



# Wireless control system EXTA FREE

The EXTA FREE wireless control system is a simple and flexible radio control solution. EXTA FREE is used for controlling lighting, roller shutters and gate drives. The system receivers operate in monostable, bistable and timer mode. It is the user who chooses how the device is supposed to work. The system is therefore completely universal. Among available devices there are those for installation in switchboards (TH35 - DIN rail mounting), flush-mounted devices (60 mm junction box), as well as devices allowing for direct connection to an electrical socket. The EXTA FREE system stands out from the competition thanks to its easy and quick installation process, intuitive operation and low installation costs. The system can be installed and then flexibly extended with new components.

The EXTA FREE system means:

- no need to lay cabling for devices thanks to the use of wireless solutions, and thus low costs and short installation time,
- convenient adaptation of the system to existing installations, without need for modifications,
- possibility of increasing the functionalities of already installed elements of the EXTA FREE system by installing the EFC-01 from EXTA LIFE system (selected receivers only),
- intuitive and trouble-free configuration and operation of the system,
- expanded functionality thanks to a diversified range of EXTA FREE receivers and transmitters.





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**EXTA FREE** is a wireless (radio) control system of the electrical devices' operation in a residential, office and industrial installations. The system includes a group of cooperating devices which operate at 868,32 MHz radio frequency, grouped according to their operation:

### Transmitters and translators



### Receivers



### Accessories



### Sensor



### Radio, GSM switches



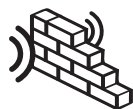
## WIDE OPERATION RANGE

The operating range of EXTA FREE devices in an open area varies between 160 and 300 m. It is possible to apply easily mounted RTN-01 retransmitters by means of which the operating range can be increased up to 1 km. Operation of the wireless devices depends on the type of transmitters and receivers and conditions they operate in. The following table specifies the operating range of EXTA FREE devices in an open area:

	ROP-01	ROP-02 / ROP-07	ROB-01	SRP-02	SRP-03	RWG-01	ROM-01	ROM-10
RNK-02	180 m	200 m	200 m	200 m	200 m	250 m	250 m	250 m
RNK-04	180 m	200 m	200 m	200 m	200 m	250 m	250 m	250 m
P-256/8	230 m	250 m	250 m	250 m	250 m	300 m	300 m	300 m
P-256/36	230 m	250 m	250 m	250 m	250 m	300 m	300 m	300 m
P-257/2	180 m	200 m	200 m	200 m	200 m	250 m	250 m	250 m
P-257/4	180 m	200 m	200 m	200 m	200 m	250 m	250 m	250 m
RNM-10	230 m	250 m	250 m	250 m	250 m	300 m	300 m	300 m
RNP-01	160 m	180 m	180 m	180 m	180 m	200 m	200 m	200 m
RNP-02	160 m	180 m	180 m	180 m	180 m	200 m	200 m	200 m
RNL-01	160 m	180 m	180 m	brak*	brak*	200 m	200 m	200 m
RTN-01	200 m	200 m	200 m	200 m	200 m	250 m	250 m	250 m
RCR-01	160 m	180 m	180 m	brak*	brak*	200 m	200 m	200 m
RXM-01	230 m	250 m	250 m	250 m	250 m	300 m	300 m	300 m
RCL-02	160 m	180 m	180 m	180 m	180 m	200 m	200 m	200 m

\* 1-channel transmitters RNL-01 and RCR-01 do not cooperate with roller shutter controllers SRP-02 and SRP-03.

The range specified in the table applies to device operation in an open area, it means an ideal condition. In case there are any obstacles between the range of a transmitter and a receiver, the following approximate range loss may occur:



brick: 10 ÷ 40%



wood, gypsum: 5 ÷ 20%



concrete: 40 ÷ 80%



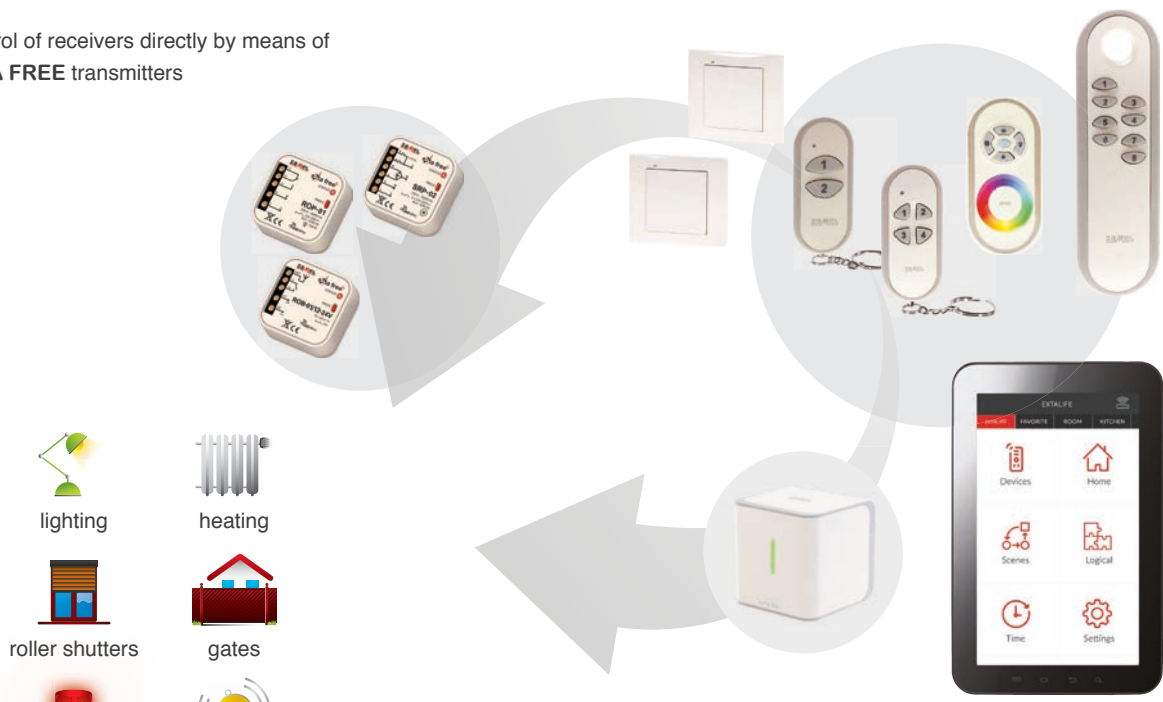
metal: 90 ÷ 100%



glass: 10 ÷ 20%

### Simple and modern

Control of receivers directly by means of EXTA FREE transmitters

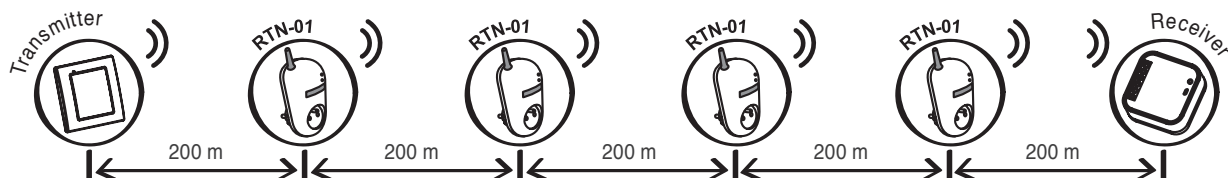


Control of receivers **EXTA FREE** by means of mobile devices due to the EFC-01 EXTA LIFE controller (selected receivers only)



RDP-01	RTN-01	RDP-02	RDP-11	ROP-05	ROP-06	RWS-311J	RWS-311D	RWS-311C
180 m	250 m	180 m	180 m	200 m	200 m	300 m	300 m	300 m
180 m	250 m	180 m	180 m	200 m	200 m	300 m	300 m	300 m
230 m	300 m	230 m	230 m	250 m	250 m	350 m	350 m	350 m
230 m	300 m	230 m	230 m	250 m	250 m	350 m	350 m	350 m
180 m	250 m	180 m	180 m	200 m	200 m	300 m	300 m	300 m
180 m	250 m	180 m	180 m	200 m	200 m	300 m	300 m	300 m
230 m	300 m	230 m	230 m	250 m	250 m	350 m	350 m	350 m
160 m	200 m	160 m	160 m	180 m	180 m	250 m	250 m	250 m
160 m	200 m	160 m	160 m	180 m	180 m	250 m	250 m	250 m
160 m	200 m	160 m	-	180 m	180 m	300 m	300 m	300 m
200 m	250 m	200 m	200 m	200 m	200 m	200 m	200 m	200 m
160 m	200 m	160 m	-	180 m	180 m	-	-	-
230 m	300 m	230 m	230 m	250 m	250 m	300 m	300 m	300 m
160 m	200 m	160 m	-	180 m	180 m	-	-	-

Operating range increase is possible (even up to 1 km) by means of RTN-01 retransmitter



RNK-02 and RNK-04 button radio transmitters are designed to send control signals (switch on / switch off, dimming / brightening, roller shutters up / down, time functions) to the EXTA FREE receivers. The transmitters are made in the form of standard electrical system switches. Due to their small dimensions, weight and smart design the transmitters can be placed on any surface (including glass and wooden surfaces) and at any place in a room.

### 2-channel pushbutton radio transmitter RNK-02 / RNK-02/W



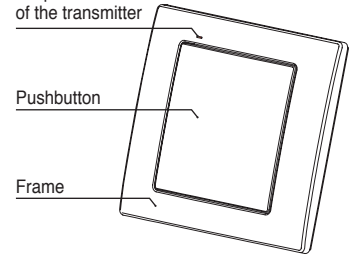
#### Features

- 1-pushbutton radio transmitter,
- remote control of EXTA FREE system receivers,
- ability to independently control two receivers,
- wide operating range (up to 300 m),
- battery-powered,
- easy installation and mounting in any place with the use of double-sided tape or screws,
- colours: cream-coloured (RNK-02), white (RNK-02/W).

