

ZWP10

Z-Wave Controller User Manual



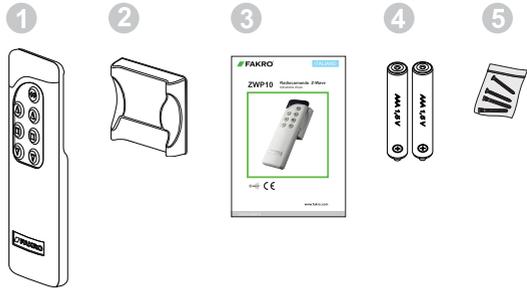
Dear Sir/Madam! Thank you for purchasing product from FAKRO Company. We do hope that it will meet your expectations. To provide appropriate functioning of the product, please read this User Manual.

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Packaging content

- ① Remote control
- ② Magnetic wall holder
- ③ User manual
- ④ Batteries 2 x AAA 1,5V
- ⑤ Mounting screws



Technical Data

Power supply	3V DC, Battery 2xAAA 1,5 V
Operation temperature	(+5°C) to (40°C)
Range of operation in the open space	up to 40 [m]
Wireless Protocol	Z-Wave
Operation frequency	868,4[Mhz] (EU); 921,42[MHz] (AS/NZ); 908,4[MHz] (US/Canada)
Sizes (length/width/height)	157 / 38 / 19 [mm]

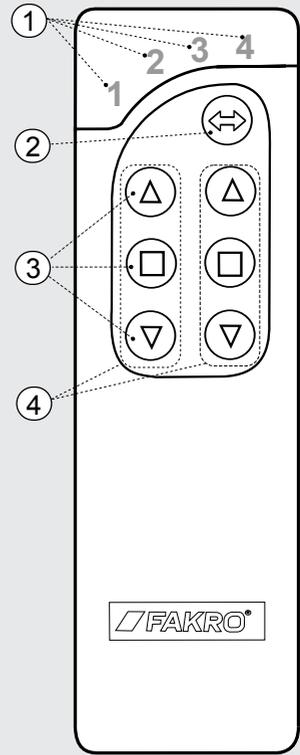
Product description

The ZWP10 controller enables radio control of FAKRO electrical accessories and of other manufacturers that are compatible with the Z-Wave system. The ZWP10 controller operates up to 10 devices, separately on 5 channels (2 devices for 1 channel). It also allows for creation of 10 independent groups. Each group can include several devices operated simultaneously. Controller's memory can contain up to 231 devices.

The ZWP10 controller is equipped with a two-way Z-Wave radio communication module exploiting radio wave frequency (frequency depending on the country for which the product is intended). It can be used as the basic controller – PRIMARY as well as an additional – SECONDARY. PRIMARY controller allows for integration of many devices into one radio network while SECONDARY is used as an additional controller in already existing network (see LEARN MODE function).

In addition to Basic Mode of operation: OPEN, STOP, CLOSE, the ZWP10 controller offers Multilevel Mode allowing for e.g. smooth dimming of the light.

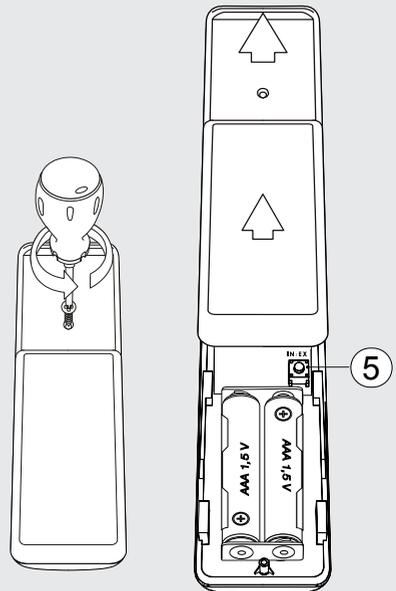
- 1 LEDs signalling active channel:
 1 - channel 1
 2 - channel 2
 3 - channel 3
 4 - channel 4
 1,2,3,4 - channel 5
- 2 Button of SELECT channel choice
- 3 Buttons of MOVEMENT – operate single device or group of devices
 OPEN, STOP, CLOSE
- 4 Groups of controlled devices:
 group 1,2 – channel 1
 group 3,4 – channel 2
 group 5,6 – channel 3
 group 7,8 – channel 4
 group 9,10 – channel 5
- 5 Programming button IN/EX under back cover of the remote control



Control modes

Basic – press button of movement ▲ or ▼ within 0.5 sec. in order to cause the device to move and press ■ in order to stop the device.

