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DESCRIPTION

The SRM-22 shutter controller is designed for controlling window shutters or other equipment driven with single-phase 230 VAC motors. It can control two shutters independently. Control can be routed wirelessly from transmitters or an EXTA LIFE controller or wired from shutter push buttons. To use wired control, use two pairs of inputs (IN1 and IN2), which are configurable using a mobile app. Inputs can operate in local or central control modes. In both cases, dual and single shutter buttons can be used. Thanks to duplex communication between the controller and the control unit the current position of the shutter, i.e. closing level is shown in the mobile app. Duplex communication also enables controller parametrisation and remote transmitter addition (without physical access to the receivers). The frame coding encryption system provides secure control which is of particular importance in the case of window shutters and garage doors. SRM-22 can be controlled using a control unit and also using the EXTA LIFE system transmitters. You can register more transmitters with a receiver to enable shutter control from several locations. The product is designed for installing in switchgears using a TH35 bar. With remote update functionality from the controller. To further enhance the controller's functionalities, there is programmable movement time for each shutter and you can define up to four favourite settings.

FEATURES

- Controlling shutters or other devices driven with single-phase 230 VAC motors.
- Independent control of two shutters/motors
- Compatible with EXTA LIFE system controller and transmitters
- Duplex transmission enables information on the current position of the shutter in the mobile app,
- Maximum load 350 W (2 A) – class AC3 per shutter,
- Programmable inputs (local or central control function),
- Single or double shutter button can be connected for local and central control,
- Programmable movement time for each shutter,
- 2 programmable "Favourite" settings for transmitters and external inputs,
- Up to 4 programmable "Favourite" settings for calling up from the app,
- 2 operating modes for work with transmitters (local / central),
- Open - stop - close control from the app + slider control.

Zamel Sp. z o.o. hereby declares that the SRM-22 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 waste.

TECHNICAL DATA

| | |
|--|---|
| Catalogue designation | SRM-22 |
| Rated supply voltage | 230 VAC |
| Rated frequency | 50 / 60 Hz |
| Rated power consumption | 0.65 W – standby |
| 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 |
| Optical signalling of transmission/programming | Yes - green STATUS LED |
| Maximum number of paired buttons* | 96 pairs for the whole controller (both shutters) |
| Shutter movement signalling | Yes - 4 red LEDs |
| Current shutter position information | Yes – in EXTA LIFE mobile app (shutter closure percentage + icon) |
| Operation modes in co-operation with EXTA LIFE system transmitters | local, central, 2 "favourite" settings |
| Operation modes in co-operation with an EXTA LIFE controller | Open, stop, close / shutter closing level in percent set using a slider, up to 4 "favourite" settings |
| Number of external outputs | 4 (2 per shutter) |
| Co-operation with shutter buttons* | Only spring-action shutter buttons, single or double buttons |
| Operation modes for external input | Local or central for the local mode and double shutter button – 2 "favourite" settings can be called up** |
| Shutter movement time*** | Programmable from 1s to 10 minutes (Default time 120 s) |
| Relay contact parameters | 4 × 5A/250VAC |
| Maximum load | 2 × 350 W (2 A) – class AC3 |
| Supported motors | Single-phase 230 VAC with limit switches or overload switches |
| Number of termination points | 12 (conductor cross-section up to 2.5 mm ²) |
| Enclosure mounting | TH35 bar |
| Operating temperature range | -10 to +55°C |
| Enclosure protection rating | IP20 |
| Dimensions | Double module (2DIN) housing 90 x 35 x 66 mm |
| Weight | 0.125 kg |

* applies to the complete controller (i.e. the buttons assigned to shutters 1 and 2) with button type configured using the EXTA LIFE mobile app

** with a single button only one "favourite" setting is called up

*** closing and opening times programmed separately

APPEARANCE

Power terminals

Input terminals (for connection of spring-action shutter buttons) shutter-1 and shutter-2

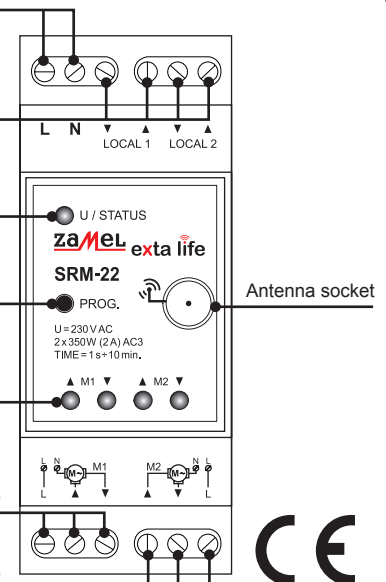
Transmit / receive signalling / status during programming operations

PROG. button - programming

LEDs for signalling number of shutter selected during programming operation and movement direction of a shutter during standard operation

Output terminals for connecting motor for shutter-1 (M1)

Output terminals for connecting motor for shutter-2 (M2)



OPERATING MODES

1. FUNCTIONS FOR CONTROL USING EXALIFE SYSTEM TRANSMITTERS

CAUTION: With the SRM-22 shutter controller to control a single shutter two buttons of the transmitter are always used. For example P-457/4 (4-button) remote allows independent control of two shutters within the SRM-22 controller.

Individual buttons on EXTA LIFE radio transmitters can be assigned for operation in two modes: local and central (see Programming buttons on EXTA LIFE radio transmitters).

LOCAL CONTROL MODE

The local control mode enables the user to stop the shutter in any position. It is designed for controlling a single shutter. In this mode, briefly pressing one of the buttons is for opening and brief pressing of the second button is for closing the shutter. If the shutter is moving, then pressing any button on the transmitter will result in stopping the shutter.

A shutter's up/down movement time is in line with the time programmed in the controller. The default movement time is 120 s. A longer press (> 2 s) on a transmitter button calls up the programmed favourite settings. Favourite settings are the defined % level of closure of the shutter. With local control you can program two favourite settings. The favourite settings are independent of the current shutter position.