Optical indicator  
of operation  
of the transmitter

Pushbutton

Frame



### 4-channel pushbutton radio transmitter RNK-04 / RNK-04/W



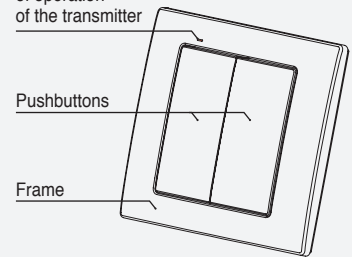
#### Features

- 2-pushbuttons radio transmitter,
- remote control of EXTA FREE receivers,
- ability to independently control four receivers,
- wide operating range (up to 300 m),
- battery-powered,
- easy installation and mounting in any place with the use of double-sided tape or screws,
- colours: cream-coloured (RNK-02), white (RNK-02/W).

Optical indicator  
of operation  
of the transmitter

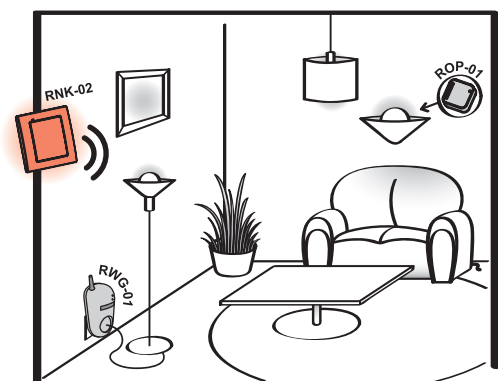
Pushbuttons

Frame



#### RNK-02 – APPLICATION

RNK-02 button radio transmitter controls the operation of radio receiver ROP-01 (switch on/switch off) or remote control socket RWG-01.

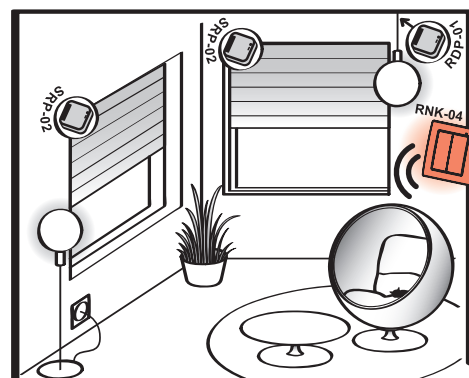


## Technical data

Symbol:	RNK-02 / RNK-02/W	RNK-04 / RNK-04/W
Nominal supply voltage:	3 V DC – battery CR2032	
Operating range:	up to 300 m in an open area	
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	transmission with addressing	
Number of channels:	2	4
Optical signalling of transmission/battery status:	red LED diode	
Battery life:	3 ÷ 5 years (depends on the usage)	
Temperature operating range:	-10 ÷ +55°C	
Casing protection degree:	IP20	
Dimensions:	90 x 80 x 11,5 mm	
Weight:	0,038 kg	
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2	

### RNK-04 – APPLICATION

Radio button transmitter RNK-04 controls the operation of RDP-01 radio flush dimmer (switching on / switching off or brightening / dimming) or SRP-02 roller shutter controller (roller shutter raising / lowering).





The wireless system remote control devices are available in 2-channel (P-257/2), 4-channel (P-257/4), 8-channel (P-256/8) and 36-channel (P-256/36) versions. The devices are general transmitters for the other devices to control the lighting, roller shutters, driveway and garage gate control systems. The remote controls are equipped with backlight components to signal the transmitter's operation, an ergonomic rubber keyboard and useful small chains for joining the device to the keys.

### 2-channel remote control P-257/2

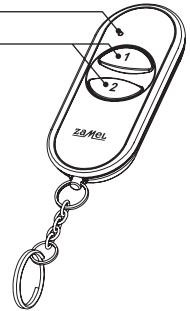


#### Features

- radio transmitter (remote control), 2-buttons,
- remote control of EXTA FREE system receivers,
- a possibility of controlling two receivers independently,
- wide operating range (up to 300 m),
- battery operated.

Optical indication of operation of the transmitter

Buttons



### 4-channel remote control P-257/4

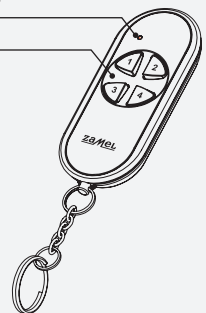


#### Features

- radio transmitter (remote control), 4-buttons,
- remote control of EXTA FREE system receivers,
- a possibility of controlling four receivers independently,
- wide operating range (up to 300 m),
- battery operated.

Optical indication of operation of the transmitter

Buttons



### 8-channel remote control P-256/8

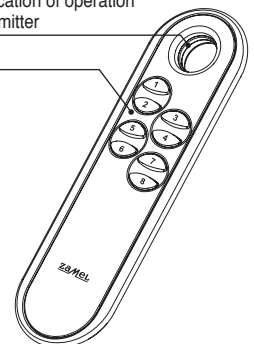


#### Features

- radio transmitter (remote control), 8-buttons,
- remote control of EXTA FREE system receivers,
- a possibility of controlling eight receivers independently,
- wide operating range (up to 300 m),
- battery operated.

Optical indication of operation of the transmitter

Buttons



### 36-channel remote control P-256/36



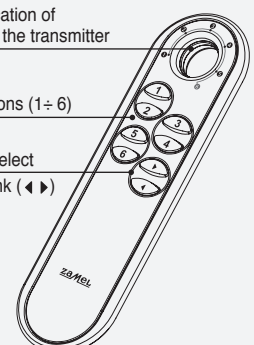
#### Features

- radio transmitter (remote control), 8-buttons – 36 channels,
- remote control of EXTA FREE system receivers,
- ability to independently control 36 receivers or 18 roller shutters,
- wide operating range (up to 300 m),
- battery-powered.

Optical indication of operation of the transmitter

Control buttons (1÷ 8)

Buttons to select a button bank (◀ ▶)

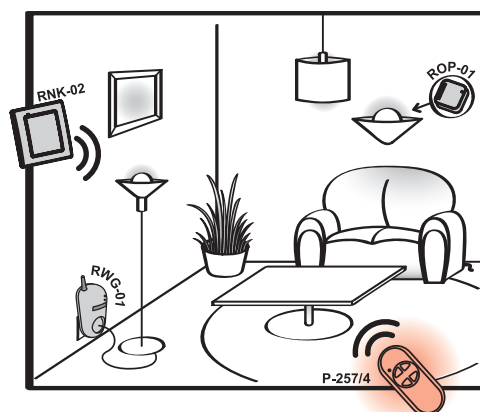


## Technical data

Symbol:	P-257/2	P-257/4	P- 256/8	P- 256/36
Nominal supply voltage:	3 V DC – battery CR2032			
Operating range:	up to 300 m in an open area		up to 350 m in an open area	up to 300 m in an open area
Transmission:	radio 868,32 MHz			
Transmission way:	one-way			
Coding:	transmission with addressing			
Number of channels:	2	4	8	36
Optical signalling of transmission/battery status:	red LED diode		2 x red LED diode	5 x red LED diode
Battery life:	3 ÷ 5 years (depends on the usage)			
Temperature operating range:	-10 ÷ +55°C			
Casing protection degree:	IP20			
Dimensions:	74 x 33 x 11,5 mm		152 x 43 x 17,5 mm	
Weight:	0,018 kg		0,056 kg	0,060 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2			

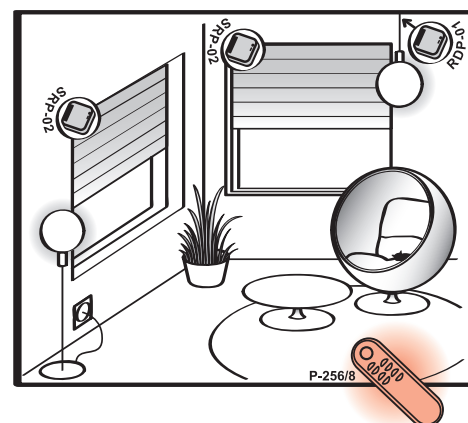
### P-257/4 – APPLICATION

P-257/4 4-channel remote control operates as a transmitter of radio receiver ROP-01 and of remote control socket RWG-01. RNK-02 radio button transmitter is also device of EXTA FREE system.



### P-256/8 – APPLICATION

P-256/8 remote control can cooperate with any transmitter of EXTA FREE system. In this application it is used to control roller shutters and lighting. Roller shutter controllers SRP-02 can be controlled centrally or independently (locally) and RDP-01 radio dimmer allows to control lighting.

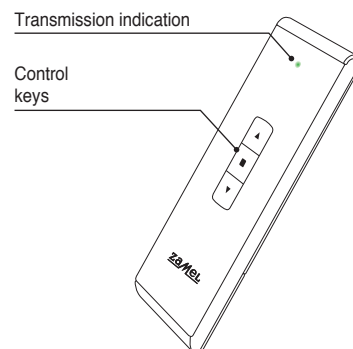


### 1-channel remote control P-301



#### Features

- 1-channel radio remote control,
- 3 control keys,
- dedicated to work with roller blind controllers,
- can control a maximum of two groups of roller blinds,
- works with EXTA LIFE or EXTA FREE system receivers,
- battery-operated,
- modern design,
- long operating range (up to 300 m),
- transmission / low battery optical indication.

