FAKRO®

ORIGINAL USER MANUAL

Remote Control Z-Wave

Z-WAVE

ZRG3

Dear Sir/Madam! Thank you for purchasing the product from FAKRO. We do hope that it will meet your expectations. To ensure appropriate functioning of the product, please peruse this User Manual.

NC 893-GB ZRG3 19.12.09 FAKRO KB2044

http://www.fakro.com/download/film-installation-instructions/roof-windows/

CE

REMOTE CONTROL DESCRIPTION

The ZRG3 is designed for the remote control of devices compatible with the Z-Wave standard. The remote control enables to operate up to 5 devices in each of 3 groups (a total of 15 devices). The currently selected group is marked with one of LEDs: D1, D2 or D3. The ZRG3 remote control can act as PRIMARY and SECONDARY.

ℹ PRIMARY remote control – used to operate devices. It can change Z-Wave network settings, add and remove devices. Only one PRIMARY remote control can be in one Z-Wave network.

ℹ SECONDRY remote control – used only to operate devices. Many SECONDARY remote controls can be in one Z-Wave network.

TECHNICAL SPECIFICATION

Power supply: 3,7V, 110mAh – LiPo	**Radio protocol:** Z-Wave
Reach: Up to 20m in a building	**Frequency:** EU – 868,4 MHz
Working temperature: 0-40°C	AS/NZ – 921,4 MHz US/Canada – 908,4 MHz
Dimensions: 49/44/14 mm	RU – 869 MHz (depending on version)

REMOTE CONTROL STRUCTURE

D1 D2 D3

① Remote control hanging cord
② D1, D2, D3 – LEDs signaling selected group or selected programming function
③ Backlight indicates programming status, correctness of performed procedure and battery status
④ UP – Navigation, control button
⑤ LEFT – Navigation button
⑥ STOP – Stop, accept button
⑦ RIGHT – Navigation button
⑧ DOWN – Navigation, control button

BATTERY CONNECTION

Before running the remote control for the first time, connect the battery plug with the socket located on the PCB.

LOADING

The remote control should be charged using a 5V DC charger with a type B micro USB cable. The charging current of the charger should not be less than 500mA. The full charging process takes about 2 hours.

CONTROL

CONTROL MODES

ℹ **SHORT press of control button** (shorter than 0.5 sec.) causes the action to reach end position.

ℹ **LONG press of control button** (longer than 0.5 sec.) causes the action until releasing the button.

ℹ **Pressing STOP button** stops the action.

DEVICE CONTROL

If you want to control devices independently of each other, they must be assigned to separate groups. Up to 3 devices can be controlled independently.

Using LEFT / RIGHT buttons select group (D1, D2 or D3) which you want to control.

Using UP / DOWN buttons control the group (devices).

Stop the action using STOP button.

ADD DEVICE (QUICK START)

This function allows you to add the device to the Z-Wave network, while assigning it to selected group.

Hold simultaneously UP and STOP buttons until GREEN backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select D1 LED.

Using LEFT / RIGHT buttons select group (D1, D2 or D3) to which you want to assign the device.

Accept using STOP button.

Within 12 seconds enter the device being added into programming mode*.

✱ **Programming mode in FAKRO devices is reached by pressing programming button "P".**
Entering devices of other manufacturers to programming mode – see their user manuals.

Procedure performed correctly. GREEN backlight is on for a while and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1,2 or 3.

ADD DEVICE TO NETWORK

This function allows you to add devices to the network without adding them to group. Once this procedure is completed, add devices to group (page 7). Using ADD DEVICE TO NETWORK you can also add another secondary remote controls.

Hold simultaneously UP and STOP buttons until GREEN backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select D3 LED.

Accept using STOP button.

Within 12 seconds enter the device being added into programming mode.

If instead of the device you add another remote control, run ASSIGN AS SECONDARY function. The ZRG3 remote control – page 10. Remote control of other type – see its user manual.

Procedure performed correctly. GREEN backlight is on for a while and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1 or 2.

ADD DEVICE TO GROUP

This function allows to add the device to up to 3 groups. Maximum 5 devices can be added to each group.
Only those devices can be added to the group which have already been added to the network.

Hold simultaneously UP and STOP buttons until GREEN backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select D2 LED.

Using LEFT / RIGHT buttons select group (D1, D2 or D3) to which you want to assign the device.

