

VMZ Z-Wave

*Electric Awning Blind
User Manual*



www.fakro.com

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

Contents

Important information 2
Awning blind description 3
Awning blind programming / Additional information 4
Reach of Z-Wave devices 5
Signalling description / Technical parameters 6
Declarations / Warranty 7

Important Information

Please read carefully user manual before proceeding to product operation in order to ensure its proper functioning!

Please read carefully the instructions below before proceeding to the awning blind installation so as to prevent electric shock, injury, etc.

When installing electric awning blind, it is necessary to observe the following recommendations:

- After unpacking, check the awning blind elements for any signs of mechanical damage.
- Installation should be performed by a qualified person in accordance with manufacturer instructions.
- Before connecting the awning blind, make sure that the power voltage corresponds with voltage specified on the data plate.
- Take the awning blind out of the packaging, lie it in flat position and connect (two-core cable – 15V DC). Verify its correct functioning by performing one full working cycle with the use of manual operating button.
- Plastic containers used for packing should be stored out of children reach as they may be a potential source of danger.
- The awning blind should be used according to its intended design. The FAKRO Company shall not be responsible for any consequences being the result of improper awning blind use.
- Any activities relating to cleaning, adjustment or dismantling the awning blind should be preceded with disconnecting the power supply.
- The awning blind cannot be washed using solvent-based substances or open stream of water (do not immerse in water).
- Any repairs of the awning blind should be carried out by service authorised by the manufacturer.
- The awning blind is intended for outdoor installation.

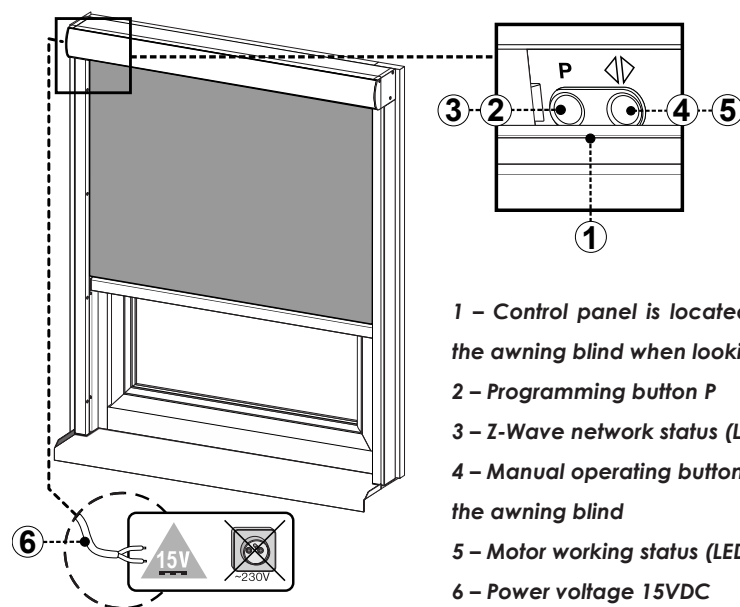
Awning blind description

The VMZ Z-Wave awning blind is intended for installation in vertical windows. It is equipped with the module of the Z-Wave wireless control system. Radio communication is two-way and exploits radio frequency depending on part of the world (EU 868,4[MHz]; AS/NZ 921,42[MHz]; US/Canada 908,4[MHz]; RU 869[MHz]). Products of FAKRO and other manufacturers compliant with the Z-Wave standard are compatible with each other.

The VMZ Z-Wave awning blind features three limit switches:

- limit switch at unfolded awning blind position
- limit switch at folded awning blind position
- current limiting protecting the awning blind against damage and the user against accidental injury as a result of contact with moving elements of the awning blind.

To be able to operate the device, it is necessary to install it following the picture installation instructions included in the product package. Subsequently, the awning blind should be programmed for one of the controllers (e.g. ZWP remote control) offered by FAKRO or any other controller of other manufacturer equipped with the Z-Wave module. Below there is presented a general view of the VMZ Z-Wave awning blind with description of available buttons and signaling.



1 – Control panel is located in the right upper corner of the awning blind when looking from the interior

2 – Programming button P

3 – Z-Wave network status (LED 1)

4 – Manual operating button enables manual operation of the awning blind

5 – Motor working status (LED 2)

6 – Power voltage 15VDC



Before proceeding to programming check whether the awning blind is not already assigned to other controller. It is indicated by the network status LED. Network status light-emitting LED informs that the awning blind is not assigned to the controller and can be assigned to this controller. If the device is correctly connected to the power supply and network status LED does not emit light, it is necessary to restart the device by using the controller.