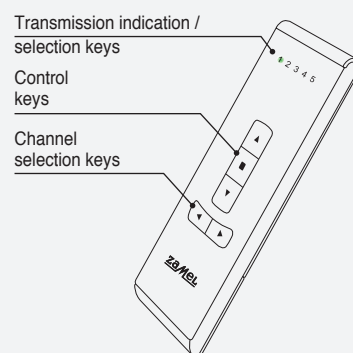


### 20-channel remote control P-320



#### Features

- 20-channel radio remote control,
- 3 control keys + 2 channel selection keys,
- dedicated to work with roller blind controllers,
- independent control of a maximum of 20 roller blinds,
- several groups of roller blinds can be created,
- works with EXTA LIFE and EXTA FREE system receivers,
- battery-operated,
- modern design,
- long operating range (up to 300 m),
- transmission / low battery optical indication.

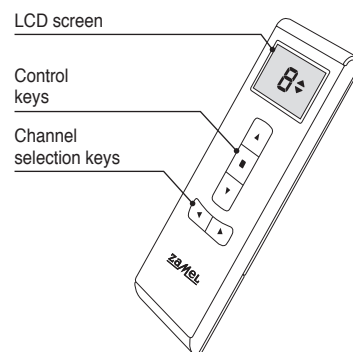


### Remote control with an LCD P-321/L



#### Features

- 20-channel radio remote control,
- controlled by means of 5 keys and a clear LCD screen,
- dedicated to work with roller blind controllers,
- independent control of a maximum of 20 roller blinds,
- roller blinds can be grouped,
- works with EXTA LIFE and EXTA FREE system receivers,
- timer for implementation of time functions directly from the remote control level,
- battery-operated,
- modern design,
- long operating range (up to 300 m).



## Technical data

<b>Symbol:</b>	P-301	P-320	P-321/L
<b>Nominal supply voltage:</b>	3 V DC – CR2430 battery		
<b>Operating range:</b>	300 m		
<b>Transmission:</b>	radio 868,32 MHz		
<b>Transmission way:</b>	one-way		
<b>Functionality:</b>	<ul style="list-style-type: none"> <li>• dedicated to work with roller blind controllers</li> <li>• works with EXTA FREE system receivers               <ul style="list-style-type: none"> <li>• local and central roller blind control</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>• dedicated to work with roller blind controllers</li> <li>• works with EXTA FREE system receivers               <ul style="list-style-type: none"> <li>• clear LCD screen</li> </ul> </li> <li>• timer function enabling direct implementation of the time functions from the remote control level</li> </ul>
<b>Number of channels:</b>	1	20	20
<b>Optical signalling:</b>	1 x LED (transmission / battery low)	5 x LED (transmission / bank (channel) selection / battery low)	LCD screen
<b>Signalling of transmission:</b>	red colour		LCD screen
<b>Battery life:</b>	3 - 5 years (depending on the operational use)		2 - 3 years (depending on the operational use)
<b>Temperature operating range:</b>	-10 ÷ +55°C		
<b>Casing protection degree:</b>	IP20		
<b>Dimensions:</b>	130 x 45 x 10 mm		130 x 45 x 10 mm
<b>Weight:</b>	0,085 kg	0,095 kg	0,105 kg

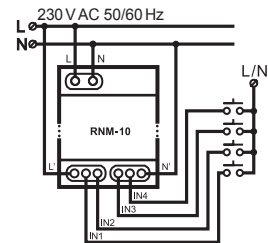
The modular EXTA FREE system transmitters allow to transmit control signals from a building main distribution board or any other place where the building automation devices are mounted on TH-35 rail. These devices are a natural extension of the possibilities of standard wired EXTA building automation devices, and may cooperate with any home automation system. Additionally, RXM-01 RS485/EXTA FREE translator makes it possible to connect the intelligent building systems or controllers / programmable relays with EXTA FREE system by means of RS485 standard link.

### 4-channel radio modular transmitter RNM-10



#### Features

- a possibility of integration (control signals' transmission) with wired control systems (e.g. EXTA building automation system, relays and time programmers mounted inside a distribution board, etc.)
- a possibility of controlling four receivers independently
- wide operating range (up to 300 m)
- optical signalling of information transmission
- a possibility of switching on / switching off any number of the EXTA FREE receivers simultaneously
- a possibility of connecting ANT-01 external antenna mounted outside a distribution board.

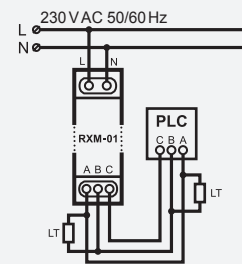


### RS485 / EXTA FREE translator RXM-01



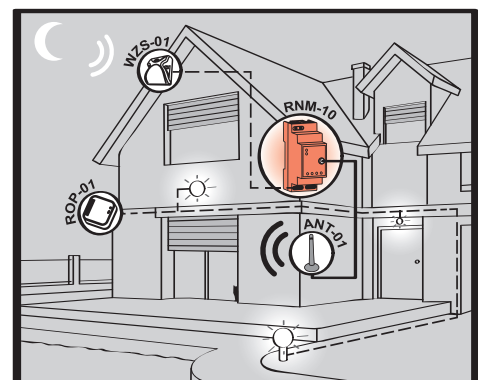
#### Features

- cooperation with EXTA FREE system wireless transmitters and receivers
- cooperation with devices operating in MODBUS standard (e.g. PLCs)
- mounted on TH-35 rail
- wide operating range (up to 300 m)
- power supply and data transmission optical signalling
- a possibility of connecting ANT-01 external antenna mounted outside a distribution board



#### RNM-10 – APPLICATION

Radio modular transmitter RNM-10 receives a control signal from WZS-01 twilight switch and sends it to ROP-01 radio receiver. ANT-01 external antenna increases the operating range of this device.

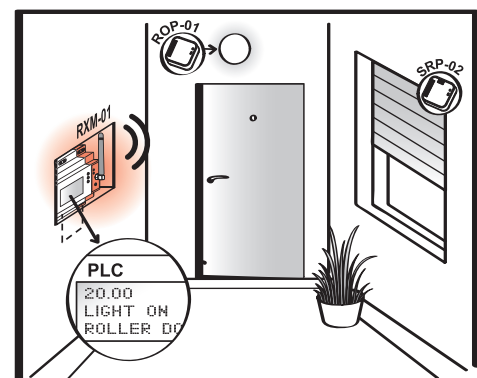


## Technical data

Symbol:	RNM-10	RXM-01
Nominal supply voltage:	230 V AC	
Nominal frequency:	50 / 60 Hz	
Nominal power consumption:	0,35 W	0,49 W
Optical signalling of supply voltage:	green LED diode	
Number of channels:	4	127
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	transmission with addressing	
RS485 terminals:	-	A (D0), B (D1), C (common)
Applied communication protocols:	-	Modbus RTU, Modbus ASCII
Baud rate:	-	2400, 4800, 9600, 19200 bit/s
Parity:	-	none, even parity check, odd parity check
Network address:	-	0 (broadcast address), 1 ÷ 247
Operating range:	up to 350 m in an open area	up to 300 m
Radio transmission optical signalling:	red LED diode	-
Input status optical signalling:	4x red LED diode	-
Temperature operating range:	-10 ÷ +55°C	
Cross-section of the connecting cables:	up to 2,5 mm <sup>2</sup>	
Casing mounting:	TH-35 rail (according to PN-EN 60715)	
Casing protection degree:	IP20	
Dimensions:	90 x 35 x 66 mm	90 x 17,5 x 66 mm
Weight:	0,087 kg	0,070 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2	

### RXM-01 – APPLICATION

RS485/EXTA FREE translator RXM-01 allows to transmit control signals from PLC controller (which is installed in a distribution board) to wireless EXTA FREE system control devices (ROP-01 radio receiver, SRP-02 radio roller shutter controller).



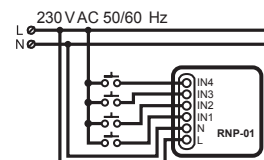
RNP-01, RNP-02 radio flush transmitters allow to realize the device control function within EXTA FREE by means of flush mounted devices – under the existing accessories (NO switches, “light” and “doorbell” push buttons). The solution is an advantage in the form of easy installation of EXTA FREE system without the necessity of interference in the existing electrical system. Another benefit is a possibility of application electrical accessories of different manufacturers, so there are no limitations of design and inside atmosphere.

### 4-channel flush radio transmitter RNP-01

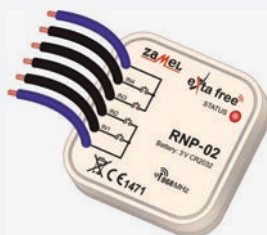


#### Features

- radio transmitter for mounting in a Ø60 mm junction box,
- 230 V AC supply voltage,
- EXTA FREE receivers remote control,
- connection possibility to the existing standard electrical system push buttons "doorbell",
- low power consumption, designed for continuous operation,
- a possibility of controlling four receivers independently,
- a possibility of simultaneous switching on / switching off any number of the EXTA FREE receivers.

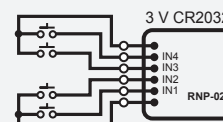


### 4-channel flush radio transmitter RNP-02



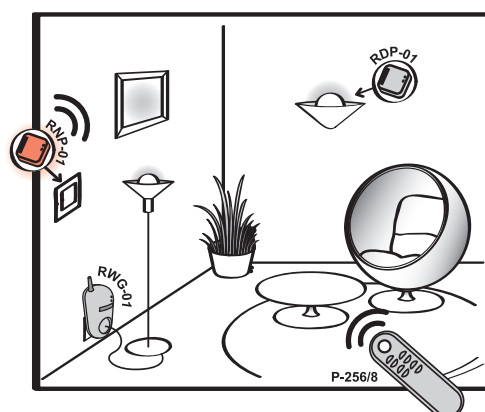
#### Features

- radio transmitter for mounting in a Ø60 mm junction box,
- battery operated,
- connection possibility to the existing standard electrical system push buttons "doorbell",
- four control inputs (voltage free),
- low power consumption, designed for continuous operation,
- a possibility of controlling four receivers independently,
- wide operating range (up to 250 m),
- optical signalling of information transmission,
- a possibility of simultaneous switching on / switching off any number of the EXTA FREE receivers.



