FAKRO®

GB

ORIGINAL USER MANUAL

Module CONTACT Z-Wave

ZWMC230

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

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MODULE DESCRIPTION

The ZWMC230 module is designed to operate devices with potential-less inputs using Z-Wave controllers and a wall switch. The ZWMC230 module can activate independently two short circuits with variable contact duration. Permissible current on process contacts is 1A at 230V AC. An example of a controlled device can be a gate or shutter with potential-less inputs.

CONTROLLER – Z-Wave device such as remote control, module, wall switch, Internet gateway.

POTENTIAL-LESS INPUT – input controlled by short circuit of the module.

TECHNICAL SPECIFICATION

Power supply: 110-230V AC	**Radio protocol:** Z-Wave
Maximum load: 1A, 230V AC	**Radio reach:** Up to 20m in building
Dimensions: 46x44x20mm	**Radio frequency:** EU - 868,4 MHz
Working temperature: 0-40°C	

ZWMC230 MODULE STRUCTURE

① - Antenna
② - Programming button
③ - Connection terminal

L- - Power supply: 110-230 V AC
N- - Power supply: 110-230 V AC

IN - Short circuit input
O1 - Short circuit output 1
O2 - Short circuit output 2

S1 - O1 Control Switch through short circuit to L
S2 - O2 Control Switch through short circuit to L

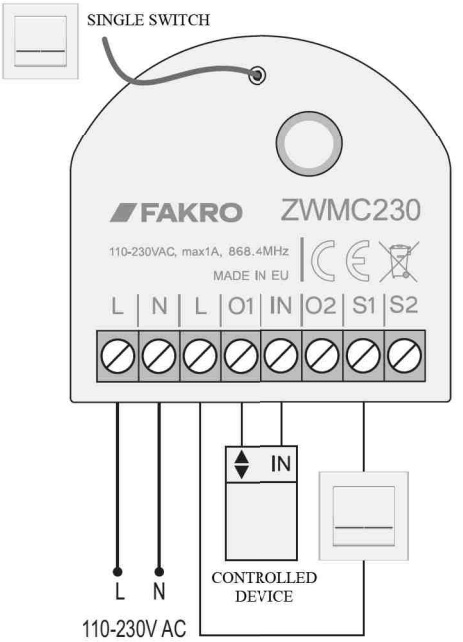
IMPORTANT INFORMATION

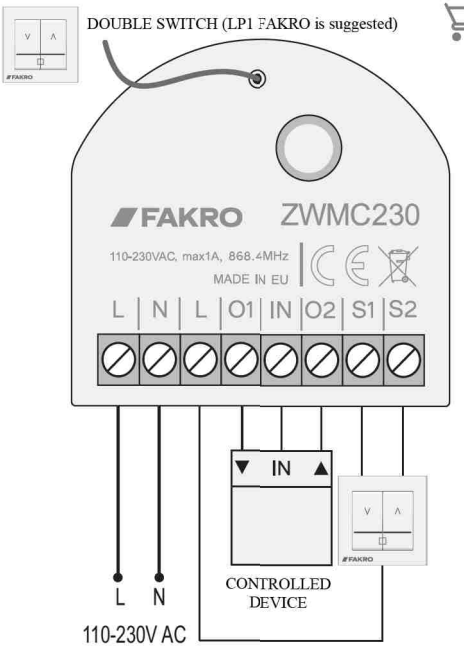
- Please read carefully instructions before proceeding to the device operation.
- The device must be installed out of children reach.
- Radio range is directly dependent on the environment
- When programming the ZWMC230 module to another Z-Wave device please read carefully its instructions.
- We declare that the ZMWC230 module is compliant with the requirements of RED 2014/53/UE directive in the following scope:

- Health protection and safety of use
- Electromagnetic compatibility
- Effective use of radio frequency spectrum

MODULE INSTALLATION

The ZWMC230 module enables wired control by means of an astable single or double switch (see CONTROL).
Cables connecting the ZWMC230 module with the switch should have a minimum cross-section of 0.75mm^2.
The ZWMC230 module should be fitted in such a place that the range from the Z-Wave controller can be used.