CENTRAL CONTROL MODE

The central control mode enables only complete opening or closing of a single shutter or a group of shutters. In this mode, you cannot stop the shutter in any position. The central control mode is intended mainly for group control and for working with sensors. In this mode, briefly pressing one of the buttons is for opening and brief pressing of the second button is for closing the shutter. If a shutter is being opened, then pressing the button for closing will result in temporary stopping of the shutter for approx. 0.5 s and will automatically switch to the closing procedure. The situation is similar when the closing procedure is underway. A shutter's up/down movement time is in line with the time programmed in the controller. The default periods are 120 s.

2. FUNCTIONS FOR CONTROL USING EXTERNAL INPUTS

2.1 DOUBLE SHUTTER BUTTON

LOCAL CONTROL

In this mode, a brief press (<0.5 s) of the applicable buttons connected to inputs ▼, ▲ LOCAL1 / LOCAL2 results in the following actions: open, close or stop the shutter. A shutter's movement duration is in line with the time programmed on the controller (by default 120 s). The first press of the local control button causes the shutter to move in the selected direction and the second press of any local button stops the shutter. A longer (>2 s) press of applicable local control button calls up the programmed favourite settings defined as the percentage of closure for a shutter. The favourite settings are independent of the current shutter position.

CAUTION: The favourites are shared for external inputs and for radio transmitters' buttons. If SRM-22 controller has been paired with an EXTA LIFE controller then you can use the mobile app to select the movement direction for the shutter using inputs T and A.

CENTRAL CONTROL

In this mode, a brief press (<0.5 s) of the applicable buttons connected to inputs ▼, ▲ LOCAL1 / LOCAL2 results in the following actions: open and close the shutter. The shutter will be stopped after the programmed shutter movement time elapses. The default shutter movement time is 120 s. If during shutter movement in one direction, a command from central location will be issued for moving the shutter in opposite direction, then the shutter will stop first and after approx. 0.5 s the shutter will automatically start moving in the opposite direction.

CAUTION: You can configure inputs ▼, ▲ LOCAL1 / LOCAL2 for the specific shutter to work in central mode only from the EXTA LIFE mobile app working with the controller. Also from the application you can select the function, i.e. up/down shutter movement for the specific input: ▼ and A.

2.2 SINGLE SHUTTER BUTTON

LOCAL CONTROL

In this mode, short presses (<0.5 s) of the shutter button cause the SRM-22 controller to perform the following operations: open, close or stop the shutter. Shutter movement time is in line with the time programmed on the controller. The default time is 120 s. Shutter movement is carried out in the following sequence: open - stop - close. A longer press of the button (>2 s) will call up the programmed setting defined percentage of shutter closure. With the single button you can call up only one favourite setting (programmed as "setting_1").

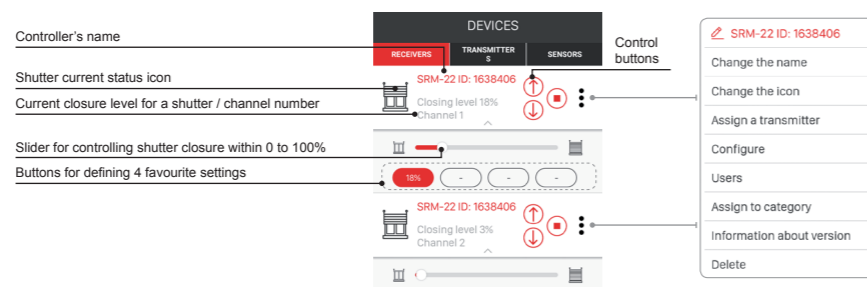
CENTRAL CONTROL

In this mode, short presses (<0.5 s) of shutter button cause the SRM-22 controller perform only the following operations: open, close. Shutter movement time is in line with the time programmed in the controller. The default time is 120 s. Shutter movement is carried out in the following sequence: open - stop for 0.5 s - close.

CAUTION: In order to connect a single shutter button you must configure inputs from mobile app working with EXTA LIFE controller. Select the following input type: 'single shutter button' and select the operating mode as 'Local' or 'Central'. If you select input type "Single shutter button" in mobile app, then you can connect the button to input T or A (they operate in the same way). You can also connect a single button using hardware method by connecting inputs T and A for the specific shutter (then it is required to reactivate supply voltage).

3. FUNCTIONS WHEN CONTROLLED FROM THE EXTA LIFE MOBILE APP

- You will be able to control the SRM-22 receiver from the mobile app only if the receiver has been paired with an EXTA LIFE controller (see REGISTRATION (PAIRING) AN SRM-22 RECEIVER WITH EXTA LIFE SYSTEM).
- The controller is shown in the list of receivers in the EXTA LIFE system right after the pairing and can be controlled.



- Clicking this button opens the shutter. This button is lit up during opening. Opening time is in line with the time configured on the receiver. To update the shutter state, refresh the screen of the device, i.e. move your finger downwards on the screen.
- Clicking button closes the shutter. This button is lit up during closing. Closing time is in line with the time configured on the receiver. To update the shutter state, refresh the screen of the device, i.e. move your finger downwards on the screen.
- If the shutter is being opened or closed, pressing or will stop shutter movement. After the shutter stops, the button light goes off.
- The current level of closure of the shutter is shown as percentage in the app. The information is updated after the shutter stops; to update the shutter position information, refresh the screen by entering the device screen or by dragging the screen down. The shutter position is also shown with an icon. There are three icons: shutter fully open, shutter fully closed and shutter in mid position.
- When using slider to control the shutter, slide it in either direction to adjust the shutter closing percentage. The value adjusted on the slider is sent to the device after releasing the slider. Then, the shutter starts moving until the desired position is reached.