#### RNP-01 – APPLICATION

4-channel radio flush transmitter RNP-01 controls the operation of 1-channel radio dimmer RDP-01 (switching on / switching off or lighting brightening / dimming) or remote control socket RWG-01 (switching on / switching off). The receivers can also be controlled by P-256/8 8-channel remote control. RNP-01 device can be mounted under the existing lighting push buttons (required 230 V AC power supply – L and N wires).

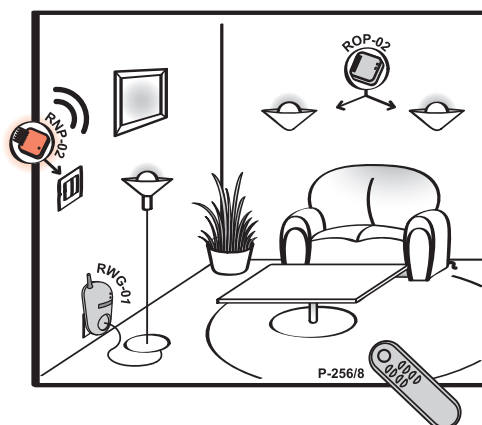


## Technical data

Symbol:	RNP-01	RNP-02
Nominal supply voltage:	230 V AC	3 V DC – battery CR2032
Nominal frequency:	50 / 60 Hz	-
Nominal power consumption:	0,22 W	-
Number of channels:	4	
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	transmission with addressing	
Operating range:	up to 250 m in an open area	
Optical signalling of radio transmission:	red LED diode	
Optical signalling of battery discharge:	-	red LED diode
Temperature operating range:	-10 ÷ +55°C	
Cross-section of the connecting cables:	0,2 ÷ 2,5 mm <sup>2</sup>	1 mm <sup>2</sup>
Casing mounting:	Ø60 mm junction box	
Casing protection degree:	IP20	
Dimensions:	47,5 x 47,5 x 20 mm	47,5 x 47,5 x 13 mm
Weight:	0,031 kg	0,023 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2, EN 60950, EN 61000	ETSI EN 300 220-1, ETSI EN 300 220-2

### RNP-02 – APPLICATION

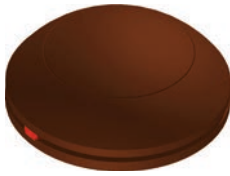
4-channel radio transmitter RNP-02 controls the operation of 2-channel radio receiver ROP-02 (switching on / switching off, time switch off) or remote control socket RWG-01 (switching on / switching off). The receivers can also be controlled by P-256/8 8-channel remote control. The RNP-02 device does not require connection to 230 V AC.





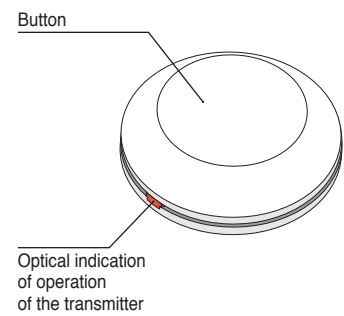
Radio foot transmitter RNL-01 is a control solution by means of a foot-operated switch - for placing on the floor or other flat surfaces. RNL-01, RCR-01 1-channel transmitter do not interoperate with SRP-02 and SRP-03 roller shutter controllers.

### Radio foot transmitter RNL-01



#### Features

- radio transmitter, 1-channel,
- remote control of EXTA FREE system receivers,
- wide operating range (up to 300 m),
- device mounting and wiring are not required,
- battery operated,
- optical signalling of transmission and battery status.

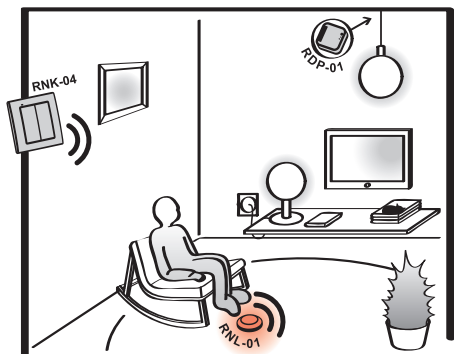


## Technical data

Symbol:	RNL-01
Nominal supply voltage:	3 V DC – battery CR2032
Nominal frequency:	-
Nominal power consumption:	-
Number of channels:	1
Twilight sensor adjustment range:	-
Transmission:	radio 868,32 MHz
Transmission way:	one-way
Coding:	transmission with addressing
Operating range:	up to 250 m in an open area
Optical signalling of radio transmission:	red LED diode
Temperature operating range:	-10 ÷ +55°C
Casing protection degree:	IP20
Dimensions:	Ø75 x 40 mm
Weight:	0,040 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2

### RNL-01 – APPLICATION

Radio foot transmitter RNL-01 controls the operation of RDP-01 radio dimmer (switching on / switching off, light brightening / dimming). The receivers can also be controlled by 4-channel button radio transmitter RNK-04.



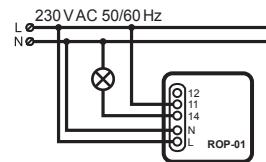
Radio receivers are used both as elements in flush and surface mounting (junction box) and as an actuator built directly in lighting fittings and other receivers. ROP-05 and ROP-06 receivers are designed to realise simple control functions in low-voltage 10 ÷ 14 V DC installations. ROP-05 is equipped with two output relays (dry contacts) NO type and ROP-06 is designed to directly control LED circuits (3 circuits maximum).

### 1-channel radio receiver ROP-01



#### Features

- 1 NO/NC output relay (dry contacts),
- lighting, heating operation control,
- easy flush mounting (in Ø60 mm junction box),
- 5 operation modes: switching on, switching off, monostable mode, bistable mode, time mode (switch off delay),
- low current consumption, possibility of continuous operation
- control by means of mobile devices (in cooperation with EFC-01).



#### Load capacity

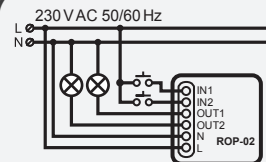
- ☀ 750 W AC5b
- LED 100 W
- ☐ 250 W AC5a
- ☐ 500 W AC5a
- ☐ 375 W AC5a

### 2-channel, junction box – mounted radio receiver ROP-02 / ROP-07



#### Features

- two output relays (change-over contacts with voltage 230 V AC),
- control of lighting, heating, others,
- easy installation in flush mount junction box Ø60 mm,
- 5 operation modes: switch on, switch off, monostable, bistable, timer (delayed switch off),
- low power consumption, ability to operate continuously,
- ROP-07 cooperates with bipolar switches
- control by means of mobile devices (in cooperation with EFC-01).



#### Load capacity

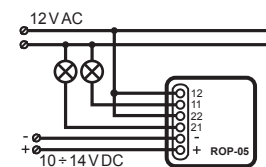
- ☀ 750 W AC5b
- LED 60 W
- ☐ 250 W AC5a
- ☐ 500 W AC5a
- ☐ 375 W AC5a

### 2-channel radio receiver ROP-05



#### Features

- 2 NO/NC output relay (dry contacts),
- maximum dry contacts capacity (2 x 5 A / 250 V AC)
- low-voltage installation control,
- 5 operation modes: switching on, switching off, monostable mode, bistable mode, time mode (switch off delay),
- wide operating range (up to 250 m),
- low current consumption in the stand-by mode – designed for continuous operation
- control by means of mobile devices (in cooperation with EFC-01).

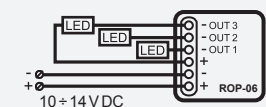


### 3-channel radio receiver ROP-06



#### Features

- three MOSFET transistor outputs with a maximum load capacity of 2,5 A
- used in low-voltage installation control,
- direct connection possibility of LED sources (10 ÷ 14 V DC),
- 5 operation modes: switching on, switching off, monostable mode, bistable mode, time mode (switch off delay),
- wide operating range (up to 250 m),
- low current consumption in the stand-by mode – designed for continuous operation,
- control by means of mobile devices (in cooperation with EFC-01).

