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Wireless system

F&Wave

## FW-GS-230-B

### Radio glass button

### 4-fields

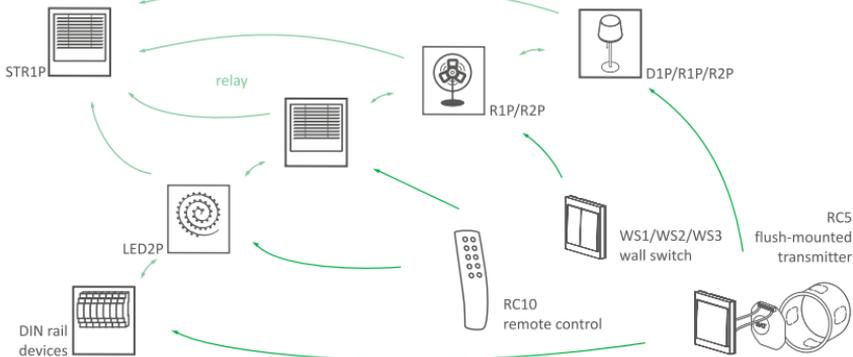


**Do not dispose of this device to thrash with other unsorted waste!** In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the 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 Ø60 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.

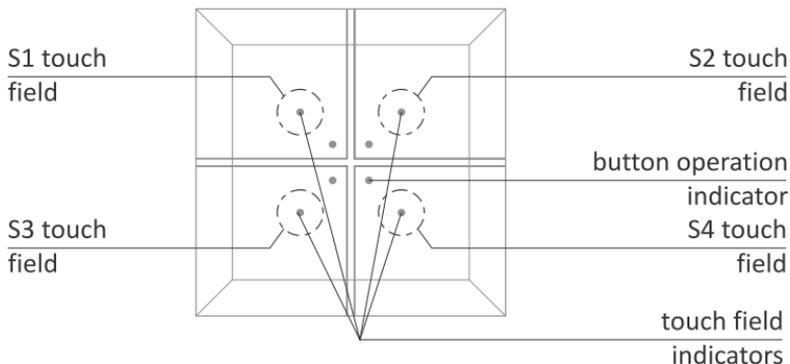


Installation of the device should be carried out by a qualified installer after reading this manual. Make sure that the connection cables are not live before starting the installation work. The method of storage, transport, and operation influences the proper operation of the device.

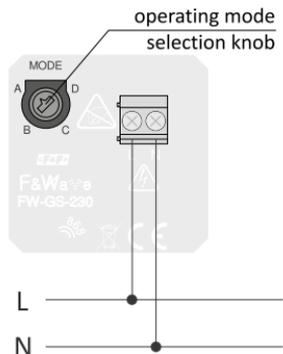
## Module features

- ◆ 4-button remote control transmitter with 230V mains power supply;
- ◆ Cooperation with remote control receivers of the F&Wave system;
- ◆ The ability to control any number of receivers;
- ◆ Functionality depending on the receivers used – bistable (also with a dimmer), monostable, timed, always on, always off;
- ◆ The configuration of the S2 button field can be changed to ON – always switch on paired receivers and/or raise the roller blinds;
- ◆ The configuration of the S4 button field can be changed to OFF – always switch off paired receivers and/or lower the roller blinds;
- ◆ A contactless feature that illuminates the touch fields of the buttons when the hand is in close physical proximity;
- ◆ Button operation indicators;
- ◆ The ability to set levels of backlight brightness;
- ◆ Easy to install in the  $\varnothing 60$  flush-mounted box, thanks to a dedicated mounting element;
- ◆ Low power consumption – low operating cost.

## Description of the device



## Connection



L – power supply L  
N – power supply N



Do not touch the back of the unit when the power is switched on.

## Button configuration



The configuration of the S2 touch field can be changed to ON and the configuration of the S4 touch field to OFF. To do this, select the appropriate mode according to the attached table using the knob located on the housing of the module.

Mode	Input			
A	S1	S2	S3	S4
B	S1	ON	S3	S4
C	S1	S2	S3	OFF
D	S1	ON	S3	OFF



Due to the nature of transmission and retransmission, do not use the same button in the transmitter more often than every 2 seconds. The switchover of the receiver may take place with a short delay.



