAIR has been pressed, you can assign a new name to the receiver. In the event of simultaneous pairing of more receivers, they are automatically saved with the default names unless individual names have been assigned to them before pairing.
- 9. An individual name and icon (from the base of available icons) may be assigned to each channel of ROM-24 receiver also after the pairing operation.
- 10. Only when paired can the receivers be used in the system for further configuration (assigned to users, categories, building scenes, time or logical functions).



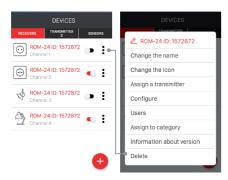
DELETING (UNPAIRING) A ROM-24 RECEIVER FROM EXTA LIFE SYSTEM

Each ROM-24 receiver registered in the system may be removed. Removal is the "unpairing" of a receiver from the controller's assets.

CAUTION: With ROM-24 receiver you cannot remove, i.e. unpair only single channel. Removing one channel always results in removal of the receiver as a whole from the controller's memory (system).

To remove a receiver from the EXTA LIFE system:

- 1. Launch the application and open the Devices screen
- 2. Select the Receivers tab and then from the editing menu for a receiver or channel, select "Remove".
- 3. The receiver after removal is automatically deleted from the list of paired receivers.



INPUT FUNCTIONALITY

Inputs from IN1 to IN4 on the ROM-24 receiver are fully configurable. The configuration is carried out only using EXTA LIFE mobile app.

The configuration includes the following items:

- Selecting the type of connector coupled to inputs IN1 to IN4,
- Selecting the operating mode for specific inputs,
- Channel activation time setpoints if time mode was selected as input operating mode.

The app also allows the substitution of the order of inputs so the connector connected to the input can control any channel in the ROM-24 receiver.

Default settings for inputs IN1/IN2:

- Connector type: monostable (button)
- Operating mode: bistable
- Input IN1: controls channel 1 (CH1)
 Input IN2: controls channel 2 (CH2)
- Input IN3: controls channel 3 (CH3)
- Input IN4: controls channel 4 (CH4)

To change inputs configuration:

- Launch the application and open the Devices screen.
- 2. When configuring the operating mode for inputs for specific channel from editing menu, select "Configure".
- 3. After opening the configuration screen, first set the "Input type" field. The following types are available:
- monostable connector (button),
- bistable connector.
- 4. Next, set the operating mode for input "Input mode" field. The modes available for selection depend on the "Input type".

Modes for the monostable connector	Modes for the bistable connector
bistable	-
Time	Time
monostable	monostable
activate	activate
deactivate	deactivate
Inactive	Inactive

- 5. During the next step, depending on the selected input operating mode, set the number of input to control this channel (applies to bistable, time, monostable, activate, deactivate). For on/off mode, set the input to be used for the activate function and output for the deactivate function.
- 6. If time mode was selected, you must also declare the activation time for the output from cable input. The time can be set from 1 s to 18 h in the format of hour: minutes: seconds.
- CAUTION: The activation time is assigned to the output. Remember that during mapping, i.e. changing the order of inputs.
- 7. After configuring all the settings press "Save" to save the configuration in the receiver.

NOTES:

- Specific input can be assigned to several outputs simultaneously which enables the user to use one input to control several channels of the ROM-24 receiver.
- If the mode selected is on / off, then only one of the inputs can always be set as the one performing the activate function and the other as deactivate function.
- With monostable connectors, i.e. buttons the inputs react only to short pulses (rising slope). The exception is the monostable mode in which the output is active as long as the button connected to the receiver's input is pressed.
- With bistable connectors, the inputs react to the rising and falling slope. This means that any change in connector's position triggers the specific mode.
- The inputs are designed for long-term triggering which is particularly important for use with connectors (long-term phase voltage supplied to input).



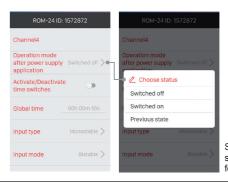
OUTPUT MODE CONFIGURATION AFTER POWER SUPPLY SWITCH ON

With ROM-24 receiver, you can configure the status of the output after activating supply voltage. By default, the outputs are configured as "off".

Available output states after activation of supply voltage:

- oπ
- previous state.

If you selected "previous state" after activating supply voltage, the output after engaging the supply voltage will operate in the state it was before turning off. Time mode is an exception here — cutting the voltage during time measurement, then after reapplying the power, the output will operate in deactivated state.



Status of the specific output after activating the supply voltage can be set on configuration tab for the channel.

INSTALLATION

The ROM-24 receiver is designed for installation in switch cabinets on a TH35 (DIN) bar. The receiver's body takes up two modules. It is required to connect an antenna for correct operation. If you need to install the antenna outside the switch cabinet (applies mainly to metal switchboards), you can use external antenna ANT-01 with a 3 m cable. The antenna with an SMA type connector.