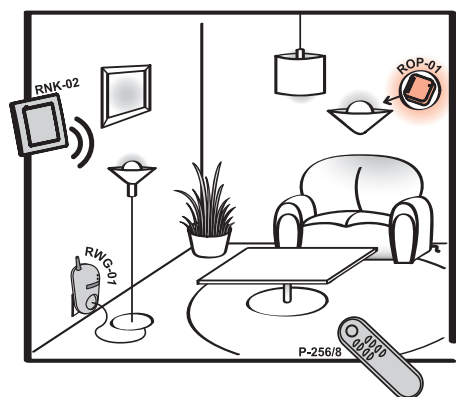


## Technical data

<b>Symbol:</b>	ROP-01	ROP-02 / ROP-07	ROP-05	ROP-06
<b>Nominal supply voltage:</b>	230 V AC		10 ÷ 14 V DC	
<b>Nominal frequency:</b>	50 / 60 Hz		-	
<b>Nominal power consumption:</b>	0,29 W	<ul style="list-style-type: none"> <li>• 0,39 W "stand-by" mode</li> <li>• 0,69 W 1-channel operation mode</li> <li>• 1,09 W 2-channel operation mode</li> </ul>	<ul style="list-style-type: none"> <li>• 0,15 W – "stand-by"</li> <li>• 0,7 W – 2-channel operation</li> </ul>	0,22 W
<b>Number of channels:</b>	1	2	2	3
<b>Maximum number of transmitters:</b>	32			
<b>Operation modes of EXTA FREE system transmitters:</b>	<ul style="list-style-type: none"> <li>• switching on</li> <li>• switching off</li> <li>• monostable</li> <li>• bistable</li> <li>• time</li> </ul>			
<b>Transmission:</b>	radio 868,32 MHz			
<b>Transmission way:</b>	one-way			
<b>Coding:</b>	transmission with addressing			
<b>Operating range:</b>	up to 230 m in an open area	up to 250 m in an open area		
<b>Optical signalling of radio transmission:</b>	red LED diode			
<b>Relay contact parameters:</b>	1 NO / NC 5A / 250 V AC1 1250 VA	2 NO 5A / 250 V AC1 1250 VA	-	
<b>Maximum output capacity:</b>	5 A	2 x 5 A / 250 V AC	3 x 2,5 A	
<b>Temperature operating range:</b>	-10 ÷ +55°C			
<b>Casing protection degree:</b>	IP20			
<b>Dimensions:</b>	47,5 x 47,5 x 20 mm			
<b>Weight:</b>	0,043 kg	0,039 kg	0,036 kg	0,025 kg
<b>Reference standard:</b>	EN 60669, EN 60950, EN 61000			

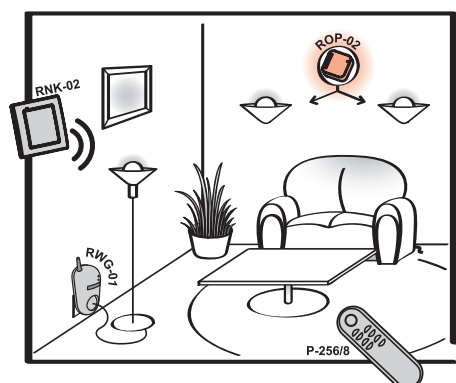
### ROP-01 – APPLICATION

1-channel radio receiver ROP-01 operates as a receiver of 8-channel remote controller P-256/8 and of 2-channel button radio transmitter RNK-02 (light sources switching on / switching off control). The above mentioned transmitters can also control operation of remote control socket RWG-01.



### ROP-02 – APPLICATION

2-channel radio receiver ROP-02 operates as a receiver of 8-channel remote control P-256/8 and of 2-channel button radio transmitter RNK-02 (light sources switching on / switching off control). The above mentioned transmitters can also control operation of remote control socket RWG-01.



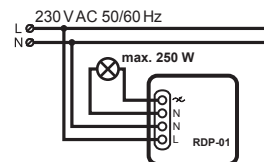
Radio dimmer RDP-01 cooperates with light bulbs, halogen and compact fluorescent lamps equipped with electronic power supply (EVG). The one-colour controller RDP-02 is dedicated to control monochrome LED light sources with 10 to 14 V DC supply voltage. It realizes the following functions: switching on, switching off and luminous flux intensity adjustment. RDP-11 controller is dedicated to LED RGB products. The presented controllers cooperate with EXTA FREE system transmitters, dedicated RGB touch remote control P-260 and mobile devices (in cooperation with EFC-01).

### 1-channel radio dimmer RDP-01



#### Features

- light sources switching on / switching off, brightening / dimming,
- cooperation with light bulbs, compact fluorescent lamps powered by electronic or toroidal power supply transformers,
- memory of the adjusted luminous flux intensity level,
- easy installation in Ø60 mm junction box,
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 230 m),
- operation is optically signalled,
- low current consumption, possibility of continuous operation.



#### Load capacity

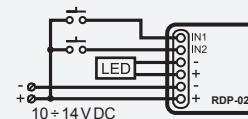
- 250 W AC5b
- LED 40 W
- 250 W AC5a
- 250 W AC5a
- 250 W AC5a

### One-colour LED controller RDP-02



#### Features

- brightening / dimming of the monochrome LED sources with 10 ÷ 14 V DC supply voltage,
- one transistor output with a maximum load capacity of 4 A,
- wired or wireless control,
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 230 m),
- operation is optically signalled,
- low current consumption in stand-by mode.

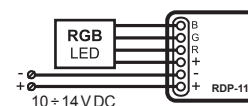


### Wireless RGB controller RDP-11



#### Features

- 3 transistor output (3 x 2,5 A),
- 1 out of 10 colour selection, automatic fluent colour change, luminous flux intensity adjustment (for EXTA FREE transmitters),
- strobe colour change, colour selection from the touch field, white colour temperature adjustment (only for P-260 remote control),
- PWM adjustment with a resolution of 9-bits,
- control by means of mobile devices (in cooperation with EFC-01).

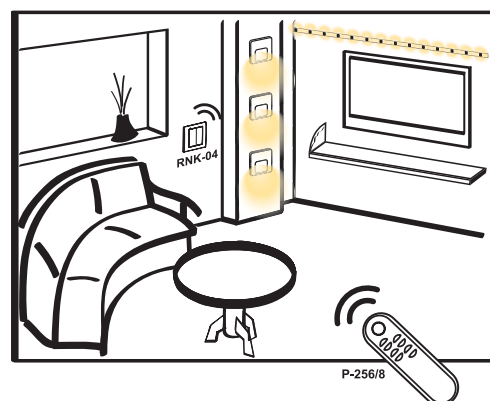


## Technical data

Symbol:	RDP-01	RDP-02	RDP-11
Nominal supply voltage:	230 V AC	10 ÷ 14 V DC	
Nominal frequency:	50 / 60 Hz	-	
Nominal power consumption:	0,50 W	0,22 W	
Number of channels:	1	3	
Maximum number of transmitters:	32		
Operation modes for EXTA FREE system transmitters:	<ul style="list-style-type: none"> <li>• comfortable</li> <li>• one push button (bistable)</li> <li>• two push button (switch on / switch off</li> <li>• time</li> </ul>	<ul style="list-style-type: none"> <li>• switch on / switch off</li> <li>• brightening /dimming</li> <li>• time with dimmer</li> </ul>	<ul style="list-style-type: none"> <li>• switch on / switch off</li> <li>• colour selection (1 out of 10)</li> <li>• brightening /dimming</li> <li>• automatic fluent colour change (FLOATING)</li> </ul>
Operation modes for P-260 remote control:	-	-	<ul style="list-style-type: none"> <li>• switch on / switch off</li> <li>• colour selection from a touch field</li> <li>• brightening /dimming</li> <li>• automatic fluent colour change (FLOATING),</li> <li>• automatic strobe colour change (STROBE)</li> </ul>
Control type:	wireless	wireless / wired	wireless
Transmission:	radio 868,32 MHz		
Transmission way:	one-way		
Coding:	transmission with addressing		
Operating range:	up to 230 m in an open area		
Optical signalling of operation:	red LED diode		
Relay contact parameters:	-	2 NO 5A / 250 V AC1 1250 VA	-
Maximum power load capacity:	250 W	-	250 W
Temperature operating range:	-10 ÷ +55°C		
Casing protection degree:	IP20		
Dimensions:	47,5 x 47,5 x 20 mm		
Weight:	0,034 kg	0,025 kg	0,027 kg
Reference standard:	EN 60669, EN 60950, EN 61000		

### RDP-11 – APPLICATION

Radio dimmer RDP-11 controls LEDIX lighting fittings with RGB diodes and LED RGB strip. It communicates with P-256/8 portable remote control and wall transmitter RNK-04 in a wireless way. By means of the above mentioned transmitters it is possible to select 1 out of 10 colours (default setting), change the luminous flux intensity and enter the fluent automatic colour change mode. In cooperation with EFC-01 controller it is possible to control RGB lighting by means of mobile devices.



P-256/8

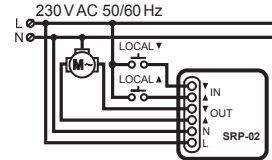
SRP-02, SRP-03 roller shutter controllers allow to create the roller shutter control systems by means of EXTA FREE wireless system. The SRP-02 controller allows to realise roller shutter local and central control and additionally can save comfort operating modes. SRP-03 controller enables the integration of wired roller shutter controllers SRP-01 and SRM-10 and other manufacturer's devices with EXTA FREE radio control system. Both controllers are fitted with wired control inputs that allow for a control by means of EXTA FREE transmitters as well as typical roller shutter control switches.

### Radio roller shutter controller SRP-02



#### Features

- cooperation with EXTA FREE wireless control system transmitters,
- control of the roller shutter drives,
- a possibility of local wired control (by means of a roller shutter control switch),
- comfort operating modes – upper and lower (a possibility of memorising the roller shutter vertical position),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 250 m)
- low power consumption, a possibility of continuous operation.

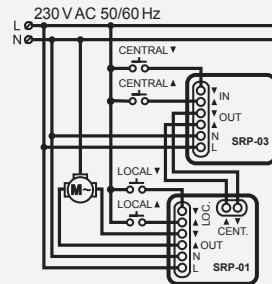


### Central radio roller shutter controller SRP-03



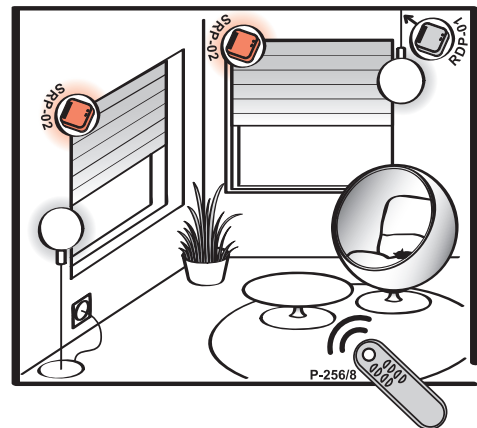
#### Features

- cooperation with EXTA FREE wireless control system transmitters
- cooperation with wired roller shutter controllers SRP-01, SRM-10 of EXTA series and controllers from other manufacturers,
- a possibility of wireless control of the existing roller shutters with the group / central wired control installation,
- a possibility of local wired control (by means of a roller shutter control switch),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 250 m)
- low power consumption, a possibility of continuous operation.