Multilevel – press button ▲ or ▼ and hold until the device reaches desired position and then release the button.



General information

Operation of FAKRO products is based on radio communication protocol Z-Wave. To enable the controller to operate FAKRO Z-Wave electrical accessories, it is necessary to configure them appropriately into one Z-Wave radio network. For this purpose there are used appropriate commands performed on the controller. Each network has its address (HomeID) and each device in the network has its number (NodeID). All devices in the Z-Wave network are divided into operating devices – controllers and devices controlled (e.g. servo-motors). Single controlled device can operate only within one network (single HomeID) and one network can include only one basic PRIMARY controller (overriding). In order to add second controller, it must be set as SECONDARY (subordinate). When configuring devices to operation in the network, address (HomeID) is assign to them and Node ID appropriate in order (fig. 1).

Basic functions of the Z-Wave system

- Include** - adding device to the network
- Associate** - adding device to buttons of movement (group)
- Delete** - removing device from buttons of movement (group)
- Exclude** - removing device from the network
- Learn Mode** - adding another controller
- Default** - restoring controller to factory settings

To simplify configuration, some of above procedures were joined what will be explained in the chapter concerning programming.

Sample scheme of the Z-Wave network

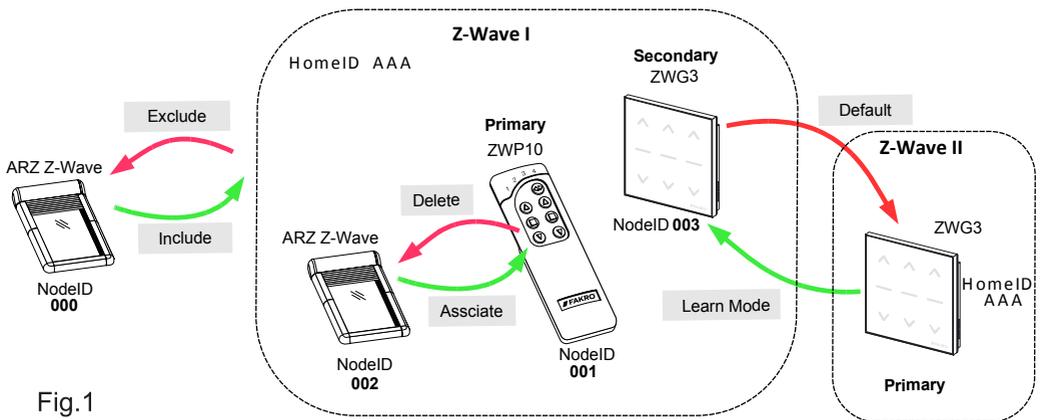
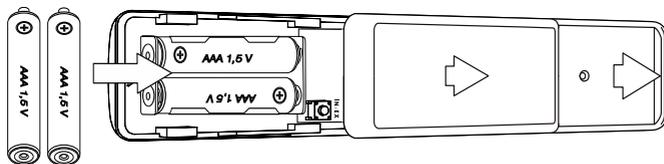
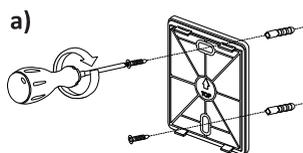


Fig.1

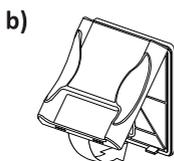
1 Put batteries in the controller



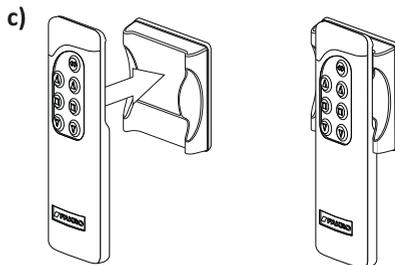
2 Attach holder to the remote control in a location that is convenient for you.



Screw holder firmly to the wall with the use of anchor pins.



Put the washer on the holder.



Check whether the remote control is firmly located in magnetic washer.

3 Prepare device which is to be operated (see Product User Manual)

Make sure that the device is appropriately installed and plugged in to power supply.

Make sure that you have physical access to programming button and device manual operating button.

Make sure that the device operates appropriately by pressing manual operating button.

Make sure that the network status LED on the device which is to be added to controller lights up. If the network status LED does not emit light it means that the device is not plugged in to power supply (manual operation does not work) or it has already been assigned to the same or other controller.