FAVOURITE POSITIONS:

- You can use the mobile app to define favourite shutter positions for each shutter registered with SRM-22 controller; a favourite position is a percentage of closure for a shutter. You can use "favourite" buttons in the app to call out the favourite positions.
- At first, the settings are not defined. This is shown with a "-" inside the button.

- To assign a Favourite position to a specific button: set the shutter closure rate with the slider, wait until the shutter reaches the set position, refresh the screen and then press and hold the selected Favourite field. After successful assignment, the defined value is shown inside the field.
- After a short press of the defined favourite button it will be highlighted and the value showing closure rate will be sent to the applicable controller. The shutter will move to the chosen position. The app slider will also move to the position corresponding to the favourite position selected. After the slider reaches the correct position, the favourite button goes off.
- Favourite positions in the app are assigned to the specific shutter in the SRM-22 controller. These positions may differ from the positions programmed in radio transmitters and cable inputs in local mode.
- Favourite positions may be declared only by users with administrator rights. Standard users cannot change nor edit those values.

PROGRAMMING EXTA LIFE RADIO TRANSMITTERS

- The status of the programming process is signalled using STATUS LED.
- The STATUS LED signals also receiving / transmitting radio frames – brief green light.
- Successful completion of the programming/clearing operation is indicated by a series of quick blinks of green STATUS LED.

CAUTION: In the SRM-22 receiver the user individually programs radio buttons to work in local mode and central mode. In total, in the memory of one receiver during consecutive steps of programming process you can enter up to 96 buttons (for example 48 pairs in local mode and 48 pairs in central mode). This enables great flexibility during programming and then during control. A receiver will react only to the buttons which have been entered during programming. 96 pairs are distributed in the complete SRM-22 controller (for both shutters).

- To use central mode for several shutter controllers (simultaneous closing / opening of several shutters), program the same transmitter buttons in central mode for each receiver/channel simultaneously.
- The buttons may be assigned to the SRM-22 receiver directly using the PROG button. (Requires access to the receiver) or remotely (without access to the receiver) using the mobile app and an EXTA LIFE controller.

1. DIRECT PROGRAMMING USING PROG BUTTON

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

Using P-457/2 two button remote

ASSIGNING BUTTONS IN LOCAL MODE

- Briefly (1 s) press the PROG button on the receiver – STATUS LED will light up and diodes ▼, ▲ assigned to M1 motor will light up.
- From the moment of activation of diodes ▼, ▲ assigned to the M1 motor, within less than 2 s briefly press PROG and select the number of shutter you want to assign buttons to. Shutter selection is signalled by activation of LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
- After selecting the shutter, wait approx. 2 s for STATUS LED to go off.
- After the STATUS LED goes off, within less than 5 s briefly press the button you want to use for local opening of the shutter, e.g. "1".
- The STATUS LED will blink and go off again.
- Within less than 5 s briefly press the button to be assigned for local closing of the shutter, for example "2".
- Correct assignment of the buttons is signalled with several quick blinks of the STATUS LED and going off of ▼, ▲ diodes associated with the specific shutter.

ASSIGNING BUTTONS IN CENTRAL MODE

- Briefly (1 s) press the PROG button on the receiver – STATUS LED will light up and diodes ▼, ▲ assigned to M1 motor will light up.
- From the moment of activation of diodes ▼, ▲ assigned to the M1 motor, within less than 2 s briefly press PROG and select the number of shutter you want to assign buttons to. Shutter selection is signalled by LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
- After selecting the shutter, wait approx. 2 s for STATUS LED to go off.
- After the STATUS LED goes off, wait approx. 5 s until the STATUS LED blinks.
- After the STATUS LED blinks, within less than 5 s briefly press the button you want to assign to central opening of shutter, for example "1".
- The STATUS LED will blink and go off again.
- Within less than 5 s shortly press the button you want to assign to central closing of shutter, e.g. "2".
- Correct assignment of the buttons is signalled with several quick blinks of the STATUS LED and going off of ▼, ▲ LEDs associated with the specific shutter.

2. REMOTE PROGRAMMING OF TRANSMITTERS USING EXTA LIFE APPLICATION

The remote programming function for transmitters enables assigning the transmitter's buttons to the selected SRM-22 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.

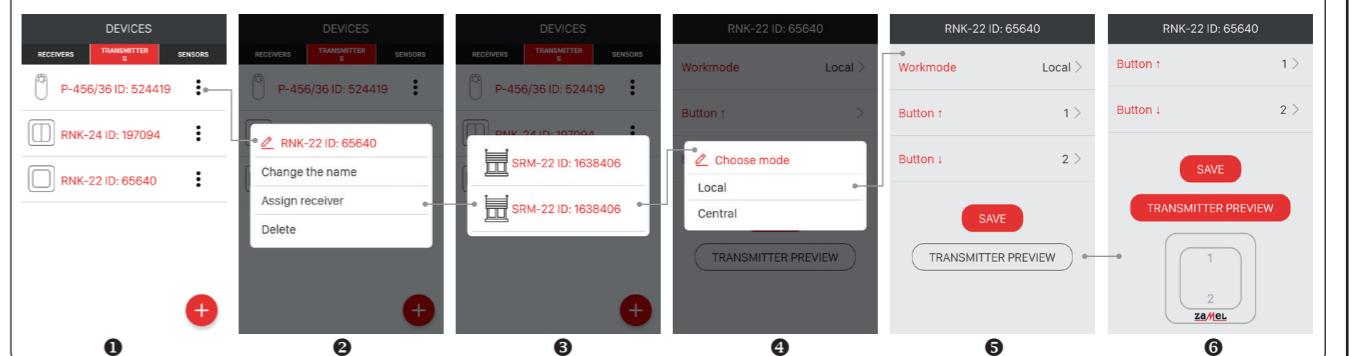
Requirements for remote programming of transmitters with an SRM-22 receiver:

- 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,
- Receivers are be within the controller's range,
- The transmitters to be remotely assigned to receivers must be also paired with the controller,
- During one step only one transmitter can be remotely assigned to an SRM-22 receiver.