#### SRP-02 – APPLICATION

Roller shutter control system realised by means of SRP-02 roller shutters controllers. One controller can be used for one roller shutter only. Each of the controllers is operated by means of a wireless P-256/8 remote control.

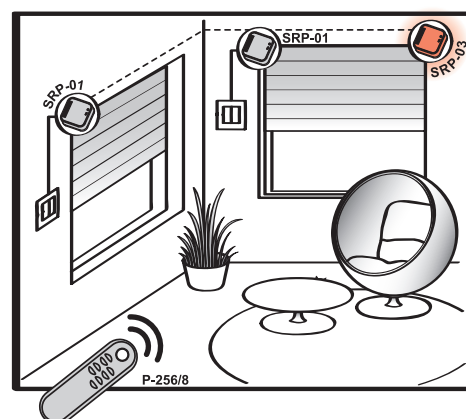


## Technical data

Symbol:	SRP-02	SRP-03
Nominal supply voltage:	230 V AC	
Nominal frequency:	50 / 60 Hz	
Nominal power consumption:	<ul style="list-style-type: none"> <li>• 0,4 W "stand-by" mode</li> <li>• 0,7 W operation mode</li> </ul>	
Optical signalling of roller shutter movement:	red LED diode	
Programmable time for the comfort mode:	1 ÷ 120 s	-
Wired control terminals:	LOCAL ▲ (up), ▼ (down)	LOCAL/CENTRAL ▲ (up), ▼ (down)
Drive control terminals:	▲ (up), ▼ (down)	-
Output terminals:	-	OUT ▲ (up), ▼ (down) - wired central control
Optical signalling of operation:	red LED diode	
Maximum number of transmitters:	32	
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	transmission with addressing	
Operating range:	up to 250 m in an open area	
Relay contact parameters:	2 NO 5 A / 250 V AC1 1250 VA	
Temperature operating range:	-10 ÷ +55°C	
Cross-section of the connecting cables:	up to 2,5 mm <sup>2</sup>	
Casing protection degree:	IP20	
Dimensions:	47,5 x 47,5 x 20 mm	
Weight:	0,039 kg	
Reference standard:	EN 60669, EN 60950, EN 61000	

### SRP-03 – APPLICATION

Roller shutters control system realized by means of wired roller shutter controllers SRP-01. One controller can be used for one roller shutter only. Each of the controllers is equipped with local control push button and connected inputs of central control, which allow to close or open a given group of roller shutters by means of SRP-03 central roller shutter controller. SRP-03 is operated in a wireless way by means of 8-channel remote control P-256/8. Roller shutters switches can not be equipped with backlight.





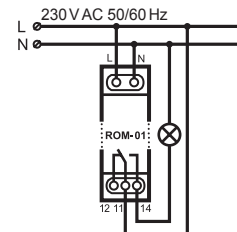
ROM-01, ROM-10 radio receivers can be mounted inside a typical distribution board on TH-35 rail and can realize radio control functions by means of any EXTA FREE transmitter. It is possible to connect any electrical devices realising functions set by the radio system components (e.g. EXTA building automation wired devices, relay and contactor systems, etc.) to the relay outputs of the receivers.

### 1-channel radio modular receiver ROM-01



#### Features

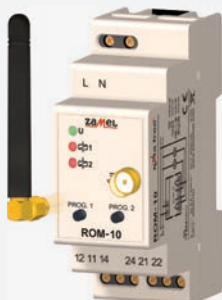
- cooperation with EXTA FREE wireless control system transmitters
- radio receiver, 1-channel, designed for mounting inside a distribution board on TH-35 rail,
- 5 operating modes: switching on, switching off, monostable, bi-stable and time mode (delayed switch off),
- 8 A relay output (changeover contact),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 300 m),
- power supply and relay operation optical signaling,
- a possibility of integration with wired control systems (e.g. EXTA building automation devices, bistable relays and other equipment mounted inside a distribution board),
- a possibility of connecting an external antenna ANT-01 mounted outside a distribution board.



#### Load capacity

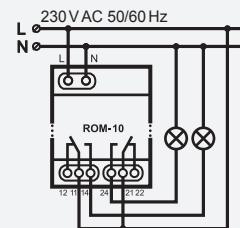
- 1000 W AC5b
- LED 60 W
- 250 W AC5a
- 500 W AC5a
- 375 W AC5a

### 2-channel radio modular receiver ROM-10



#### Features

- cooperation with EXTA FREE wireless control system transmitters,
- radio receiver, 2-channel, designed for mounting inside a distribution board on TH-35 rail,
- 5 operating modes: switching on, switching off, monostable, bi-stable and time mode (delayed switch off),
- 2 x 8 A relay outputs (changeover contacts),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 300 m),
- power supply and relay operation optical signaling,
- a possibility of integration with wired control systems (e.g. EXTA building automation devices, bistable relays and other equipment mounted inside a distribution board),
- a possibility of connecting an external antenna ANT-01 mounted outside a distribution board.



#### Load capacity

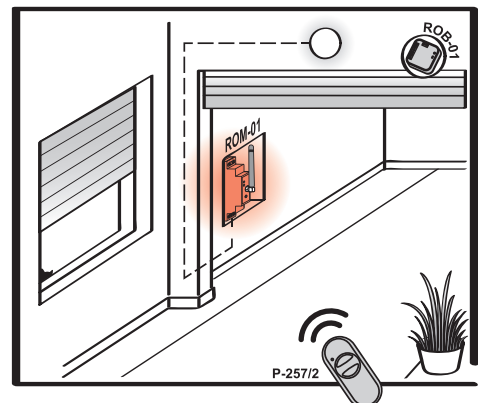
- 1000 W AC5b
- LED 60 W
- 250 W AC5a
- 500 W AC5a
- 375 W AC5a

## Technical data

Symbol:	ROM-01	ROM-10
Nominal supply voltage:	230 V AC	
Nominal frequency:	50 / 60 Hz	
Nominal power consumption:	0,45 W	0,55 W
Optical signalling of supply voltage:	green LED diode	
Number of channels:	1	2
Maximum number of transmitters:	32	
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	transmission with addressing	
Operating range:	up to 300 m in an open area	
Optical signalling of relay status:	red LED diode	2 x red LED diode
Relay contact parameters:	1 NO / NC 8 A / 250 V AC1 2000 VA	2 NO / NC 8 A / 250 V AC1 2000 VA
Temperature operating range:	-10 ÷ +55°C	
Cross-section of the connecting cables:	up to 2,5 mm <sup>2</sup>	
Casing mounting:	TH-35 rail (according to PN-EN 60715)	
Casing protection degree:	IP20	
Dimensions:	90 x 17,5 x 66 mm	90 x 35 x 66 mm
Weight:	0,083 kg	0,087 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2	

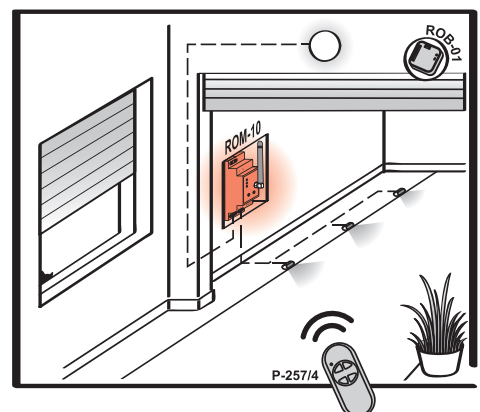
### ROM-01 – APPLICATION

ROM-01 module radio receiver operates as a receiver of P-257/2 2-channel remote control (lighting control in front of a garage gate). P-257/2 remote control may also realise a garage gate operation control by means of ROB-01/12-24V gate radio receiver.



### ROM-10 – APPLICATION

ROM-10 module radio receiver operates as a receiver of P-257/4 4-channel remote control (lighting control in front of a garage gate and inside a garage). Additionally, P-257/4 remote control may realise the gate radio receiver control ROB-01/12-24V.



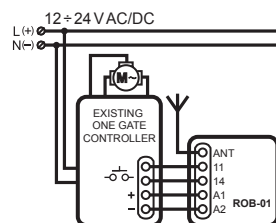
ROB-01/12-24V gate radio receiver is a general purpose (any gate manufacturer) garage gate or similar drives operation controller that allows to control the gate by means of EXTA FREE system transmitters. An additional advantage is common control – by means of a single remote control – of a driveway gate, garage gate, room lighting, etc.

### Radio gate controller ROB-01/12-24 V



#### Features

- cooperation with EXTA FREE wireless control system transmitters,
- control of driveway and garage gates and other similar drives,
- a possibility of using a single remote control for several various drives (driveways, garages) with mounted ROB-01/12-24V device,
- easy mounting inside Ø60 mm junction box,
- versatile low-voltage supply (12 ÷ 24 V AC / DC),
- connection possibility of external wire antenna,
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 250 m),
- optical signalling of operation.