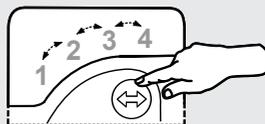


Note! In devices powered by photovoltaic panel (AMZ Z-Wave Solar awning blind, ARZ Z-Wave Solar roller shutter) the network status LED should light up for 5 sec. after pressing P button what means readiness to assign device to the network.

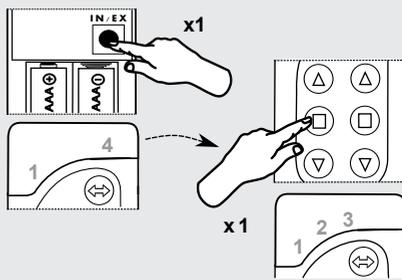
Adding device to the controller and buttons of movement

If device has not been purchased with the controller in a set, it should be programmed. If the network is configured again, it is necessary to reset the controller to factory settings (DEFAULT function) and then follow below presented steps in appropriate time intervals.

- 1 Choose one of 5 channels on which the device is to be assigned by pressing SELECT button.

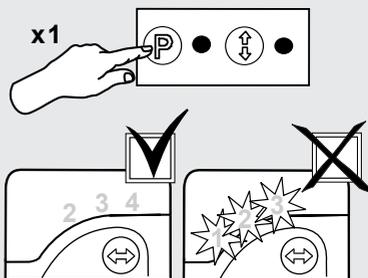


- 2 Press IN/EX button on the back of the controller. If LEDs 1 and 4 light up, then press one of movement buttons of a given group until LEDs change for 1,2,3.



- 3 Within 10 sec. press P button on the device until the network status LED is off (see device programming manual).

- Controller signals device correct adding by lighting of LEDs 2,3,4
- Controller signals device incorrect adding by blinking of LEDs 1,2,3 and the procedure should be performed again from point 2.



After the above steps to ensure proper operation of the device, wait 10sec.

Now controller is ready to operate.



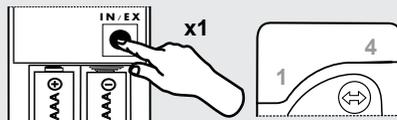
Note! If one omits step 2, that is pressing button of movement, the device will be added only to the network (see INCLUDE function). Then, to be able to operate the device, it is necessary to add it to buttons of movement with the use of ASSOCIATE function.

In order to add another device to the same or other group, it is necessary to perform above procedure again.

Adding device to the controller - INCLUDE

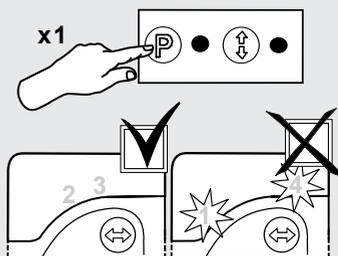
Adding device only to the controller's memory is required if the user wants device to be in the Z-Wave network and operated e.g. only by subordinate controller (SECONDARY).

1 Press once IN/EX button on the controller. LEDs 1 and 4 will light up.



2 Within 10 sec. press P button on the device until the network status LED is off (see device programming manual).

- Controller signals device correct adding by lighting of LEDs 2 and 3.
- Controller signals device incorrect adding by blinking of LEDs 1 and 4 and the procedure should be performed again.



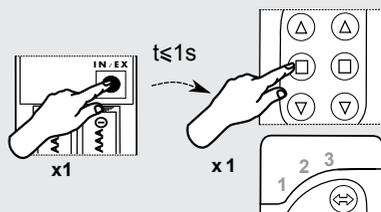
Adding device only to buttons of movement - ASSOCIATE

If device has already been assigned to the controller for buttons of movement (group) it can be added to another group with the use of ASSOCIATE function.

1 Choose one of 5 channels on which the device is to be assigned.

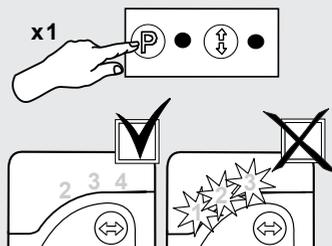


2 Within 1,5 sec. press once IN/EX button and once button of movement of a given group to which device is to be added. LEDs 1,2,3 will light up.



3 Within 10 sec. press P button on the device (see device programming manual).

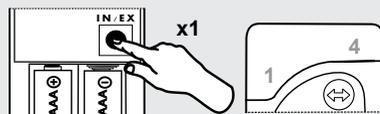
- Controller signals correct adding to group by lighting of LEDs 2,3,4
- Controller signals incorrect adding by blinking of LEDs 1,2,3 and the procedure should be performed again from point 2.



