

GB

Solar Roller Shutter



ARZ Solar M



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901-GB_ARZ Solar M_22.05.24_FARRO_KB2805 mobile

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ROLLER SHUTTER DESCRIPTION

The ARZ Solar M roller shutter is designed for installation on roof windows and adapted for cooperation with Z-Wave remote control system elements with frequency depending on part of the world.

The ARZ Solar M roller shutter comes with the following protections:

- Electronic limit switch when the roller shutter armour is fully unrolled or rolled up.
- Current limiting to provide protection against damage in the event of an obstacle or when running a snow-covered roller shutter at low temperature.

The functionality of the roller shutter allows the percentage read of the current position in the range of 0-100% by the controller with an indicator.

To operate the roller shutter, it is required to install it following the picture installation instructions included in the product packaging and assign to the Z-Wave controller. The controller* must be purchased separately.

	TECHNICAL SPECIFICATION	
Supply: 14,4VDC, NiMh 2100 mAh Radio reach: Up to 20 m in a building	Protection class: III Protection degree: IP44 Radio protocol: Z-Wave Plus	Radio frequency: EU – 868,4 MHz; AS/NZ – 921,4 MHz; US/Canada – 908,4 MHz; RU – 869 MHz (depending on version).

IMPORTANT INFORMATION

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

It is required to observe the following recommendations when installing electrically operated roller shutter:

- After unpacking, check the roller shutter elements for any signs of mechanical damage.
- Installation should be performed by a qualified person in accordance with manufacturer's instructions.
- Before connecting the roller shutter, make sure that the power supply corresponds with motor voltage specified on the data plate.
- Plastic containers used for packing should be stored out of children reach as they may be a potential source of danger.
- The roller shutter should be used according to its intended design. FAKRO shall not be responsible for any consequences being the result of improper roller shutter use.
- The roller shutter cannot be washed using solvent-based substances or open stream of water (do not immerse it in water).
- Any repairs of the roller shutter should be carried out by service authorised by the manufacturer.
- The roller shutter is intended for outdoor installation.
- In the event of adverse weather conditions (frost, snow) it may not be possible to operate the roller shutter.
- The roller shutter has been factory calibrated. If, after some time, it is necessary to calibrate the roller shutter, it must be performed manually or via a remote control as described in the "Roller Shutter Programming" section.



*CONTROLLER – Z-Waye device such as remote control, module, wall switch, internet gateway

CONTROL PANEL



BASIC FUNCTIONS



__
Press the button once.

Manual control.



Press the button 2 twice.

Programming.





Perform on the button a double-click sequence 3 times.

Restoring device parameters.

Green LED blinks 5 times.



Perform on the button a double-click sequence 5 times.

Device reset.

Green LED is on for 3 seconds.



Press the button four times.

Red LED blinks - follow the MANUAL CALIBRATION chapter.

SIGNALLING



Red LED blinks 3 times.

Overload.



Red LED blinks once.

Low current.



Green LED is on for 3 seconds after pressing the P button.

The device has not been added to the Z-Wave network.



Green LED blinks for 10 minutes.

The Autoinclusion function has been activated. - this function is available only after performing autoexclude procedure.

PROGRAMMING

For programming information refer to the user manual of the controller which is to control the roller shutter.

ADD TO NETWORK
ADD TO GROUP
REMOVE FROM NETWORK
REMOVE FROM GROUP

Run selected function on the Z-Wave controller.

II

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Enter the device into the programming mode by pressing the P button twice.

MANUAL CONTROL









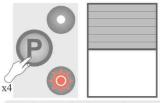




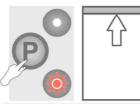
Control the device by pressing the button once. 1. Start, 2. Stop, 3. Start in the opposite direction...

MANUAL CALIBRATION

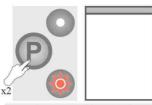
The roller shutter is factory calibrated. If necessary, the calibration process can be repeated. If the roller shutter is not calibrated, the control is possible only by holding the button.



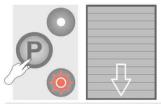
Press the button four times - red LED starts blinking.



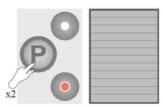
Hold the button until the upper end position is reached. The roller shutter will overload and then retract by 1 cm.



Accept the upper position using the button. Red LED will be on for 1 second and then start blinking.



Hold the button until the lower position is reached. Then release the button.



Accept the lower position using the button. Red LED will be on for 1 second. The roller shutter is calibrated.

ADDITIONAL INFORMATION

ALL ON / ALL OFF

Turning on the function makes it possible to control all devices simultaneously. The function is available if supported by the controller.

Z-WAVE DEVICES COMPATIBILITY

The Z-Wave makes it possible to integrate devices of different manufacturers (lighting, heating, domestic automatic control, etc.). The Z-Wave devices operate as repeaters in the network which extends the communication range of radio waves.

This product is compatible with other certified Z-Wave devices of other manufacturers. All battery-free devices of different manufacturers operating in one Z-Wave network can route through other devices, which can result in increased range.