To remotely assign selected buttons on a transmitter to the specific SRM-22 controller, do the following:

- Pair the selected SRM-22 receiver with controller.
- Pair the transmitter with the controller, this applies to the transmitter whose buttons you want to remotely assign to the receiver.
- On the transmitter select "Assign receiver" .
- From the list of all paired receivers select the SRM-22 receiver to which you want to remotely assign the transmitter . CAUTION: In the application, the SRM-22 controller is shown as two shutters – depending on the needs select "shutter 1" or "shutter 2".
- In the "Operating Mode" field set the mode for use by the transmitter working with the receiver . The modes available with the SRM-22 are: local or central.
- Select the transmitter's buttons for remote assignment to the receiver . The user must always declare the button to be used for opening function and a button for closing the specific shutter. Pressing "Transmitter preview" button brings up a transmitter's view with button numbers shown .
- 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 a receiver can be also executed from the receiver level. In this situation, select "Assign transmitter" from the receiver's editing menu.



PROGRAMMING THE TIME OF MOVEMENT FOR SHUTTERS

CAUTION: You must correctly program the opening and closing times when controlling the shutter from the mobile app or when defining the "favourite" positions. These values are used for calculating percentage values defined as the degree of closure of the shutter.

- A 2-second offset is added to the programmed periods for efficient opening / closing of shutters to account for different operational speeds of motors. That offset is not included during calculation of percentage values.
- Closing and opening times may be programmed for 1 s to 10 minutes. You can configure time from the receiver (using the PROG button) or remotely using EXTA LIFE mobile app working with the controller.

1. DIRECT PROGRAMMING OF TIME USING THE PROG BUTTON

To properly program time for opening and closing, set the shutter in the extreme top position, i.e. fully open.

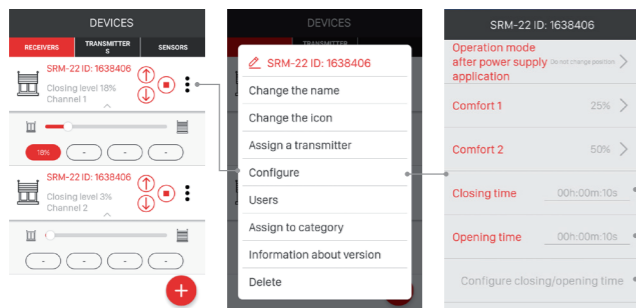
1. Briefly (1 s) press the PROG button on the receiver – the STATUS LED will light up and ▼, ▲ LEDs assigned to motor M1 will light up.
2. From the moment of activation of LEDs: ▼, ▲ assigned to the M1 motor, within less than 2 s briefly press PROG and select the number of shutter you want to assign opening and closing time. Shutter selection is signalled by activation of LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
3. After selecting the shutter, wait approx. 2 s for the STATUS LED to go off.
4. After the STATUS LED goes off, wait for approx. 10 s. After the second quick blink of the STATUS LED, briefly press PROG.
5. The shutter will start closing and the STATUS LED will start blinking at the same time every 1 s which signals the measuring of "closing time". When the shutter reaches the extreme bottom position, press the PROG button again. The shutter will start opening and the opening time will be programmed. When the shutter reaches the extreme upper position, press PROG again. This is the end of programming procedure for opening / closing time. These time periods are stored in the controller.
6. Correct programming of the time values is signalled with several quick blinks of the STATUS LED and going off of ▼, ▲ diodes associated with the specific shutter.

2. REMOTE PROGRAMMING OF TIME USING EXTA LIFE APPLICATION

- You can configure the opening and closing time for shutters controlled by the SRM-22 controller from the mobile app. To do so, first pair the SRM-22 receiver with the EXTA LIFE system controller. To configure the time periods from the editing menu on the receiver, select „Configure“. Currently used opening and closing time read from the SRM-22 controller for the shutter are defined by the parameters „Closing time“ and „Opening time“. You can manually change these values in the range from 1 second to 10 minutes.
- The opening / closing time can be also programmed using the mobile application using the „Configure closing / opening time“. This is done in a similar way as with the PROG button.

To program time for opening and closing, set the shutter in the extreme top position, i.e. fully open.

1. Briefly press the „Configure opening / closing time“ button.
2. A screen will be displayed to configure opening / closing time values. During the programming procedure, messages are displayed indicating the status of the programming.
3. Press the START button and the shutter will start closing and the STATUS LED will start blinking at the same time every 1 s which signals measuring of the closing time. When the shutter reaches the extreme bottom position, press the START button again. The shutter will start opening and the opening time will be programmed. When the shutter reaches the extreme top position, press the START button again. This is the end of programming procedure for opening / closing time. The times are stored in the controller and brought up to the configuration screen for particular channel in the SRM-22.



- Currently set closing / opening time with manual entering option
- Available values from 1 s to 10 min
- Button for configuring closing / opening time

PROGRAMMING FAVOURITE POSITIONS FOR TRANSMITTERS AND INPUTS IN1, IN2

- For radio transmitters and inputs ▼, ▲ (LOCAL 1 or LOCAL 2), the operator can program two favourite positions known as percent of closure of the shutter. The positions are shared between all transmitters assigned to the specific shutter in local mode and inputs ▼, ▲ working in local mode. The favourite positions can be called out independently of the shutter position.
- To call out the first favourite position, press and hold longer (>2 s) the transmitter's button assigned for upward shutter movement (the button assigned in local mode) or the button connected to input ▲ for the shutter.
- To call out the second favourite position, press and hold for longer (>2 s) the transmitter's button controlling the shutter's downward movement (the button assigned in local mode) or the button connected to input ▼ of the shutter.

CAUTION: Performing several calls of favourite settings with the shutter starting movement from intermediate positions could result in loss of calibration. Re-calibration is performed automatically after complete opening or closing of the shutter.