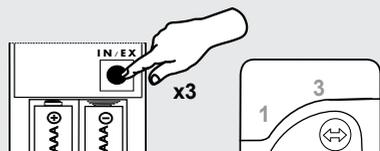
Adding another controller to the Z-Wave network – LEARN MODE

Function is used for copying information about devices from basic controller (PRIMARY) to additional and making it a SECONDARY controller. After performing LEARN MODE on the controller, it is also necessary to assign device to buttons of movement with the use of ASSOCIATE function. It is better to perform LEARN MODE function after adding all devices to basic controller or after modification of the network.

- 1 Press once IN/EX button on basic remote control. LEDs 1 and 4 will light up.

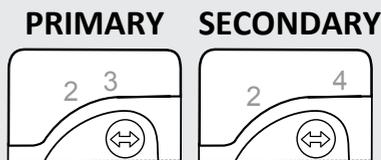


- 2 Within 10 sec. press three times IN/EX button on additional remote control until lighting of LEDs 1 and 3.



Within 10 sec. on basic remote control LEDs 2 and 3 will light up and on additional 2 and 4 will light up.

If the sequence does not occur, perform the procedure from the beginning.



Note! With the use of an additional controller – SECONDARY it is not possible to add device to the network (INCLUDE) and remove device from the network (EXCLUDE). However, it is possible to perform ASSOCIATE and DELETE functions.

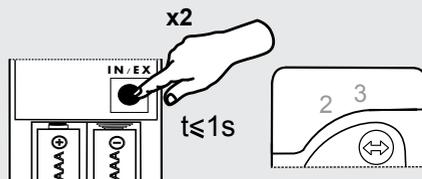
PRIMARY and SECONDARY function of the controller can be performed by controllers from different companies complying with Z-Wave protocol.

To set the SECONDARY controller as PRIMARY again, perform the DEFAULT function.

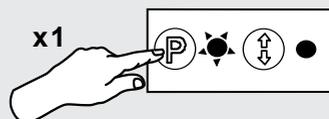
Removing device from the controller - EXCLUDE

If the user wants to completely remove device from the Z-Wave network (reset HomeID) e.g. in order to assign to another controller, below presented procedure must be performed. But one should bear in mind that this procedure will remove device from buttons of movement and controller's memory.

1 Press twice IN/EX button within 1 sec. LED's 2 and 3 will light up.

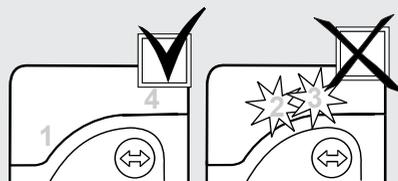


2 Within 10 sec. press P button on the device and hold until the network status LED lights up (see device programming manual).



- Controller signals device correct removing from the network and group by lighting of LEDs 1 and 4.

- Controller signals incorrect removing by blinking of LEDs 2 and 3 and the procedure should be performed again from point 1.



! Note! With the use of EXCLUDE function it is also possible to remove (reset) devices assigned to other networks.

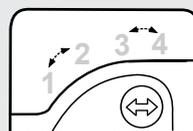
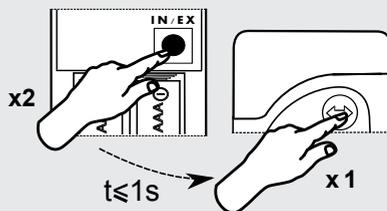
Restoring controller to factory settings - DEFAULT

Resetting the controller will cause removing of all devices from its memory and the change of unique HomeID network address for a new one.

Removing devices from the controller will not cause reset of devices themselves. If the user wants to add them once again to the Z-Wave network (controller's memory) it is necessary to perform EXCLUDE procedure on devices and assign them again.

1 Within 1 sec. press twice IN/EX button and once SELECT button until LEDs 2,3-1,4-2,3 blink.

- If a given sequence of LEDs does not occur it is necessary to perform procedure again.

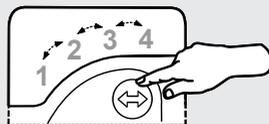


DEFAULT function will set the SECONDARY controller again as the PRIMARY controller.