Accept using STOP button.

Within 12 seconds enter the device being added into programming mode.

Procedure performed correctly. GREEN backlight is on for a while and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1 or 3.
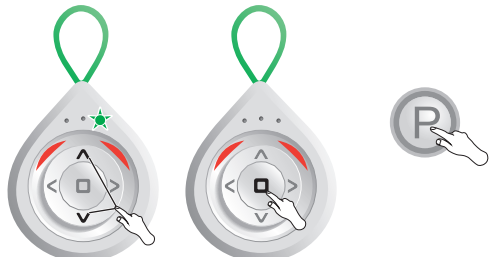
REMOVE DEVICE FROM NETWORK

Devices can be removed from the Z-Wave network only using PRIMARY remote controls.

Hold simultaneously DOWN and STOP buttons until RED backlight is on and D1 LED starts blinking.
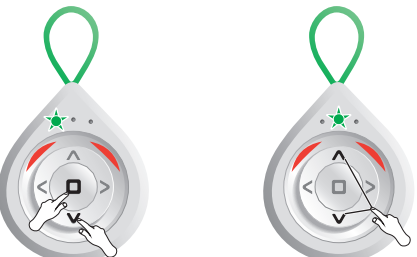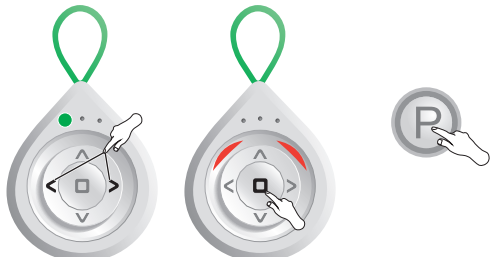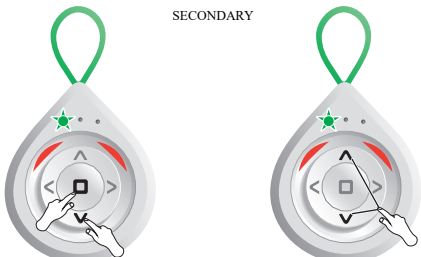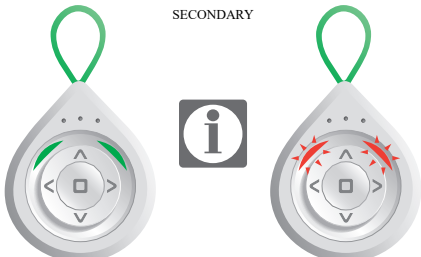
Using UP, DOWN buttons select D3 LED.

Accept using STOP button.

Within 12 seconds enter the device being added into programming mode.

Procedure performed correctly. RED backlight changes into GREEN backlight and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1 or 4.

REMOVE DEVICE FROM GROUP

This function allows to remove the device from the group without removing from the Z-Wave network. The device can be added again to the group of any remote control in the same network.

Hold simultaneously DOWN and STOP buttons until RED backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select D2 LED.

Using LEFT / RIGHT buttons select group (D1, D2 or D3) from which you want to remove the device.

Accept using STOP button.

Within 12 seconds enter the device being added into programming mode.

Procedure performed correctly. RED backlight changes into GREEN backlight and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1.

ADD DEVICE TO GROUP – page 7.

ASSIGN ZRG3 AS SECONDARY

By adding another remote control to common Z-Wave network you can control the same devices using different controllers. Controllers can be of any type, e.g. remote control, Z-Wave gateway module. Devices must be added to selected group (page 7) in order to be controlled by SECONDARY remote control.

SECONDARY

Hold simultaneously DOWN and STOP buttons until RED backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select D1 LED.

SECONDARY

Accept using STOP button.

Within 60 seconds run on PRIMARY remote control ADD DEVICE TO NETWORK.
ZRG3 remote control – page 6.
Remote control of other type – see its user manual.

SECONDARY

Procedure performed correctly. RED backlight changes into GREEN backlight and then goes off.

Error. RED backlight flashes 3 times. Repeat procedure or see page 13, point 1 or 5.

RESET REMOTE CONTROL

PRIMARY REMOTE CONTROL RESET – It removes all information about the network, groups, etc. Controlling devices is possible only after all devices have been removed (page 8) and added again (page 5 or 6 and 7).
SECONDARY REMOTE CONTROL RESET – It removes all information about networks, groups, etc. Controlling devices is possible only after SECONDARY remote control has been assigned to the network again (page 10) and devices have been added to groups (page 7).