DIRECT PROGRAMMING OF FAVOURITE SETTINGS USING PROG BUTTON

- Independently from the radio transmitter, favourite shutter positions are always programmed using buttons 1 and 2.
- To program the favourite positions, place the shutter in one of the extreme positions (top or bottom).

CONFIGURING THE FIRST FAVOURITE POSITION

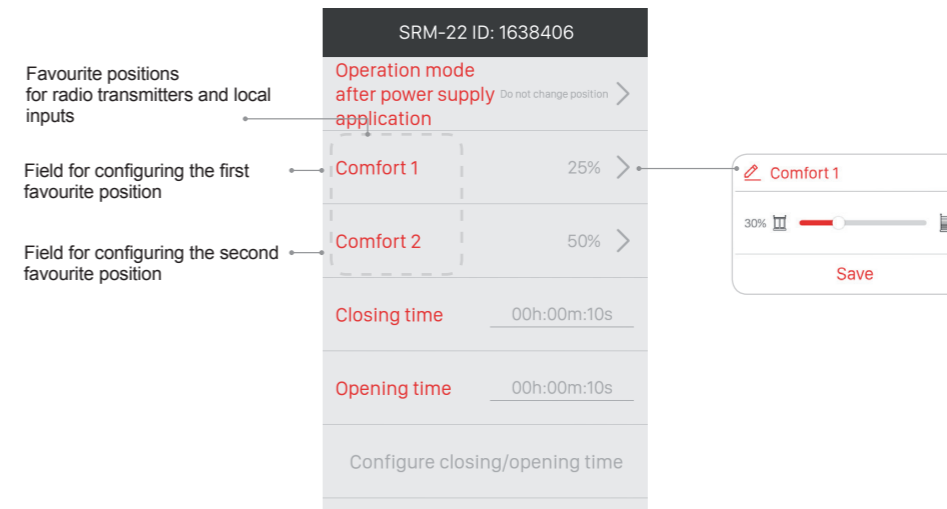
1. Open or close the shutter completely.
2. Briefly (1 s) press the PROG button on the receiver – the STATUS LED will light up and the ▼, ▲ LEDs assigned to motor M1 will light up.
3. From the moment of activation of LEDs: ▼, ▲ assigned to the M1 motor, within less than 2 s briefly press PROG and select the number of shutter you want to assign opening and closing time. Shutter selection is signalled by activation of LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
4. After selecting the shutter, wait approx. 2 s for the STATUS LED to go off.
5. After the STATUS LED goes off, wait for approx. 15 s. After the third quick blink of the STATUS LED, in less than 5 s briefly press PROG.
6. The shutter will begin moving up or down depending on what position it was at the start of movement. Once the shutter reaches the position you want to program as the first favourite setting, press the "1" button on the transmitter or the local button connected to input ▲ (by default: shutter up). The shutter will stop.
7. Correct programming of the time values is signalled with several quick blinks of the STATUS LED and going off of the ▼, ▲ diodes associated with the specific shutter.

CONFIGURING THE SECOND FAVOURITE POSITION

1. Open or close the shutter completely.
2. Briefly (1 s) press the PROG button on the receiver – the STATUS LED will light up and the ▼, ▲ LEDs assigned to motor M1 will light up.
3. From the moment of activation of ▼, ▲ LEDs assigned to the M1 motor, within less than 2 s briefly press PROG and select the number of shutter you want to assign opening and closing time. Shutter selection is signalled by activation of the applicable ▼, ▲ LEDs: M1 for shutter 1 and M2 for shutter 2, respectively.
4. After selecting the shutter, wait approx. 2 s for STATUS LED to go off.
5. After the STATUS LED goes off, wait for approx. 15 s. After the third quick blink of the STATUS LED, in less than 5 s briefly press PROG.
6. The shutter will begin moving up or down depending on the position it was in when the movement started. After reaching the position you want to program as the second favourite setting, press „2“ on the controller or local button connected to input ▼ (by default: shutter down). The shutter will stop.
7. Correct programming of the time values is signalled with several quick blinks of the STATUS LED in green and going off of the LEDs associated with the specific shutter.

CHANGING FAVOURITE POSITIONS USING EXTA LIFE APPLICATION

You can set favourite positions for radio transmitters and local inputs using EXTA LIFE app, having first paired the SRM-22 with the controller. To do so, select „Configure“ from the receiver's editing menu. You will be transferred to configuration screen where you can set basic parameters for the specific shutter controller.



To change the favourite position, click the correct field to open the slider. Using the slider, set the new value for the favourite position and press "Save changes". To save your new configuration in the SRM-22 controller, press „Save“.

OPERATING CONSIDERATIONS

SRM-22 RECEIVER FUNCTIONS:

1. The controller allows independent control of two shutters.
2. Each shutter connected to SRM-22 can be controlled simultaneously using the following methods:
 - 2.1 EXTA LIFE system transmitters / external inputs
 - local mode control
 - central mode control
 - calling out up to 2 favourite settings
 - with external inputs: control using single or double buttons.
 - 2.2 EXTA LIFE mobile app paired with the controller
 - close / open / stop control using control buttons
 - using the slider to set the percent value for closing the shutter
 - calling out max. 4 favourite settings.
3. The current shutter position is shown in the mobile app (shutter closure % + icon). There are icons for 3 shutter states: fully open, fully closed, intermediate position.
4. More EXTA LIFE buttons for transmitters may be assigned to a single controller – up to 96 pairs (e.g. 48 receivers in local mode). The number of buttons refers to the complete controller (both shutters).
5. Transmitters' buttons can be assigned to the SRM-22 controller using the PROG button and "remotely" using the mobile app (without access to the controller).
6. Several SRM-22 controllers can work with one transmitter – this allows creating shutter groups (central mode is the recommended operating mode then) or independent control of shutter from several locations.
7. The shutter controller can be paired with only one EXTA LIFE controller (after pairing the controller is not visible to other controllers).
8. The buttons assigned to the shutter in the SRM-22 controller may be removed selectively.
9. It is also possible to delete all buttons stored in the controller's memory by performing a factory reset. Buttons assigned to both shutters are deleted then.
10. Basic parameters for the SRM-22 are configured from the app.
11. You can use the mobile app to perform a remote software update in the controller (for this, you must connect a USB 2.0 memory stick with the latest SRM-22 software version to the controller).

