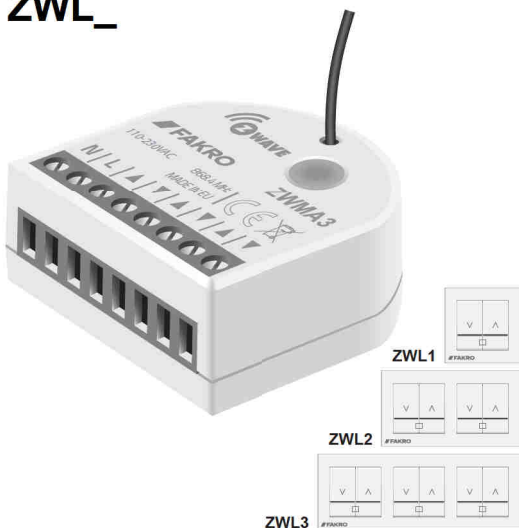


## ZWL\_



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.

<b>SAFETY RULES</b>	<b>3</b>
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## CONTROLLER DESCRIPTION

The ZWL\_controller is used for remote control of Z-Wave devices. The ZWL\_ can act as primary or secondary Z-Wave controller. It is suitable for installation in a junction box.

The controller comes in three versions:

ZWL1 - 1-channel controller to operate 1 device or 1 group of devices.

ZWL2 - 2-channel controller to operate 2 devices or 2 groups of devices.

ZWL3 - 3-channel controller to operate 3 devices or 3 groups of devices.



**PRIMARY** controller – used to operate devices. It can change network settings as well as add and remove devices. Only one PRIMARY controller can be in one Z-Wave network.



**SECONDARY** controller – used only to operate devices. Many SECONDARY controllers can be in one Z-Wave network.

## TECHNICAL SPECIFICATION

### Power supply:

110 - 230V AC

### Radio range:

Up to 20 m in a building

### Working temperature:

0 - 40°C

### Dimensions:

46/44/20 mm

### Radio protocol:

Z-Wave

### Frequency:

EU – 868,4 MHz

AS/NZ – 921,42 MHz

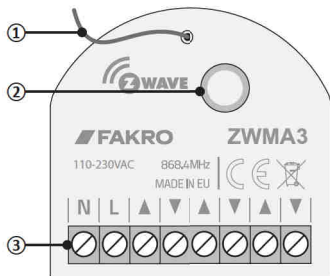
US/Canada – 908,4 MHz

RU – 869 MHz

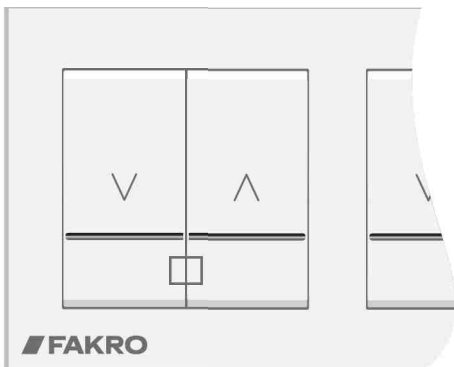
(depending on version)

## ZWL\_CONTROLLER STRUCTURE

**A**



**B**



## A - CONVERSION MODULE

- ① - Antenna
- ② - Programming button
- ③ - Connection terminal
- N - Neutral cable clamp
- L - Live cable clamp
- ▲ - Input terminal (up)
- ▼ - Input terminal (down)

## B - WALL SWITCH LP1, LP2 or LP3



Module is powered by hazardous voltage 110-230V AC

### SAFETY RULES

- Please read carefully instructions before proceeding to the device operation.
- The device must be installed out of children reach.
- Radio range is directly dependent on the environment.
- When programming the ZWL\_ controller to another Z-Wave device please read carefully its instructions.

### EU DECLARATION OF CONFORMITY

FAKRO PP Sp. z o.o. hereby declares that a type of radio device ZWL\_ is compliant with Directive 2014/53/EU.

The full text of the EU Declaration of Conformity can be found at:  
<http://www.fakro.com/ce-declarations/search/>

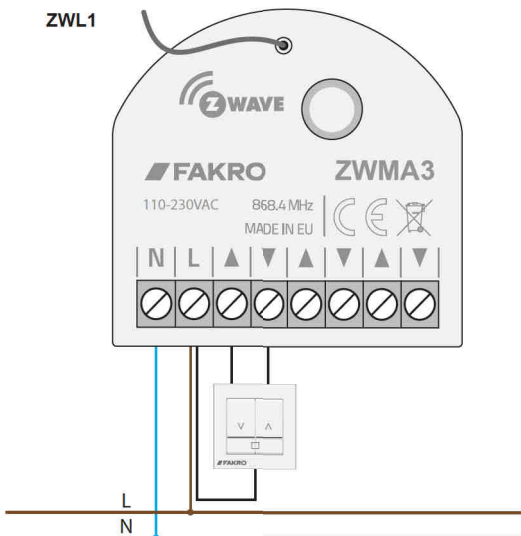
### COMPLIANCE WITH THE WEEE DIRECTIVE

Devices marked with this symbol must not be disposed of or thrown away as household waste. It is the user's responsibility to deliver devices that are worn out to the designated recycling area.



### CONTROLLER INSTALLATION

The ZWL\_ controller enables wired control by means of the blind switch. Cables connecting the controller with the button should have a minimum cross-section of 0.5mm<sup>2</sup>.



ZWL2



L  
N

ZWL3



L  
N

## CONTROL

### CONTROL MODES

The ZWL\_ controller can operate devices in BASIC MODE (default) and EXTENDED MODE. Carrying out this procedure causes alternate change of CONTROL MODES.