Note: All information on adding devices to the Z-Wave network in controllers offered by other manufacturers can be found in user manuals of these products.

GRUPY ASOCJACYJNE

- 1. Life Line group for reporting the position of the roller shutter after each stop and receiving information about the alarm (overload). A maximum of 1 device can be in the group.
- 2. Basic Repeat group used for sending received commands of movement (BASIC SET) to devices belonging to this group. A maximum of 5 devices can be in the group.
- 3. Multilevel Repeat group used for sending received commands (SWITCH MULTILEVEL SET, SWITCH MULTILEVEL START LEVEL CHANGE, SWITCH MULTILEVEL STOP LEVEL CHANGE) to devices belonging to these groups. A maximum of 5 devices can be in the group.

Z-WAVE PROCEDURE DESCRIPTION					
			LED signalling		
Function	Function o	MOTOR STATUS LED	Z-WAVE NETWORK STATUS LED		
Autoinclusion	It allows a hard-to-access device to be remot need for pressing the P button. The Autoinclusion procedure is activated aut procedure. The mode is active for up to 10 mir	-	Blinking up to 10 minutes		
Inclusion	The roller shutter can be manually added to th on the controller and then press the P buttor possible provided that the roller shutter is not a		Before: On After: Off		
Association	The roller shutter can be added to the selected twice enters the roller shutter into the Associal Wave network.		÷		
Exclude	The roller shutter can be removed from the Z the controller and then press the P button twice	-	On		
Delete	The roller shutter can be removed from the se procedure in the controller and then press the I	-	-		
Device Reset Locally	Perform on the P button a double-click sequen Device reset.		On for 3 seconds		
Parameter Reset Locally	Perform on the P button a double-click sequence Restoring device default parameters.		Blinking 5 times		
Remote calibration		Send parameter 12 with a value of 2.	On	-	
		Send parameter 12 with a value of 1.	Blinking	-	
		Press the "Up" button and hold until the roller shutter reaches the upper end position.	Blinking	-	
		Press the "Stop" button to accept 1 end position.	It stops blinking and is on for 2 seconds.	÷	
		Press the "Down" button and hold until the roller shutter reaches 2 end position.	Blinking	-	
		Press the "Stop" button to accept 2 end position.	It stops blinking and is on for 2 seconds.	-	

PROBLEMS & ERROR CODES

Voltage during operation	Roller shutter closing	Roller shutter opening
11V – 11.5V	LED blinking twice every 2 seconds.	LED blinking twice every 2 seconds.
<11V	The roller shutter stops after 5 seconds – LED blinking three times every 2 seconds and sending an alarm.	The roller shutter stops after 5 seconds – LED blinking three times every 2 seconds and sending an alarm.
Pre-start voltage	Roller shutter closing	Roller shutter opening
11V – 11.5V	Operation is not allowed – LED blinking twice and sending an alarm.	Operation is allowed – LED blinking twice every 2 seconds.
<11V	Operation is not allowed $-$ LED blinking twice and sending an alarm.	Operation is allowed – the roller shutter stops after 5 seconds – LED blinking twice every 2 seconds and sending an alarm – the roller shutter can be opened in steps.
11V<	High voltage lock: If the supply voltage is higher than 16 motor. This is indicated by the motor status LED blinking	

Z-WAVE CONFIGURATION PARAMETERS

Parameter no.	Value	Default value	Size	Description
12	1 2 3	1	1	1 – calibrated 2 – out of calibration – entering the calibration mode is possible after the previous decalibration 3 – defective encoders
13	1 2	1	1	1 – FF go to maximum 2 – FF go to previous position
99	1 2	1	1	1 – restoring all parameters to factory settings. If there is 2 in the report, it means that one of the parameters has a value other than the default one
100	1 2	1	1	2 – autoexclude

ALARMS & NOTIFICATIONS

Notification type	Event
Energy management	Overload
System	System device failure (defective encoders)

MANUFACTURER SPECIFIC REPORT

Parameter	Value
Manufacturer ID	0x0085
Product Type ID	0x0003
Product ID	0x0011

COMMAND CLASSES

C	Role	
Command Classes	Support	Control
Command Class Z-Wave+ Info v2	ok	
Command Class Basic v1	ok	ok
Command Class Version v2	ok	
Command Class Manufacturer Specific v2	ok	
Command Class Device Reset Locally vl	ok	
Command Class Association v2	ok	
Command Class Association Group Info vl	ok	
Command Class Powerlevel v1	ok	
Command Class Switch Binary v1	ok	
Command Class Switch Multilevel v3	ok	ok
Command Class Switch All v1	ok	
Command Class Configuration v1	ok	
Command Class Notification v3	ok	
Command Class Node Naming v1	ok	
Command Class Battery	ok	

WARRANTY





https://www.fakro.pl/serwis/gwarancja/

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Quality certificate:

Device	
Model	
Serial number	
Seller	
Address	
Purchase date	
nvoice No.	