Default (factory) settings for a SRM-22 – shared between both shutters (shutter 1 and shutter 2):

| Parameter | Default settings | Configuration range |
|--|---|--|
| Shutter behaviour after activation of supply voltage | Shutter position does not change | Yes – mobile app |
| Input type LOCAL 1 and LOCAL 2 | Spring-action, double shutter buttons | Yes – mobile app or physical connection of inputs ▼ and ▲ for specific shutter |
| Operating mode for inputs LOCAL 1 LOCAL 2 | Local control ▼ – shutter down ▲ – shutter up | Yes – mobile app |
| Default shutter movement time | 120 s | Yes – mobile app or PROG button |

CLEARING ALL CONTROLLER MEMORY

After clearing the SRM-22 receiver's memory, all transmitters' buttons are removed from the memory. Clearing the memory includes unpairing (removal) of the receiver from an EXTA LIFE controller. The programmed time values for shutter movements (opening/closing) adopt the default value of 120 s. Also, the favourite positions saved in the controller are deleted. The deleting procedure applies to both channels of SRM-22 simultaneously.

To completely clear the controller's memory, do the following:

1. Press the PROG button for approximately 5 s until STATUS LED lights up.
2. After the ▼, ▲ LEDs assigned to M1 motor light up, release PROG.
3. Wait approx. 2 s until the STATUS diode goes off.
4. After the STATUS LED goes off, again briefly (<1 s) press the PROG button and wait a few seconds until the STATUS LED will quickly blink which means erasing the memory.
5. After completion of the clearing procedure, the device will be reset which is indicated by flashing STATUS LED by approximately 5 s. After that, the controller is ready for operation.

SELECTIVE DELETION OF THE CONTROLLER'S MEMORY

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

SELECTIVE DELETION OF A BUTTON PAIR STORED IN THE RECEIVER IN LOCAL MODE USING THE PROG BUTTON

1. Press the PROG button on the receiver and hold it for approx. 5 s – STATUS LED will go on.
2. After 5 s, the ▼, ▲ LEDs assigned to M1 motor will light up. Then, for less than 2 seconds briefly press the PROG button to select shutter number for which you want to selectively delete buttons.
3. Shutter selection is signalled by activation of LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
4. After selecting the shutter, wait approx. 2 s for STATUS LED to go off.
5. Press any button assigned to the shutter as a local button.
6. Correct removal of the button is signalled with several quick blinks of the STATUS LED in green and going off of ▼, ▲ diodes associated with the specific shutter.

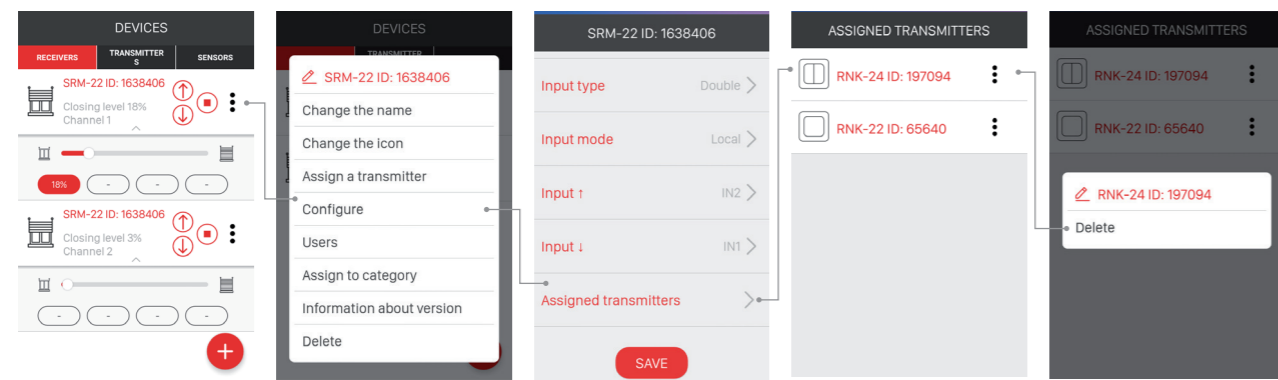
SELECTIVE DELETION OF A BUTTON PAIR STORED IN CENTRAL MODE USING THE PROG BUTTON

1. Press PROG button on the receiver and hold it for approx. 5 s – STATUS LED will go on.
2. After 5 s, ▼, ▲ LEDs assigned to M1 motor will light up. Then, for less than 2 seconds briefly press the PROG button to select shutter number for which you want to selectively delete buttons.
3. Shutter selection is signalled by activation of LEDs ▼, ▲ M1 for shutter 1 and M2 for shutter 2, respectively.
4. After selecting the shutter, wait approx. 2 s for STATUS LED to go off. After that, wait approx. 5 s until the STATUS LED blinks.
5. Press any button assigned to the shutter as a central button.
6. Correct removal of the button is signalled with several quick blinks of the STATUS LED in green and going off of the ▼, ▲ diodes associated with the specific shutter.

REMOTE DELETION OF TRANSMITTERS USING EXTA LIFE APP

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 editing menu, select "Configure" (1).
2. At the configuration screen, press the "Assigned transmitters" (2) to download the list of transmitters currently stored in the device's memory (3).
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).
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.