Adding device to controller - INCLUDE

In order for the awning blind to communicate within the Z-Wave network it is necessary to connect it to the controller's memory e.g. the ZWP remote control. The awning blind can be added to the controller, only if it is not already assigned to the other one.

Adding device to buttons of movement – ASSOCIATE

After correct adding of the awning blind to the controller e.g. the ZWP remote control, it is necessary to assign it to a specific group of movement buttons by means of which it will be controlled.

Cooperation of devices offered by different manufacturers in the Z-Wave

The Z-Wave allows to integrate devices of different manufacturers which can work in different groups; lighting, heating, domestic automatic control, etc. Z-Wave devices operate as repeaters in the network, thus increasing the range of radio communication. The more devices in the network, the more reliable and more resistant to interference is performance of devices within the network.

Adding the awning blind to the controller of other manufacturer

Start INCLUDE procedure by using controller of other manufacturer and then press for 1 sec. P programming button on the VMZ Z-Wave awning blind being added to the network.

Manual operating

The "manual operating button" allows operating the VMZ Z-Wave awning blind directly after connecting it to power supply. Press manual operating button in order to control the awning blind manually. Buttons work sequentially e.g. start, stop, start in another direction, stop, etc.1.

1. Pressing the button for the first time starts the awning blind to unfold.
2. Second pressing the button stops the awning blind.
3. Third pressing the button starts the awning blind in the opposite direction.



Information how to program the product by using FAKRO controllers is to be found in the manuals of these controllers.



Information how to perform other procedures of programming is to be found in the manual of a specific controller.

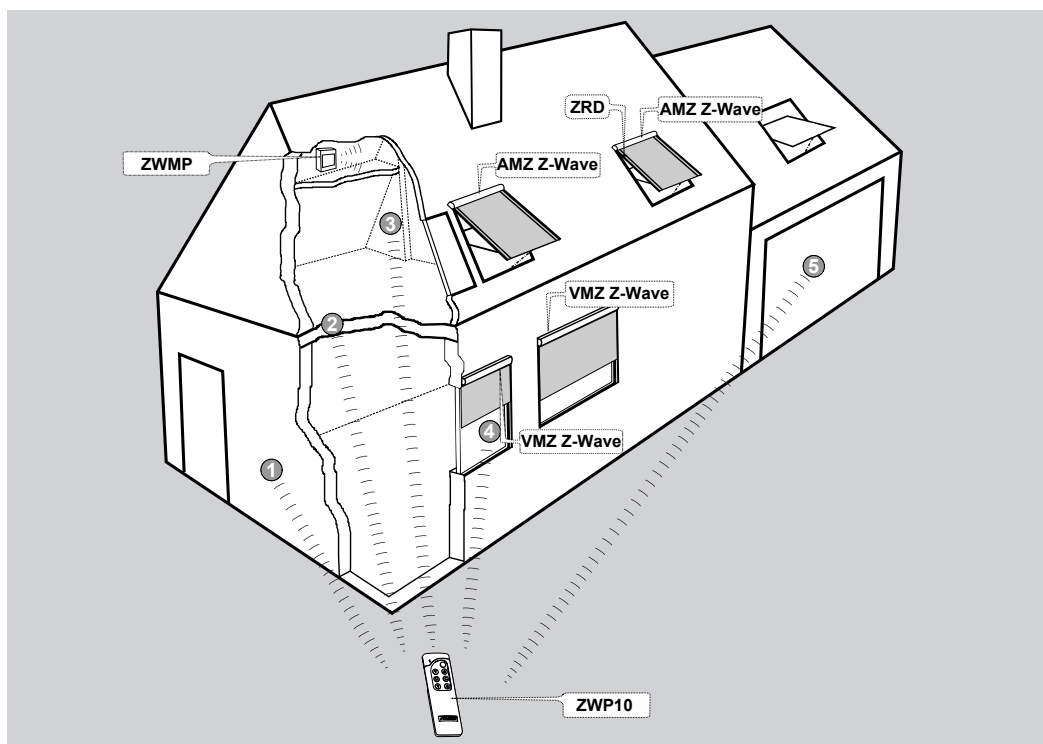


Information how to program the product by using controllers of other manufacturers is to be found in the manuals of these controllers.

Reach of Z-Wave devices

Radio signal reach depends on the type of construction, the materials used and the Z-Wave devices location. Working range in open area is up to 40m. Penetration of the radio signal in different materials is as follows:

1. Brick wall 60-90%
2. Reinforced concrete 20-60%
3. Wooden structures of gypsum cardboard 80-95%
4. Glass 80-90%
5. Metal walls 0-10%

**Sample configuration of Z-Wave network**

The ZWP10 remote control starts separately two AMZ Z-Wave awning blinds (active channel 1) and two VMZ Z-Wave awning blinds (active channel 2). Additionally, awning blinds can be launched simultaneously (active channel 3).