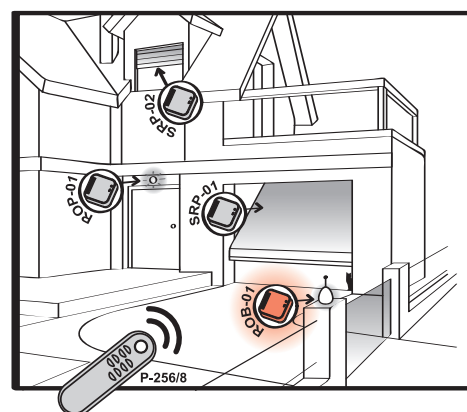


## Technical data

Symbol:	ROB-01/12-24V
Nominal supply voltage:	12 ÷ 24 V AC / DC
Nominal power consumption:	0,20 W
Number of channels:	1
Maximum number of transmitters:	32
Transmission:	radio 868,32 MHz
Transmission way:	one-way
Coding:	transmission with addressing
Operating range:	up to 250 m in an open area
Optical signalling of operation:	red LED diode
Relay contact parameters:	1NO 2 A / 250 V AC 3 500 VA
Temperature operating range:	-10 ÷ +55°C
Cross-section of the connecting cables:	up to 2,5 mm <sup>2</sup>
Casing protection degree:	IP20
Dimensions:	47,5 x 47,5 x 20 mm
Weight:	0,043 kg
Reference standard:	EN 60669, EN 60950, EN 61000

### ROB-01/12-24V – APPLICATION


ROB-01/12-24V radio gate receiver operates as a receiver of P-256/8 eight-channel remote control (controls the operation of a garage gate of any type). Additionally, P-256/8 remote control can operate the SRP-02 roller shutter controller and ROP-01 1-channel radio receiver.



RWG-01 remote control socket allows for an easy connection of any 230 V AC receiver and its wireless control by means of any EXTA FREE system transmitters. Neither tools nor the existing electrical system modifications are required in order to mount this device, which is directly mounted in a 230 V AC socket outlet.

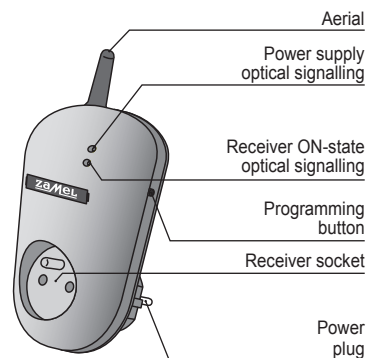
### Remote control socket RWG-01







 Plug and socket  
Schuko standard  
on special request.

#### Features

- cooperation with EXTA FREE wireless control system transmitters (it is necessary to buy the transmitters separately),
- lighting, heating control,
- easy mounting directly in 230 V AC plug-in socket,
- 5 operating modes: switching on, switching off, monostable, bistable and time mode (delayed switch off),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 300 m)
- optical signalling of radio transmission and relay status
- low power consumption, a possibility of continuous operation.




#### Load capacity

-  2000 W AC5b
- LED** 100 W
-  500 W AC5a
-  1000 W AC5a
-  750 W AC5a

### Remote control socket with a remote control RWG-01K







 Plug and socket  
Schuko standard  
on special request.

#### Features

- cooperation with EXTA FREE wireless control system transmitters (it is necessary to buy the transmitters separately),
- P-257/2 remote control included,
- lighting, heating control,
- easy mounting directly in a 230 V AC plug-in socket,
- 5 operating modes: switching on, switching off, monostable, bistable and time mode (delayed switch off),
- control by means of mobile devices (in cooperation with EFC-01),
- wide operating range (up to 300 m),
- low power consumption, a possibility of continuous operation.

#### Load capacity

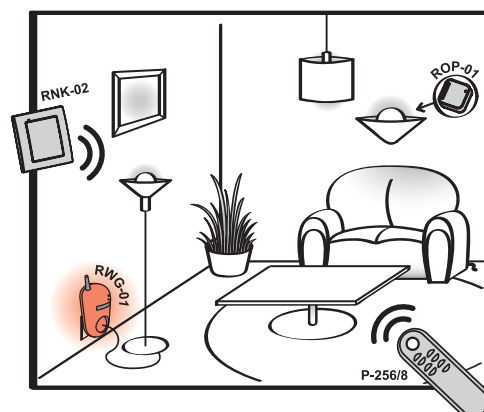
-  2000 W AC5b
- LED** 100 W
-  500 W AC5a
-  1000 W AC5a
-  750 W AC5a

## Technical data

Symbol:	RWG-01 / RWG-01K
Nominal supply voltage:	230 V AC
Nominal frequency:	50 / 60 Hz
Nominal power consumption:	0,29 W
Number of channels:	1
Maximum number of transmitters:	32
Transmission:	radio 868,32 MHz
Transmission way:	one-way
Coding:	transmission with addressing
Operating range:	up to 300 m in an open area
Optical signalling of supply voltage:	green LED diode
Optical signalling of relay status:	red LED diode
Maximum capacity:	4000 VA
Temperature operating range:	-10 ÷ +55°C
Casing protection degree:	IP20
Dimensions:	160 x 66 x 90 mm
Weight:	0,160 kg
Reference standard:	EN 60669, EN 60950, EN 61000

### RWG-01 – APPLICATION

RWG-01 remote control socket operates as a receiver of P-256/8 8-channel remote control and RNK-02 2-channel button radio transmitter (lighting source control switching on / switching off). The presented transmitters can also control ROP-01 radio receiver.



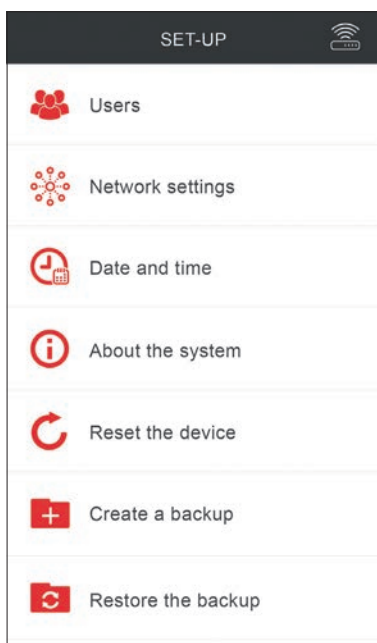
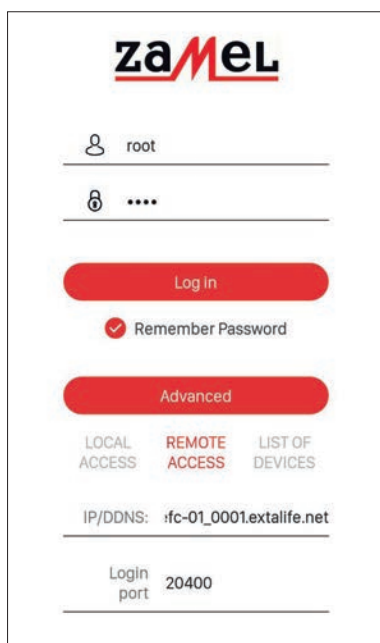
EFC-01 controller cooperates with selected EXTA FREE system receivers. The central unit fully connects receivers, sensors and transformers of the EXTA LIFE system, granting them functionality of an intelligent system. The aim of the controller is also cooperation with mobile devices operating based on Android and iOS system. This requires installation of a free EXTA LIFE application, which enables configuration of the whole system and its later use. The role of the controller EFC-01 in the EXTA LIFE system is management of all its elements, which have been paired with it. It is also an excellent tool for the system installer – it allows remote adding of transmitters to receivers and their parametrization. Implementation of time and logical functions increases possibilities of EXTA LIFE by automation of certain processes. Bi-directional communication between the controller and the receivers ensures that at all times the current status of a receiver is displayed in the application. This applies both to control within home network and beyond (through the Internet). The controller is small in size and is characterized by its modern design.

### Controller EFC-01



#### Features

- cooperation with selected EXTA FREE system receivers,
- cooperation with elements of the EXTA LIFE system (transmitters, receivers, sensors),
- management off the system from the level of mobile devices (tablets, smartphones),
- performance of scenes, time and logical functions,
- radio transmission in bandwidth ISM 868 MHz with coding,
- possibility of local control within home and remote (through the Internet),
- one way transmission with the EXTA FREE system receivers,
- bi-directional transmission with the EXTA LIFE system receivers,
- supports Android and iOS devices,
- wide operating range (up to 350 m in open area),
- small dimensions and modern design.



Log in and configuration menu in the ExtaLife application

## Technical data

<b>Symbol:</b>	EFC-01
<b>Nominal input voltage:</b>	5 V DC / 1,2 A – Standard Micro-USB
<b>Nominal power consumption:</b>	1,6 W
<b>Communication with elements of the EXTA LIFE system:</b>	radio – bandwidth ISM 868 MHz
<b>Transmission mode:</b>	bi-directional - 9600 bps
<b>Coding:</b>	128-bit key based algorithm
<b>Operating range:</b>	up to 330 m in open area
<b>Possibility to connect external antenna:</b>	no
<b>Transmission with mobile devices:</b>	TCP protocol based – connection performed through external Wi-Fi router
<b>Connectors:</b>	<ul style="list-style-type: none"> <li>• 1 x RJ45 Ethernet Port</li> <li>• 1 x micro USB B 2.0</li> <li>• 2 x USB A 2.0</li> <li>• RESET button</li> </ul>
<b>Maximum number of supported devices*:</b>	100
<b>Possibility of software update:</b>	yes
<b>Sygnalling:</b>	LED diodes
<b>Operating temperature range:</b>	-10 ÷ +55°C
<b>Ingress protection rating of the casing:</b>	IP20
<b>Protection class:</b>	III
<b>Dimensions:</b>	70 x 70 x 70 mm
<b>Weight:</b>	0,098 kg
<b>Compliance with standards:</b>	ETSI EN 300 220-1, ETSI EN 300 220-2

\* Concerns all devices paired with the controller (transmitters / receivers / sensors).