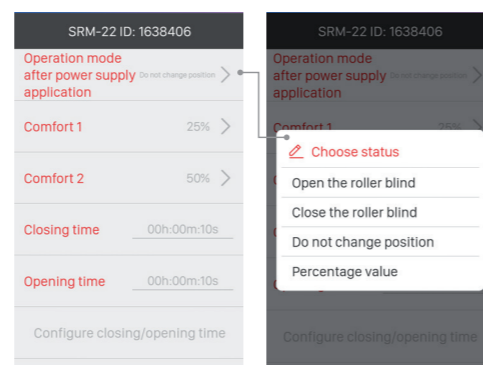


OUTPUT MODE CONFIGURATION AFTER POWER SUPPLY SWITCH ON

With the SRM-22 receiver, you can configure behaviour of the shutter after applying supply voltage. By default, none of the shutters change position. Possible states after applying power:

- open the shutter
- close the shutter
- shutter position does not change
- percentage – after activation of supply power, the shutter will move to the position corresponding to the defined percentage value, defined as the degree of closure of the shutter.

CAUTION! If the supply voltage is lost during shutter movement, then after reapplying the supply voltage, you must force several movements of the shutter to make it reach one of the extreme positions (top or down).



INPUT FUNCTIONALITY ▲, ▼ (LOCAL 1, LOCAL 2)

The inputs ▼ and ▲ are provided for wired control of SRM-22. LOCAL 1 input is provided for controlling the first shutter, and LOCAL 2 is for controlling the second shutter.

The inputs are fully configurable from the EXTA LIFE mobile app. The configuration includes the following items:

- type of shutter button connected to the controller's input (single, double)
- Inputs operating mode (local, central),
- shutter movement direction after triggering specific input (only for the double shutter button).

Default settings:

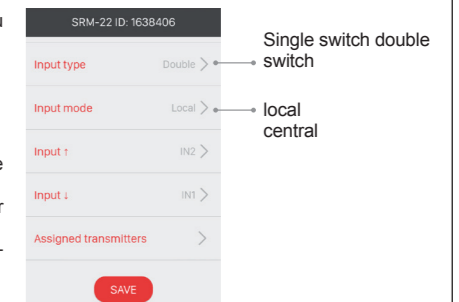
- Switch type: double shutter button
- Operating mode: local control
- Input ▼ function: closing the shutter
- Input ▲ function: opening the shutter

Inputs ▼ and ▲ are triggered only using "L" line. The basic function to operate requires supplying short impulses (<0.5 s). If the inputs work in local mode, then longer (> 2 s) application of voltage to the input will call out one of the two "favourite" positions (assigned to the shutter positions). With a single button, only one favourite setting will be called out (programmed as "Favorite_1").

If the inputs have been configured to work with single buttons under control of the mobile app, then you can connect the switch to input ▼ or ▲ (their operation is equivalent).

To change input configuration:

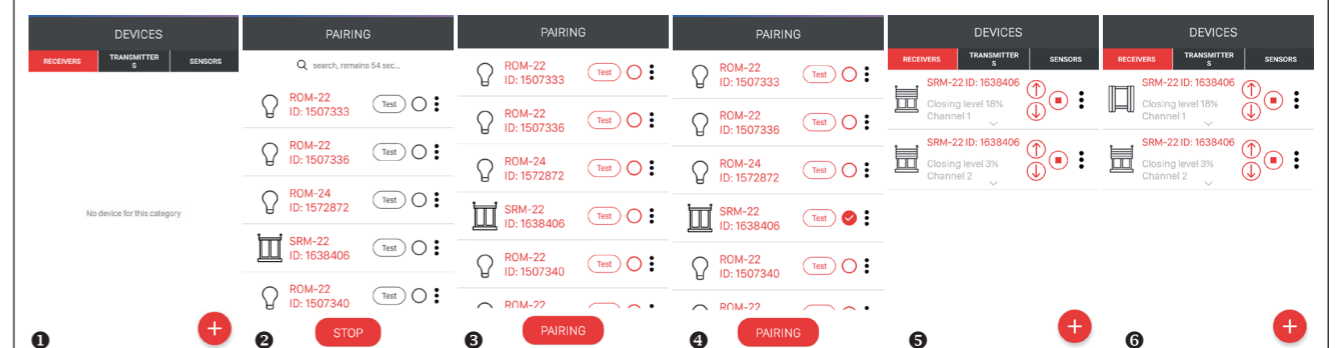
1. Launch the application and open the Devices screen.
2. From the editing menu for the channel (shutter) in the SRM-22 select 'Configure'.
3. On the configuration screen:
 - a. in "Input type" field, select the switch type connected to inputs ▼, ▲. Available selections: "Double switch" or "Single switch".
 - b. in the "Input mode", select operating mode for inputs ▼ and ▲. You can select "Local mode" or "Central mode".
 - c. If the input selected is double shutter switch, then you can also select the input to be used for closing and input for opening.
4. After configuring all the settings press "Save" to save the configuration in the receiver.



REGISTERING (PAIRING) THE SRM-22 CONTROLLER IN EXTA LIFE SYSTEM

To register the SRM-22 controller 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 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 default icon and name, which is the receiver model (SRM-22) with its six-digit serial ID in the suffix.
3. After the completion of the search process, press the TEST button to quickly locate the receiver (by pressing button alternately TEST, you will make both shutters move up / down). By selecting the boxes next to the "TEST" button you can select receivers to pair with the EXTA LIFE controller. You can select more than one receiver with the selection boxes.
4. Press PAIR to pair the selected receivers. The selected receivers will be recorded in the system and appear in the Receivers tab.
5. The SRM-22 receiver after pairing, is shown in the system as two shutters ("shutter 1" and "shutter 2").
6. The default icon is assigned to the paired SRM-22 receiver.
7. The receivers after pairing can be controlled right away using buttons in the application. A receiver's state is shown in % using "Closure level" parameter. By default, the control is executed in close - stop - open mode. Shutter movement time is in line with the time configured in the SRM-22 controller.
8. You can pair one receiver at a time; once PAIR has been pressed, you can assign a new name to the receiver. When pairing more than one receiver at the same time, they will be saved under their default names.
9. When paired, each channel in the SRM-22 receiver can be assigned with an individual name and icon from the database of available icons.
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).