It is not recommended to use remote bistable transmitters to control a group of receivers because of the risk of desynchronization of the switch-on status (especially in the case of operation at longer distances and/or simultaneous use of local buttons on receivers).

## Pairing



Refer to the user manual of the receiver for a detailed description of pairing and unpairing of the buttons with the receiver.

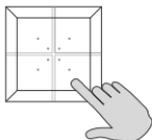
The following is an example of how to handle receivers: FW-R1, FW-R2, FW-STR1, FW-LED2, FW-D1.

①



Once the receiver is correctly connected, press and hold the PROG button until the device switches on the output circuit and the communication LED goes out.

②



Tap the desired touch field.

③

A proper pairing will be confirmed by switching off the output circuit temporarily and turning the LED on again.



Exiting the programming mode of the receiver is automatic after 30 seconds of waiting for the signal from the transmitter or after short pressing the PROG button.

## Unpairing

Unpairing the flush-mounted transmitter from the receiver is only possible by clearing the list of all transmitters in the receiver. To clear the list of transmitters connected to the receiver, press the PROG button and keep it pressed for a minimum of 10 seconds. Rapid blinking of the communication diode will indicate that the controller memory has been cleared.

## Personalization of button operation

The FW-GS4 Glass Buttons allow you to set the brightness level of the indicators in the active state in the range of 50÷100% and in the inactive state in the range of 0÷30%. To set the brightness of the indicators:

- ① Move your finger to the middle of the button and hold it for 10 seconds without activating any of the touch fields - during this operation, the white indicators of all fields will be on.
- ② Entering the personalization mode will be confirmed by the blinking of the orange indicator on the touch field No. 1.
- ③ Using the touch fields No. 3 and 4, set the brightness of the indicators in the inactive state. The set brightness is continuously displayed by white indicators.  
  
In order to confirm the brightness level in the inactive state, press touch field No. 1 (the one with blinking orange indicator), after which the orange indicator in field No. 2 will start to blink to indicate the active personalization mode in the active state.
- ⑤ Using the touch fields No. 3 and 4, set the brightness of the indicators in the active state. The set brightness is continuously displayed by white indicators.  
  
In order to confirm the brightness level in the active state, press touch field No. 2 (the one with blinking orange indicator), after which all indicators will be switched off.
- ⑦ Lack of any user action for 10 seconds will result in exiting the personalization mode while keeping the introduced changes.

## F&Wave system device

Transmitters	Receivers	Ø60 box	DIN rail
<b>flush-mounted</b> FW-RC4-AC, FW-RC5	Single relay	FW-R1P FW-R1P-P	FW-R1D FW-R1D-P
<b>remote controls</b> FW-RC4, FW-RC10, FW-KEY4	Double relay	FW-R2P FW-R2P-P	FW-R2D FW-R2D-P
<b>wall buttons</b> FW-WS1, FW-WS2, FW-WS3	Universal dimmer	FW-D1P	FW-D1D
<b>glass buttons</b> FW-GS-230-B, FW-GS-230-W, FW-GS-24-B, FW-GS-24-W	Roller blind controller	FW-STR1P FW-STR1P-P	FW-STR1D FW-STR1D-P
	Dual-channel LED controller	FW-LED2P	FW-LED2D

## Technical data

power supply	80÷265 V AC/DC
power consumption	
button pressed	0.5 W
standby	0.25 W
radio frequency	868 MHz
working temperature	-25÷65°C
terminal	2.5 mm <sup>2</sup> screw terminals
tightening torque (max)	0.4 Nm
mounting	Ø60 flush-mounted box
dimensions	81×81×12 mm
protection level	IP20

## Warranty

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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. For more information on the procedure for submitting a warranty claim visit our webpage: [www.fif.com.pl/reklamacje](http://www.fif.com.pl/reklamacje)

## Compliance with standards

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RED 2014/53/EU  
PN-EN 55024, PN-EN 60669-1, PN-EN 60669-2-2, PN-EN 62368-1,  
PN-ETSI EN 300 220-1, PN-ETSI EN 300 220-2,  
PN-ETSI EN 301 489-1, PN-ETSI EN 301 489-3.  
CE declaration of conformity is available for download at:  
[www.fif.com.pl](http://www.fif.com.pl).

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