Hold simultaneously DOWN and STOP buttons until RED backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select all LEDs (D1, D2, D3).

Accept using STOP button.

Procedure performed correctly. RED backlight changes to GREEN backlight and then goes off.

LISTENING MODE

ⓘ **ADVANCED FUNCTION.** The remote control entered into listening mode enables remote configuration from another controller assigned to the same network, e.g. Gateway Z-Wave.

Hold simultaneously UP and STOP buttons until GREEN backlight is on and D1 LED starts blinking.

Using UP, DOWN buttons select all LEDs (D1, D2, D3).

Accept using STOP button. GREEN backlight starts blinking alternately.

Within 12 seconds, run requested function using other remote control.

The remote control remains in the listening mode for 12 seconds after the end of data transmission. After this time the remote control automatically enters sleep mode.

ADDITIONAL INFORMATION

REMOTE CONTROL WAKE UP

The remote control comes with a safety feature protecting against accidental run of the device. First pressing of any button of the remote control wakes it up for 5 seconds. This option can be turned on by modifying configuration parameter by means of advanced controller.
Parameter 1
Value 1 – option is turned off (default settings).
Value 2 – option is turned on.

BATTERY STATUS

WARNING STATUS: Low battery status. After pressing any button, red backlight blinks for 2 seconds.
CRITICAL STATUS: Critically low battery status. After pressing any button, red backlight blinks for 2 seconds, device cannot be controlled.

ROUTING

Routing allows to use another device in the network to send commands from the controller in order to improve reach.
Routing is off by default.
ON – Press simultaneously STOP and LEFT buttons, green backlight will be on for 2 seconds.
OFF – Press simultaneously STOP and RIGHT buttons, red backlight will be on for 2 seconds.

PROBLEMS

CAUSE	SOLUTION
1. General problems.	
Programming button is not run.	Run programming mode.
Too long waiting time for pressing programming button on the device.	Run programming button in time no longer than 12 seconds.
Incorrect sequence of buttons.	Carry out the procedure while maintaining the required sequence of action.
2. Device cannot be added to the Z-Wave network using ZRG3 remote control.	
Device has been added to another Z-Wave network.	REMOVE DEVICE FROM NETWORK (page 8).
Controller is assigned to the network as SECONDARY.	Only PRIMARY controller can add and remove devices.
3. Device cannot be added to selected group.	
Group is full.	Add device to another group.
4. Device cannot be removed from the network.	
Controller is assigned to the network as SECONDARY.	Only PRIMARY controller can add and remove devices.
5. ZRG3 remote control cannot be assigned as SECONDARY.	
Too long waiting time for running ADD DEVICE TO NETWORK function on PRIMARY controller.	Run ADD DEVICE TO NETWORK function on PRIMARY controller in time no longer than 60 seconds.
6. Device cannot be controlled.	
No power supply.	Check whether the device that you want to control is properly connected to the power source. This can be done by using manual control button.
Too big distance between devices. Possible obstacles that limit reach.	Try to control the device from another location.

WARRANTY

The manufacturer guarantees correct device functioning. It also undertakes to repair or replace faulty device if damage is a result of material or structural faults. The warranty period is 24 months from the date of purchase, fulfilling the following conditions:
- Installation has been performed as per manufacturer recommendations.
- Seals remain intact and no authorised structural changes have been made.
- The device has been used in accordance with its intended use as per user manual.
- Damage is not a result of improperly made electrical system or atmospheric phenomena.
- The manufacturer is not liable for damage which occurred as a result of improper use or mechanical damage.

In case of failure, the device must be submitted for repair with a Warranty Card. Defects revealed within the warranty period will be removed free of charge no longer than 14 days after accepting the product for repair. Warranty and post-warranty repairs are performed by the manufacturer i.e. FAKRO PP. Sp. z o.o.

FAKRO Sp. z o.o.
Ul. Węgierska 144A, 33-300 Nowy Sącz
Polska
www.fakro.com
tel.+ 48 18 444 0 444, fax. +48 18 444 0 333

Quality certificate:

Device _____

Model _____

Serial number _____

Seller _____

Address _____

Purchase date _____

Invoice No. _____

Signature (stamp) of person installing a device