The weather module in cooperation with the rain sensor closes roof windows when the first drops of rain appear.

Signalling description

Network status LED continuously on

The device has been connected with the power supply, but it has not been associated with the controller (e.g. ZWP remote control). The awning blind can only be run by using manual operating button. Remote controlling the awning blind is possible after associating it with the controller.

Network status LED off

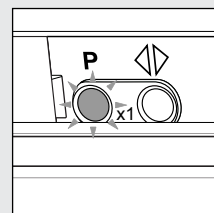
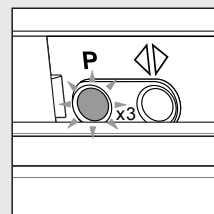
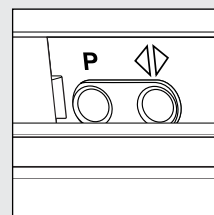
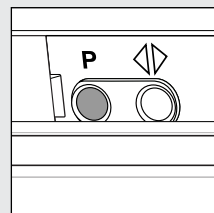
- The device has been associated with the controller and buttons of movement (e.g. ZWP remote control). Remote controlling the awning blind is possible.
- The device has been associated with the controller (e.g. ZWP remote control). Remote controlling the awning blind is not possible.
- The device has not been connected with the power supply. Controlling the awning blind is not possible.

Triple LED flash of the motor working status

Current consumed by the awning blind's motor is too high. It may be caused by stopping the awning blind's fabric by external factors. Clean fabric and guides. In case of problems with operating, please contact FAKRO service.

Single LED flash of the motor working status

Current consumed by the awning blind's motor is too low. The awning blind's fabric reached extreme positions. If the awning blind stops in other position, adjust mechanical limiter of the motor. See the installation manual of the VMZ Z-Wave awning blind.



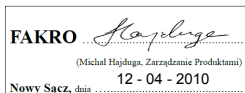
Technical parameters

Power	15V DC
Rated current	1,4 A
Speed	Up to 40 [m]
Power cable	2 x 0,75 mm²
Radio protocol	Z-Wave
Working frequency	EU-868,4[MHz]; AS/NZ-921,42[MHz]; US/Canada-908,4[MHz]; RU-869[MHz]

Declaration of Conformity



We FAKRO Sp. z o.o., 144A Węgierska St. declare that the product: VMZ Z-Wave awning blind:
 • is compliant with the requirements of 2004/108/EEC directive concerning electromagnetic compatibility;
 • is compliant with the requirements of 1999/5/EEC directive concerning radio devices and final telecommunication equipment as well as mutual recognition of their conformity;
 • is compliant with the requirements of 2006/95/EEC directive concerning electric equipment designed for use within certain voltage limits;
 • has been manufactured according to harmonized standards PN-EN 300220-2, PN-EN 301489-3, PN-EN 55014-1, PN-EN 55014-2, PN-EN 60335-2-97, PN-EN 60335-1;
 The VMZ Z-Wave awning blind is considered to be a device that can be introduced to use only after installation performed according to installation and usage instructions.



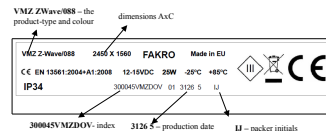
Declaration of Performance

	Declaration of Performance	No. D30/CPR/13561/13		Year of issue 13
			EN 13561	

1. The product-type:
2. Identification code:

External awning blind VMZ, VMZ Solar, VMZ Z-Wave

According to number on the the casing awning blind



3. Intended use:
4. Manufacturer:
5. Authorised representative:
6. System of assessment and verification of constancy of performance: 4
7. Harmonised standard: EN 13561:2004+A1:2008
8. Initial Type Test: performed by Centre of Building Construction Engineering, Inc., Prague.
9. Declared performance:

for vertical windows

FAKRO Sp. z o.o.
ul. Węgierska 144a,
33-300 Nowy Sącz, Polska
/..

Essential characteristics	Performance	Harmonised technical specification
Wind resistance	Technical class 3	EN 13561:2004+A1:2008

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed on behalf of the manufacturer by:

Ewa Łukaszczyk-Haslik
Ewa Łukaszczyk-Haslik
(Certification and Quality Control Director)

Nowy Sącz, 15/11/2013

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 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.....
 Purchase date.....

Signature (stamp) of installing person

FAKRO Sp. z o.o
144A Wegierska St.
33-300 Nowy Sacz
Poland
www.fakro.com
phone: +48 18 444 0 444
fax: +48 18 444 0 333