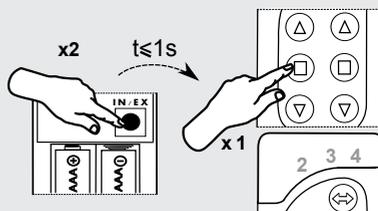
Removing one device from buttons of movement - DELETE

Function is used for removing particular device from buttons of movement without removing it from the network.

1 Choose channel on the controller from which the device is to be removed.

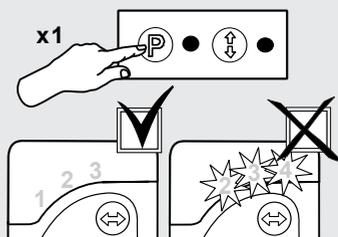


2 Within 1.5 sec. press twice IN/EX button and once one of buttons of movement of a given group. LEDs 1,2,3 will light up.



3 Within 10 sec. press P button on the device and hold until LEDs on the controller change into 1,2,3.

- Controller signals error by blinking of LEDs 2,3,4 and procedure must be performed again.



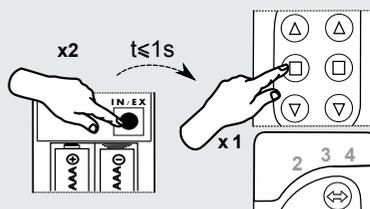
Removing group of devices from buttons of movement - DELETE

This function is used for removing all devices from buttons of movement of a given group without removing them from the network.

1 Choose channel on the controller from which group of devices is to be removed.

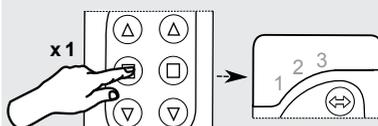


2 Within 1,5 sec. press twice IN/EX button and once any button of movement of a given group until LEDs 1,2,3 light up.



3 Within 10 sec. confirm removing devices by pressing STOP button of a given group.

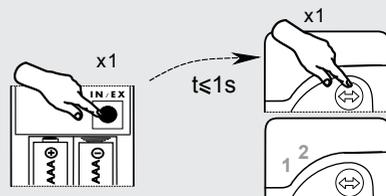
- LEDs 1,2,3 will light up on the controller. Otherwise procedure must be performed again.



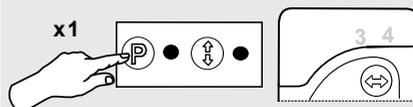
Adding remote device to the Z-Wave network - ASSIGN A ROUTE

Function allows for adding already installed Z-Wave device to SECONDARY controller, permanently installed (e.g. ZWMP or ZWMA weather module) via PRIMARY controller (transferring Node INFO). Such situation occurs when device (SECONDARY controller and controlled device) are not in direct contact with each other or time to perform ASSOCIATE procedure is too short.

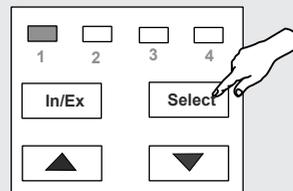
- 1 Within 1 sec. press IN/EX button and once SELECT button on PRIMARY controller. LEDs 1 and 2 will light up.



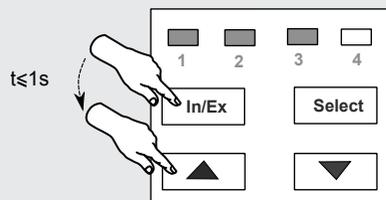
- 2 Within 10 sec. press P button on the device until LEDs on the controller change into 3 and 4.



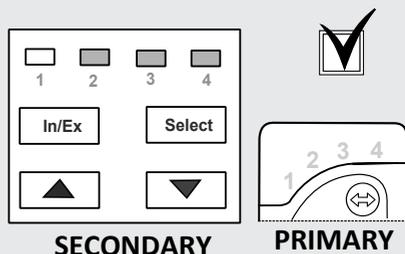
- 3 On the target controller – SECONDARY (e.g. ZWMA module) within 60 sec. choose channel and perform ASSOCIATE function – within 1 sec. press IN/EX button and button of movement of a given group until LED's 1,2,3 light up.



-Target controller signals accepting the Node INFO by the change of LEDs for 2,3,4 and on PRIMARY controller LEDs 1,2,3,4 light up.



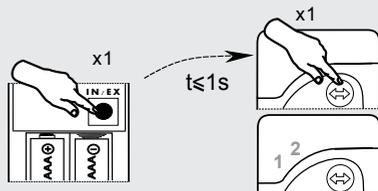
- If a given sequence of LEDs does not occur, it is necessary to perform procedure again.