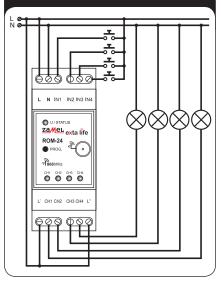
- 1. Disconnect the supply circuit with a fuse, an overcurrent circuit breaker or an isolator connected to the corresponding circuit.
- 2. Check the voltage-free status of the power cords with a suitable instrument.
- 3. Connect the wires to the terminals according to the connection diagram.
- 4. Install the device on a TH35 (DIN) bar in the switchgear.
- 5. Turn on the supply circuit and check for proper operation (when an output is triggered, the red LED assigned to it should light up).



Connect the device to singlephase mains, according to applicable standards. The connection method is shown in this manual. The activities related to the instal-lation, connection and adjustment

should be performed by qualified electricians, familiar with the user manual and functions of the device. Removing the housing leads to the loss of guarantee and creates the risk of electric shock. Before starting installation, ensure connection lines are not supplied with voltage. For installation, lation, use a Philips screwdriver with a diameter of up to 3.5 mm. The correct operation of the device can be affected by transport, storage and operation. Installing the device is not recommended in the following cases: no components, damage to the equipment or deformities. In the event of malfunctioning, contact the manufacturer.

CONNECTION



NOTES

- Observe the maximum output current-carrying capacity value:
 incandescent and halogen light bulbs: 750 W / per channel

 - compact fluorescent lamps (CFL): 250 W / per channel
 - LED lamps: 60 W / per channel
- 2. During the installation make sure that the receiver is not exposed to direct water impact or operation in increased humidity environment. The temperature at the installation site should be from -10 to +55°C
- 3. The ROM-24 transmitter is designed for indoor installation. If installed outdoors, the receiver must be placed in additional pressure-tight housing and protected against the ingress of water particu-
- The receiver has a detachable antenna. You can also connect an external antenna ANT-01 and install it outside the switchboard.
- Installation connectors for wired control can be connected to inputs from IN1 to IN4 of the ROM-24 receiver. By default these inputs are designed for work with monostable connectors, i.e. buttons working in bistable mode. This means that each consecutive pulse supplied to the input changes the status of the specific output to opposite one. By default, input IN1 controls channel 1 (CH1), input IN2 — channel 2 (CH2), input IN3 — channel 3 (CH3) and input IN4 — channel 4 (CH4).

CAUTION: Functionality of inputs (connector type, operating mode) may be changed only using EXTA LIFE mobile app working with EFC-01 controller -see Input functionality.

6. After installing the receiver, check it for proper operation. When using EXTA LIFE system transmitters for control, you must first program them with a receiver (see Programming the transmitters). To work with the controller, the receiver must be properly paired with the controller (see Receiver registration in the EXTA LIFE system).

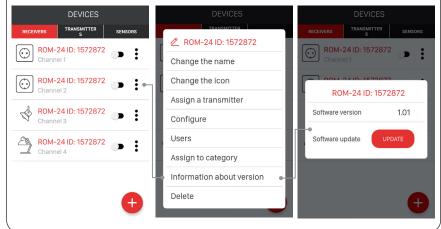
REMOTE SOFTWARE UPDATE

The ROM-24 receiver has a built-in bootloader for remote updating of software from the EXTA LIFE app. Updating is possible only for receivers paired with a controller and can be carried out by a user with administrator's rights. To perform an update, you must download the latest version of software from extalife.pl and move it to an SD card in the controller; read the manual "Updating software in EXTA LIFE receivers". The manual can be downloaded from extalife.pl.

The current software version of the ROM-24 receiver is shown on "Version information" tab. After pressing the "Update" button, you are sending information to the controller which switches the receiver into software update mode. The latest version of software is sent to the receiver from the controller. During the update, the receiver and controller are switched to service frequency and cannot be controlled. After successful update, the applicable information about is sent from receiver to the controller

If the update procedure fails for some reason, then it will be shown as a receiver with update error on the controller. The receiver loses its original functionality (which is signalled by green STATUS LED blinking continuously every 1 s). Then, you can go to "Version information" screen and restart the update process by pressing "Update" button. Pressing this button will restart the software update

CAUTION: Do not delete the receiver with an update error from the controller's resources.



WARRANTY CARD

There is 24 months guarantee on the product

- ZAMEL provides a two-year warranty for its products.
- The ZAMEL warranty does not cover: a) mechanical defects resulting from transport, loading/unloading or other circumstances b) defects resulting from incorrect installation or operation of ZAMEL products; c) defects resulting from any changes made by CUSTOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold; d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable; e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear);
- All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering
- ZAMEL will review complaints in accordance with existing regulations.;

The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.

Salesman stamp and signature, date of sale