#### BASIC MODE / EXTENDED MODE

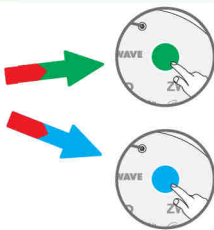
Hold PROGRAMMING button until LED turns red, and then it changes colour to green or blue.

Pressing of the control button causes a continuous action.

**i**

SIMULTANEOUS pressing of the control buttons (1 second) stops the action.

#### BASIC MODE



#### EXTENDED MODE

**i**

LONG pressing of the control button (longer than 0.5 second) causes the action until the button is released.

**i**

SHORT pressing of the control button (shorter than 0.5 second) causes a continuous action.

SIMULTANEOUS pressing of the control buttons (1 second) stops the action.

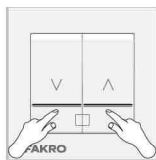
### DEVICE CONTROL



UP



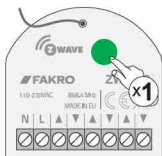
DOWN



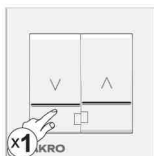
STOP

### ADD DEVICE QUICK START

This function allows to add new devices and SECONDARY controllers to the Z-Wave network.

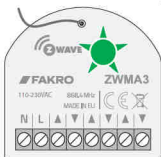


Press the button. After a while LED turns green.



Press any control button.

## ADD DEVICE



LED blinks in green.

Within 60 seconds enter the device being added into the programming mode. FAKRO products come with programming buttons marked with 'P'.

Control of the device is possible after 10 seconds.

## ADD CONTROLLER AS SECONDARY

If instead of the device you add another controller, run on it assign to the Z-Wave network as secondary controller. The ZWL controller – page 6 (SECONDARY CONTROLLER), controller of other type – see its user manual.

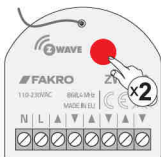


LED blinks in green.

Run assign as secondary function on the controller being added within 60 seconds.

## REMOVE DEVICE

Devices can be removed from the network using PRIMARY controllers.



Press twice the button. After a while LED turns red.

Within 60 seconds enter the device being removed into the programming mode.

## CONTROLLER AS SECONDARY

This function allows to add another ZWL\_ controller to the Z-Wave network as SECONDARY controller. PRIMARY controller in this network can be of any type. This function does not send any information about devices. Add devices to SECONDARY controller (function ADD DEVICE TO SECONDARY CONTROLLER – page 7).

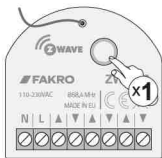


Press the button three times. After a while LED turns blue.

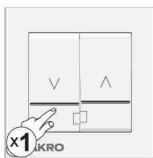
Run ADD DEVICE function on PRIMARY controller within 60 seconds.  
The ZWL\_ controller (page 6).  
Controller of other type – see its user manual.

## ADD DEVICE TO SECONDARY CONTROLLER

Only those device can be added to SECONDARY controller which have already been added to the same network.



Press the button.



Press any control button within one second.



LED blinks in green.



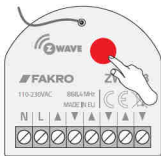
Enter the device being added into the programming mode within 60 seconds.

After adding new devices to the network which will be controlled by SECONDARY controller, it is required to repeat the following procedures: CONTROLLER AS SECONDARY and ADD DEVICE TO SECONDARY CONTROLLER.

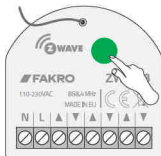
## CONTROLLER RESET

**PRIMARY CONTROLLER RESET** – it removes all information in the controller. Controlling devices again is possible after resetting all devices (function REMOVE DEVICE – page 6) and adding them again (function ADD DEVICE – page 5).

**SECONDARY CONTROLLER RESET** – it removes all information in the controller. Controlling devices again is possible after carrying out procedures: CONTROLLER AS SECONDARY (page 6) and ADD DEVICE TO SECONDARY CONTROLLER (page 7).



Hold the button until LED turns red.



Hold the button until LED turns green.



Hold the button until LED turns blue.



Successful reset of the controller is signaled by another blink of all colours on LED.

## PARAMETER RESET

Parameter being reset in the controller is control mode. Reset of this parameter restores control mode to basic mode.



Press the button five times.



Successful reset of the controller parameters is signaled by another, double blink of all colours on LED.

## PROBLEMS

CAUSE	SOLUTION
<b>1. Device cannot be added to the Z-Wave network.</b>	
Device is added to other Z-Wave network.	Use REMOVE DEVICE function (page 6)
The controller is assigned to network as SECONDARY.	Only PRIMARY controller can add devices.
<b>2. Device cannot be removed from the Z-Wave network.</b>	
The controller is assigned to network as SECONDARY.	Only PRIMARY controller can remove devices.
No contact with device.	Check whether the device is not damaged. If so, reset the controller and add other devices again.
<b>3. Control problems</b>	
No power supply.	Check whether the device you want to control is correctly connected to the source of power. This can be done by using manual control button.
Too big distance between devices. Possible obstacles restricting the reach.	Try to control device from different location.

## COMMAND CLASSES

### MANUFACTURER SPECIFIC REPORT

Parameter	Value
Manufacturer ID	0x0085
Product Type ID	0x0007
Product ID	0x0004

### COMMAND CLASSES

Command Classes	Support
Z-WAVEPLUS_INFO	ok
VERSION	ok
POWERLEVEL	ok
ASSOCIATION	ok
ASSOCIATION GROUP INFO	ok
MANUFACTURER SPECIFIC	ok
DEVICE RESET LOCALLY	ok
CONFIGURATION	ok
NODE NAMING	ok

## 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.

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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