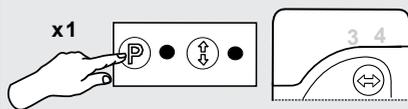
Associating Z-Wave devices - ASSOCIATE DEVICE

Function allows for such configuration of devices within one Z-Wave network that one controlled device launch another device, not assigned to controller's buttons of movement. An example is launching of one servo-motor with the use of another servo-motor equipped with a rain sensor.

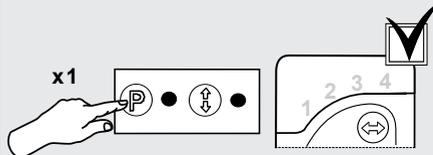
1 On PRIMARY controller within 1 sec. press once IN/EX button and once SELECT button. LEDs 1 and 2 will light up.



2 Within 10 sec. press P button on the device which is to be controlled until LEDs on the controller change into 3 and 4.



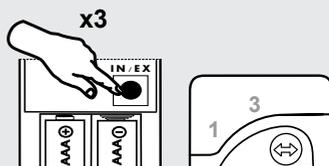
3 Within 60 sec. press P button on the device which is to be operated (see device manual) until LEDs on the controller change into 1,2,3,4.
- If a given sequence of LEDs does not occur, it is necessary to perform procedure again.



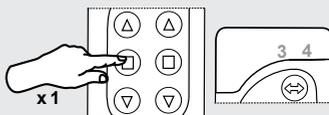
Copying group of devices - COPY GROUP

This function allows for copying group of devices from PRIMARY controller to SECONDARY controller and conversely within one network.

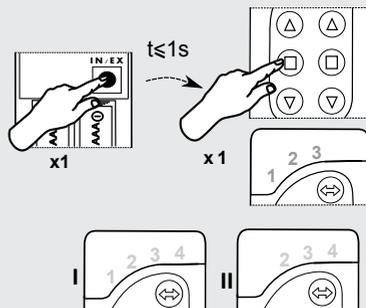
1 Choose channel and within 1,5 sec. press IN/EX button 3 time on the controller no. I. LEDs 1 and 3 will light up.



2 Within 10 sec. press STOP button the group copied, until LEDs change to 3,4



3 Within 10 sec. choose channel and perform ASSOCIATE function on the target controller (no. II) by pressing IN/EX and STOP button of a group to which device is to be copied. LEDs change to 2,3,4 and on the controller no. I to 1,2,3,4.

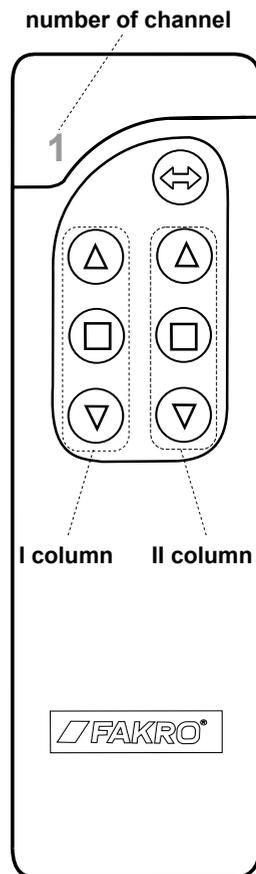


- If a given sequence of LEDs does not occur, it is necessary to perform procedure again.

Setup ZWP10 with Vera and Fibaro gateway

If the controller is not configured correctly when you include it to gateway is should be introduce to **Listening Mode** (hold select button over 3 seconds, sequential flashing 4 LEDs provides information on entry mode and begin in it) - mode that allows remote configuration of the controller and on primary controller in this case gateway reconfiguration or re-configure.

No. channel	I column	II column	No. of group association
1 2 3 4	+		1
1 2 3 4		+	2
1	+		3
1		+	4
2	+		5
2		+	6
3	+		7
3		+	8
4	+		9
4		+	10



Warranty

The manufacturer guarantees correct device functioning. It also undertakes to repair or replace the device if its defects result from material or structural faults. The warranty period is 24 months from the purchase date, fulfilling the following conditions:

- Installation has been performed by an authorised individual, as per manufacturer recommendations.
- Seals remain intact and no unauthorised 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. .

Quality Certificate:

Device

Model.....

Serial Number.....

Seller.....

Address.....

Date of Purchase.....

.....
Signature (stamp) of installing person

FAKRO PP Sp. z o.o.

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