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Wireless system
F&Wave

FW-WS2 Radio wall switch, 2-button

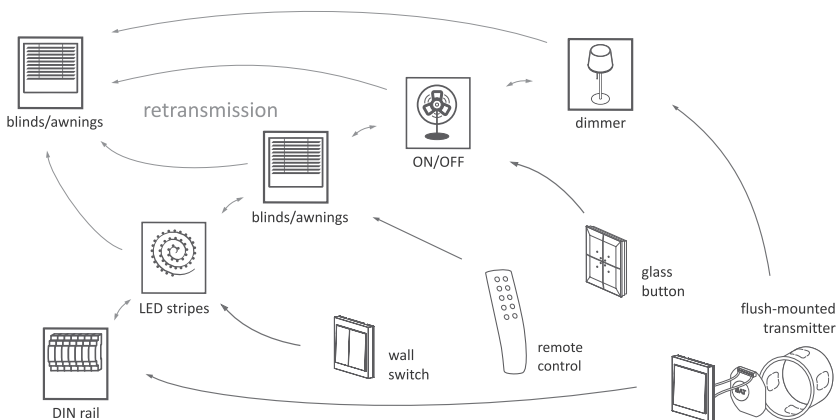


Do not dispose of this device to trash with other unsorted waste! In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the trash or abandoned in the bosom of nature pose a threat to the environment and human health.



Description of the system

F&Wave is a family of wireless devices controlled by radio with a range of up to 100 meters*. The receivers are available in either a DIN-rail mounting version (housing 1S) or a $\varnothing 60$ flush-mounted version. The transmitters are available as handheld remote controllers or as a flush-mounted version. The receivers relay control signals. The device that receives a control signal from the transmitter will automatically send it forward, which allows to increase the range of the remote control.

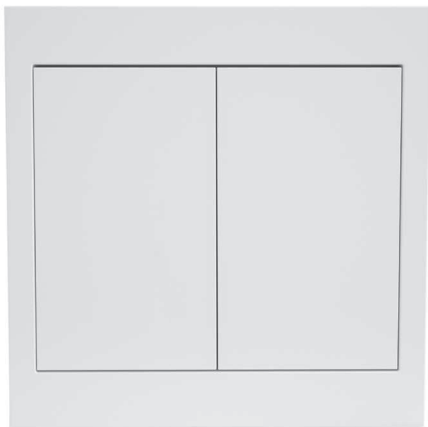


* Range of up to 100 meters in open space without any interfering factors. In building conditions and in the presence of interference sources (power lines, transmitters, etc.) the actual range may be smaller.

Features of the device

- ◆ 2-button remote control transmitter;
- ◆ Works with F&Wave remote control receivers;
- ◆ Ability to control any number of receivers;
- ◆ ON/OFF (bi-stable switch) with receivers: FW-R1P, FW-R1D, FW-R2P, FW-R2D, FW-D1P, FW-D1D, FW-LED2P, FW-LED2D;
- ◆ Raise/lower the roller blind with receivers FW-STR1P, FW-STR1D;
- ◆ Dim/brighten the lighting with receivers FW-D1P, FW-D1D, FW-LED2P, FW-LED2D;
- ◆ Ability to change the configuration of the first button to the ON function - always switch on the paired receivers and/or lift the roller blind;
- ◆ Ability to change the configuration of the second button to the OFF function - always switch off the paired receivers and/or lower the roller blind;
- ◆ Installation does not require a flush-mounted box.

View of the device



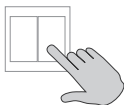
Pairing

1



After you successfully connect the receiver, press and hold the PROG button until the device switches on the output circuit and the communication LED goes off.

2



Press the selected button.

3

If the pairing is correct, the output circuit will be momentary switched off and the LED in the receiver will switch on again.



Exit from the programming mode of the receiver occurs automatically after 30 seconds of waiting for a signal from the transmitter or by briefly pressing the PROG button.



Each channel of the receiver can be paired with eight different transmitters (remote buttons). Pairing with more buttons will remove the first entries made in the receiver.

Unpairing

Unpairing of the wall button from the receiver is only possible by clearing the list of all transmitters in the receiver. To clear the list of transmitters cooperating with the receiver, press and hold the PROG button for a minimum of 10 seconds. Fast flashing of the communication LED indicates that the memory of the controller is cleared.

Button configuration



It is possible to change the configuration of the first S1 button to the ON function and to change the configuration of the second S3 button to the OFF function.

To do this:

①

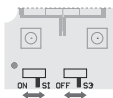


Remove the frame by prying it gently with a flat tool in the cut dedicated to this purpose.

②

Fold up the buttons.

③



Move the switch lever from position S1 to ON (for the first button) and/or move the switch lever from position S3 to OFF (for the second button).

④

Close the buttons and then set up the frame with notch facing up.



Due to the nature of transmission and retransmission it is not recommended to use the same button on the transmitter more often than every 2 seconds. Switching the receiver may occur with a slight delay.



It is not recommended to use remote bi-stable transmitters to control a group of receivers due to the risk of the switching status desynchronization (especially when working with larger distances and/or simultaneous use of the local buttons on the receivers).

Battery replacement

①



Remove the frame by prying it gently with a flat tool in the cut dedicated to this purpose.

②

Fold up the buttons.

③

Remove the battery from the holder.

④

Install a new battery paying close attention to the correct polarity. The "+" sign on the battery up.

⑤

Close the buttons and then set up the frame with notch facing up.



Do not dispose of the used batteries in the trash! User is obliged to hand over waste batteries to the collection point for recyclable materials.

Devices of the F&Wave system

Battery transmitters

Type	Product
Flood sensor	FW-FS1
Remote control	FW-KEY, FW-RC4, FW-RC10
Wall button	FW-WS1, FW-WS2, FW-WS3
	FW-WSO1, FW-WSO2, FW-WSO4
Flush-mounted box ø60	FW-RC5

AC transmitters

Type	Product
Flush-mounted box ø60	FW-GS1, FW-GS2, FW-GS4
	FW-RC4-AC

Receivers

Function	Flush-mounted box ø60	DIN rail
Correct operation of LED light bulbs with devices of the FW-...-NN series	FW-BYPASS-NN	---
Universal dimmer	FW-D1P	FW-D1D
2-channel LED controller	FW-LED2P	FW-LED2D
Single relay	FW-R1P	FW-R1D
Single multifunction relay	FW-R1P-P, FW-R1-P-NN	FW-R1D-P
Double relay	FW-R2P	FW-R2D
Double multifunction relay	FW-R2P-P, FW-R2P-NN	FW-R2D-P
Roller blind controller	FW-STR1P	FW-STR1D
Roller blind multifunction controller	FW-STR1P-P	FW-STR1D-P

Technical data

power supply	3 V DC
battery	CR2032
battery life	approx. 15 hours of broadcasting (pressed button on the switch)
radio frequency	868 MHz
maximum emitted frequency power	10 mW
power consumption	
button pressed	20 mA
standby	15 nA
working temperature	5÷50°C
dimensions	86×86×15 mm
mounting	surface-mounted

Warranty

F&F products are covered by a 24 month warranty from the date of purchase. The warranty is effective only with a proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC. The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

Compliance with the standards

PN-EN 55024:2011
PN-EN 60669-1:2006
PN-EN 60669-2-2:2008
PN-EN 62368-1:2015-03
PN-ETSI EN 300 220-1 V3.1.1:2017-08
PN-ETSI EN 300 220-2 V3.1.1:2017-08
PN-ETSI EN 301 489-1 V2.1.1:2017-08
PN-ETSI EN 301 489-3 V1.6.1:2014-03
E231106