

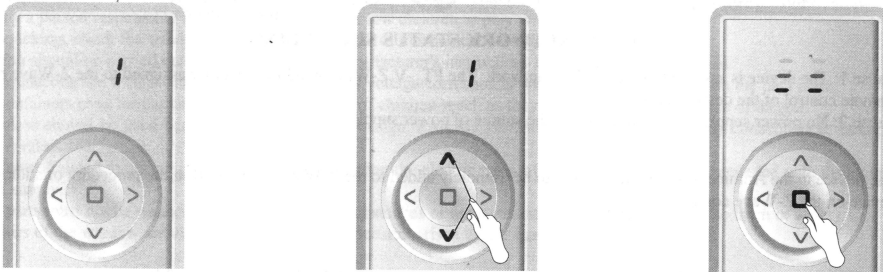
CONTROL

MANUAL CONTROL



Control the window by pressing the manual control button. 1. Start, 2. Stop, 3. Start in the opposite direction...

OPERATION USING THE ZRH12 REMOTE CONTROL



The FT_V Z-Wave window is factory-assigned to the first group of the ZRH12 remote control.

Control the window using UP / DOWN buttons.

Stop the action using STOP button.

i Only these groups are active to which devices have been assigned.

CALIBRATION

MANUAL CALIBRATION

Functionality of the FT_V Z-Wave makes it possible to determine the window opening status with an accuracy of 1%. To make this possible, the calibration process must be carried out.

The limit values of the window are determined in two ways:

- full opening – by means of the limit switch of the actuator,
- full closing – by means of current overload of the actuator.



Hold the programming and manual control buttons at the same time. The window will close automatically...

...and then will open automatically. Once the full opening is reached, the calibration process will be completed.

Once the calibration process is finished, the window will close at a slower speed.

REMOTE CALIBRATION

Remote calibration is possible by means of the remote control. For this purpose send parameter 12 (see Z-Wave configuration parameters – page 7) featuring an appropriate value. The method of changing parameters is described in the remote control manual.

i The calibration process can be stopped by pressing the manual control button. Omitting the calibration process will not allow the full use of the window. When not calibrated, the window works only at a maximum speed.

Z-WAVE DEVICES COMPATIBILITY

The Z-Wave allows to integrate devices of different manufacturers which can work in different groups: 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.

Z-Wave Plus Product in Secure mode.

This device is secured Z-Wave Plus product that can use encrypted Z-Wave Plus messages to communicate with other Z-Wave Plus products with security features.

i 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.

ADVANCED INFORMATION

ASSOCIATION GROUPS

1. Life Line – group for reporting the position of the actuator 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 of movement (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 CONFIGURATION PARAMETERS

Parameter	Parameter No.	Value	Default value	SET (sending)	GET (querying)
Chain extension speed	7	1	2	1 – the slowest 4 – the fastest	1 – the slowest 4 – the fastest
		2			
		3			
		4			
Calibration	12	1	1	1 – calibration 2 – decalibration	1 – calibrated 2 – out of calibration 3 – encoder error
		2			
		3			
Go to position	13	1	1	1 – FF go to maximum 2 – FF go to previous position	-
		2			
Ventilation	15	0 120	0	Close after set time (minute)	Check time till the end of ventilation (minute)
Default settings	99	1	1	1 – default parameters 2 – parameters other than the default	-
		2			
Autoexclusion	100	1	1	2 – autoexclusion	-
		2			

ALARMS AND NOTIFICATIONS

Notification type	Event
Water Alarm	Water Leak detected, Unknow Location
Power Management	Over-load detected

COMMAND CLASSES

Command Classes	Role	
	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 v1	ok	
Command Class Association v2	ok	
Command Class Association Group Info v1	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 Security v1	ok	

MANUFACTURER SPECIFIC REPORT

Parameter	Value
Manufacturer ID	0x0085
Product Type ID	0x0002
Product ID	0x0010

ADVANCED FUNCTIONS

Function	Description	LED indicator	
		Motor status	Z-Wave network status
Resetting the device locally	The Z-Wave device reset without using the Z-Wave controller. Press the P button quickly 5 times, the window will be removed from the Z-Wave network, default parameters, names and locations will be restored.	-	on
Resetting parameters locally	Press the P button quickly 3 times on the actuator.	-	Blinking 5 times
Autoinclusion	Adding a hard-to-access device to the Z-Wave network. Each time the power is switched on, the window enters the Autoinclusion mode provided that it is not assigned to the Z-Wave network. The mode is active for up to 10 minutes.	-	Blinking for 10 minutes

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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 tel. +48 18 4440444, fax +48 18 4440333
 www.fakro.com

Quality certificate:

Device _____

Model _____

Serial number _____

Seller _____

Address _____

Purchase date _____

Invoice No. _____

Signature (stamp) of person installing a device