CONTROL

The ZWMC230 module can be operated by means of the Z-Wave controller or wall switch. Depending on the controller used, it is possible to change the control mode.

CONTROL

LONG press of the control switch (over 0.5 sec.) switches the relay on until the switch has been released.

SHORT press of the control switch (below 0.5 sec.) switches the relay on until time set in the parameters has elapsed.

CONTROL MODES

Single switch (astable)

The switch works in sequential mode: 1. Start, 2. Stop, 3. Start in the opposite direction, 4. Stop…

Double switch (astable), LP1 FAKRO is suggested

Separate up and down control switches. The module can be stopped by pressing simultaneously up and down switches or by pressing stop switch on the controller.

OPERATION MODE CHANGE

CONFIGURATION OF ZWMC230 MODULE PARAMETERS
PARAMETER NUMBER
< 1 >
PARAMETER VALUE
< 1 or 2 >

- Select the ZWMC230 module from the list of devices
- Enter the parameter configuration mode
- Select parameter 1
- Select parameter value

1 - Pressing "STOP" disconnects relays
2 - Pressing "STOP" activates two relays (1sec.)

- Accept your choice

PROGRAMMING

For programming information refer to the user manual of the Z-Wave controller which is to control a module.

ADD TO Z-WAVE NETWORK
ADD TO GROUP
REMOVE DEVICE FROM Z-WAVE NETWORK
REMOVE DEVICE FROM GROUP
etc.

Run selected function on the Z-Wave controller.

Press the programming button on the ZWMC230 controller within time specified by the controller.

- Module is assigned to the Z-Wave network - programming LED is off.
- Module is not assigned to the Z-Wave network - programming LED is on.

MODULE PARAMETERS SETTINGS

The ZWMC230 module has variable operating parameters that can be modified using advanced controllers. Please check the controller's manual whether the function is available.

CONFIGURATION OF ZWMC230 MODULE PARAMETERS
PARAMETER NUMBER
< X >
PARAMETER VALUE
< X >

- Select the ZWMC230 module from the list of devices
- Enter the parameter configuration mode
- Select the parameter and its value
- Accept your choice

Operation parameters [default values in square bracket].

PARAMETER NUMBER		
PARAMETER		PARAMETER VALUE
Operation mode	1	[1] - Pressing "STOP" disconnects relays 2 - Pressing "STOP" activates two relays (1 sec.)
Relay short circuit time	15	[1] - 0.1sec. 189 - 10-1sec., 20-10sec., ... 189-180sec.
Position report time	14	[0] - Time report is off 300 - 1-1sec., ... 300-300sec.
Parameter reset	99	[1] - Default parameters 2 - Parameters other than default
Module remote removal*	100	[1] - Off 2 - On

* Module remote removal – once this procedure is completed, the module automatically switches to the remote adding mode to the Z-Wave network. To add the module to the Z-Wave network run ADD TO NETWORK function on the selected controller.

MODULE PARAMETERS RESET

This function allows to restore default parameters of the ZWMC230 module.

Press the programming button 3 times at intervals of 0.5 sec.

MODULE RESET

This function allows to remove the ZWMC230 module from the Z-Wave network and restore default parameters of the module.

Press the programming button 5 times at intervals of 0.5 sec.

PROBLEMS

CAUSE	SOLUTION
1. ZWMC230 module can not be programmed.	
The ZWMC230 module is assigned to other Z-Wave network (the programming button is not illuminated).	Remove the ZWMC230 module from the Z-Wave network or perform MODULE RESET procedure (page 5).
Too long waiting time for pressing the programming button.	Check the available time for pressing the programming button in the user manual of the controller concerned.
2. Control problems	
No power supply.	Check whether the device that you want to control is correctly connected to the power source. This can be done by using manual control button.
Too long distance between devices. Possible obstacles that limit reach.	Try to control the device from a different location.
The actuator operates in the incorrect direction.	Replace wires in O1 and O2 clamps.

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.

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Quality certificate:

Device

Model

Serial number

Seller

Address

Purchase date

Invoice No.

Signature (stamp) of person installing a device