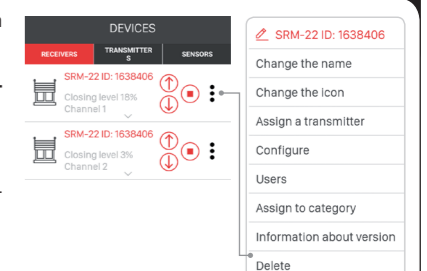
DELETING (UNPAIRING) A SRM-22 RECEIVER FROM EXTA LIFE SYSTEM

Each SRM-22 receiver registered in the system may be removed. Removal is the "unpairing" of a receiver from the controller's assets.

CAUTION: Both channels (shutters) associated with receiver SRM-22 are always deleted. It is not possible to delete only one channel.

To remove a receiver from the EXTA LIFE system:

1. Launch the EXTA LIFE mobile app and open the Devices screen.
2. Select the Receivers tab and then from the editing menu for the channel (shutter) associated with the SRM-22 receiver and select "Remove".
3. The receiver after removal is automatically deleted from the list of paired receivers.

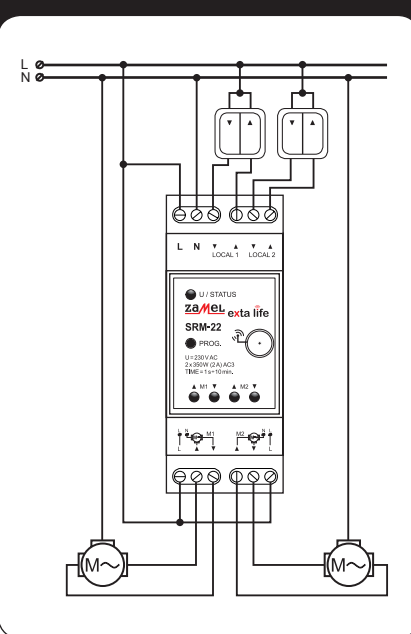


INSTALLATION

The SRM-22 controller is designed for installation in switch cabinets on TH35 bar. 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 over current 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 TH bar in the switch-gear.
5. Activate the supply circuit and check for correct operation.

CONNECTION



CAUTION

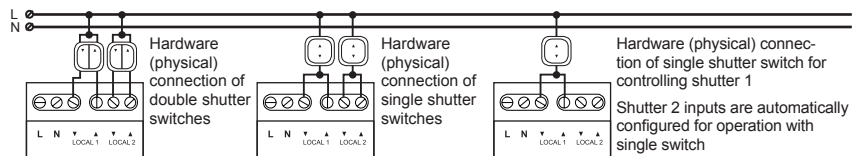
Connect the device to single-phase mains, according to applicable standards. The connection method is shown in this manual. The activities related to the installation, connection and adjustment should be performed by qualified electricians, familiar with the user manual and functions of the device. Removing 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, 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.

NOTES

1. The controller works with 230 VAC single-phase motors with limit switches or overload switches. Up to two motors can be connected to the controller. Do not connect more than one motor to a single output on the SRM-22. You must observe maximum rated output load — 350 W (2 A) for loads in class AC3.
2. It is not recommended to install drivers in metal switch gears due to the fact that metallic material has very strong dampening features of radio waves which could result in a significant reduction of range.
3. It is recommended that the shutter connected to the specific output of the controller during installation and programming be in the extreme position (fully opened or closed). If not, after programming the remote or pairing a control unit with the controller, it is necessary to make several shutter movements to place it in the extreme position (top or down).
4. You can use inputs of SRM-22 controller to connect spring-action shutter switch for wired control. By default, the controller works with double spring-action shutter switches. In order to connect single switches, connect inputs ▼ and ▲ assigned to the shutter or using mobile application set "Single shutter switch" (then you can connect the switch to input ▼ or ▲ to the shutter).

CAUTION: If you connect input terminals ▼, ▲ for the shutter to connect a single switch, you must reapply power supply to the SRM-22.

By connecting the input terminals of one shutter, the inputs of the second shutter will automatically start operating as inputs for working with single switches (after physically connecting the inputs, you cannot have one shutter controlled with single shutter switch and the second with double switch). Such switch arrangement is possible only when inputs are configured from mobile app working with EXTA LIFE controller.



5. 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.
6. The SRM-22 controller is designed for indoor installation. In case of outdoor installation, place the receiver in an additional sealing box and efficiently seal against water penetration.
7. After installing the SRM-22 controller, 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). Local inputs in default operating mode are immediately ready to use.

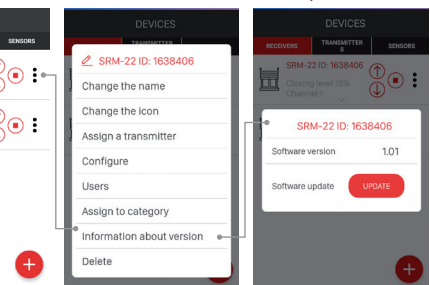
REMOTE SOFTWARE UPDATE

The SRM-22 receiver has a built-in bootloader for remote updating of software from EXTA LIFE app. Updating is possible only for receivers paired with controller and can be carried out by the user with administrator's rights. To perform 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 SRM-22 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 a successful update, the applicable information about is sent from receiver to the controller and signalled in mobile app.

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 the green STATUS LED blinking continuously every 1 s). Then, selecting "Version information" in the app for the receiver, then it will be possible to repeat the update process.

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

Salesman stamp and signature, date of sale

1. ZAMEL provides a two-year warranty for its products.
2. 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);
3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect;
4. ZAMEL will review complaints in accordance with existing regulations;
5. The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
6. 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.