GSM remote control switches allow to control electrical devices (switching on / switching off, restart) by means of a mobile phone or PC / mobile device. Such devices make it possible to control receivers without limitations due to the local radio system operating range – a remote access to switch them on or off is possible almost from any location within GSM network operating range or in areas with LAN/ Internet access. In case of GRG-01, device installation does not require tools or modifications in the existing electrical system – the devices are mounted directly in 230 V AC socket outlets. GRM-10 device can be mounted in a distribution board on TH-35 rail and it can be directly connected with EXTA/EXTA FREE building automation wireless or wired components.

**GSM remote switch GRG-01**



**Features**

- remote control of electrical devices by means of commands (phone incoming connection, SMS message) from a mobile phone,
- comfortable control of hard to reach devices (ventilation, heating, etc.),
- three operating modes (switching on, switching off, restart – relay contacts changeover for a defined period),
- easy mounting directly in a standard 230 V AC plug-in socket,
- low power consumption, a possibility of continuous operation.

**Load capacity**

- 2000 W AC5b
- LED 100 W
- 500 W AC5a
- 1000 W AC5a
- 750 W AC5a



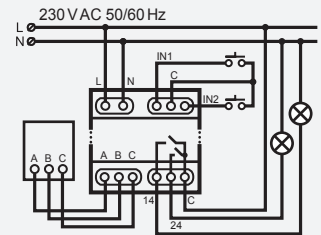
Plug and socket Schuko standard on special request.

**GSM remote switch GRM-10**



**Features**

- remote control of electrical devices by means of commands (phone incoming connection, SMS message) send from a mobile phone,
- 2 independent relay outputs,
- 2 digital inputs including status control by the device,
- configuration of SMS messages received after digital inputs' status change,
- free configuration software for PC,
- special gate mode to control the entry gate drives,
- comfortable control of hard to reach devices (ventilation, heating, etc.),
- three operating modes (switching on, switching off, restart – relay contacts changeover for a specified period),
- mounted inside a distribution board on TH-35 rail,
- low power consumption, a possibility of continuous operation,
- RS-485 protocol, cooperation with RXM-01.



**Load capacity**

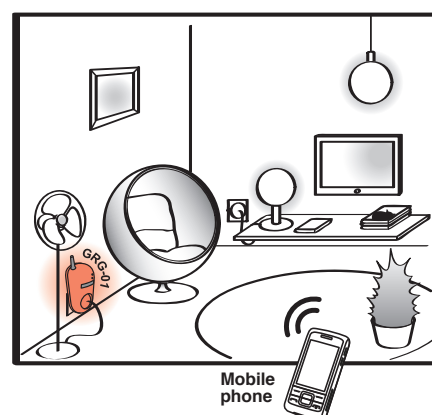
- 2000 W AC5b
- LED 100 W
- 500 W AC5a
- 1000 W AC5a
- 750 W AC5a

## Technical data

Symbol:	GRG-01	GRM-10
Nominal supply voltage:	230 V AC	
Nominal frequency:	50 / 60 Hz	
Nominal power consumption:	<ul style="list-style-type: none"> <li>• 0,5 W – stand-by</li> <li>• 2,5 W – GSM operation</li> </ul>	2,6 W
GSM frequency:	900 / 1800 / 1900 MHz	
Operating range:	limited with GSM network structure	
Applied communication protocols:	-	RS485
Coding:	-	
LAN socket:	-	
Optical signalling of supply voltage:	green LED diode	
Optical signalling of relay status:	two-colour (red colour) LED diode	2 x red LED diode
Optical signalling of GSM connection status:	two-colour (green colour) LED diode	yellow LED diode
Relay contact parameters:	1 NO 16 A / 250 V AC1 4000 VA	2 NO 16 A / 250 V AC1 4000 VA
Temperature operating range:	-10 ÷ +55°C	
Casing protection degree:	IP20	
Dimensions:	160 x 66 x 90 mm	90 x 53 x 66 mm
Weight:	0,190 kg	0,200 kg
Reference standard:	EN 60950-1, EN 55024, EN 610004-4	

### GRG-01 – APPLICATION

GSM remote switch GRG-01 allows for a remote control (switching on / switching off or restart) of a fan – by means of commands send from a mobile phone.



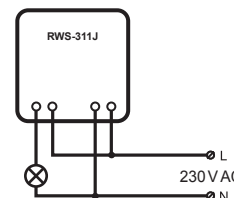
Radio power switches RWS-311J, RWS-311D and RWS-311C are receivers of EXTA FREE system dedicated to operate with increased loads. The above is due to the application of output relays of a maximum load 16 A / 250 V AC. It is possible to independently control one (RWS-311J), two (RWS-311D) or four (RWS-311C) circuits regarding the type of switch that is used. They are ideal for device group control such as: lighting, heaters, fans, air conditioners, pumps, gates. Hermetical casing with IP56 protection degree allow the receivers to be mounted outdoor. Resistance to changing weather conditions ensures their correct operation throughout their lifetime. 230 V AC power supply, easy mounting and a wide range of operation are additional advantages of the presented switches.

### 1-channel radio power switch RWS-311J



#### Features

- cooperation with EXTA FREE system transmitters,
- designed for indoor and outdoor mounting,
- designed for operation in difficult weather conditions,
- unidirectional radio transmission 868,32 MHz in accordance with EXTA FREE system protocol,
- independent control of maximum 1 circuit,
- wide operating range up to 350 m in an open area,
- a possibility of increasing the range by means of RTN-01 retransmitter.



#### Load capacity

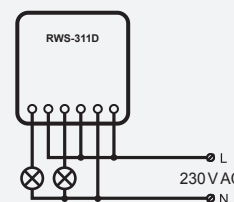
- 2000 W AC5b
- LED 100 W
- 500 W AC5a
- 1000 W AC5a
- 750 W AC5a

### 2-channel radio power switch RWS-311D



#### Features

- cooperation with EXTA FREE system transmitters,
- designed for indoor and outdoor mounting,
- designed for operation in difficult weather conditions,
- unidirectional radio transmission 868,32 MHz in accordance with EXTA FREE system protocol,
- independent control of maximum 2 circuits by means of one remote control,
- wide operating range up to 350 m in an open area,
- a possibility of increasing the range by means of RTN-01 retransmitter.



#### Load capacity

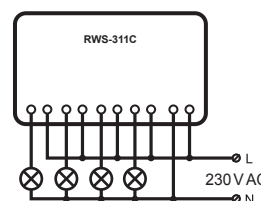
- 2000 W AC5b
- LED 100 W
- 500 W AC5a
- 1000 W AC5a
- 750 W AC5a

### 4-channel radio power switch RWS-311C



#### Features

- cooperation with EXTA FREE system transmitters,
- designed for indoor and outdoor mounting,
- designed for operation in difficult weather conditions,
- unidirectional radio transmission 868,32 MHz in accordance with EXTA FREE system protocol,
- independent control of maximum 4 circuits by means of one remote control,
- wide operating range up to 350 m in an open area,
- a possibility of increasing the range by means of RTN-01 retransmitter.



#### Load capacity

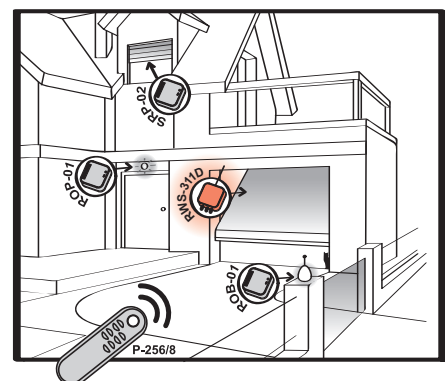
- 2000 W AC5b
- LED 100 W
- 500 W AC5a
- 1000 W AC5a
- 750 W AC5a

## Technical data

Symbol:	RWS-311J	RWS-311D	RWS-311C
Nominal supply voltage:	230 V AC		
Supply voltage tolerance:	-15% ÷ +10%		
Nominal power consumption:	• 1,1 W stand-by • 1,5 W operation	• 1,15 W – stand-by • 2,4 W – operation	• 1,3 W stand-by • 4,4 W operation
Number of channels:	1	2	4
Maximum number of transmitters:	32		
Transmission:	radio 868,32 MHz		
Transmission way:	one-way		
Coding:	transmission with addressing		
Operating range:	up to 350 m in an open area		
Possibility of range increase:	yes – retransmitter RTN-01		
Relay contact parameters:	1 x 16 A / 250 V AC 4000 VA AC1	2 x 16 A / 250 V AC 4000 VA AC1	4 x 16 A / 250 V AC 4000 VA AC1
Contacts type:	1 x NO dry contact	2 x NO dry contact	4 x NO dry contact
Operation mode:	bistable, time		
Time adjustment for time mode:	1 ÷ 120 s – independently for each channel		
Mounting:	surface		
Casing protection degree:	IP56		
Temperature operating range:	-20 ÷ +50°C		
Dimensions:	127 x 120 x 60 mm		157 x 82 x 55 mm
Weight:	0,39 kg	0,41 kg	0,58 kg
Reference standard:	EN 60669, EN 60950, EN 61000		

### RWS-311D – APPLICATION

Radio power switch RWS-311D cooperates with garage gate control system. Opening and closing the gate is carried out by means of P-256/8 remote control. It is also used to control the entry gate drive, lighting and roller shutter drive.



Wireless temperature and luminous flux intensity sensor RCL-02 and radio wireless motion detector RCR-01 is an ideal completion of EXTA FREE system increasing its functionality. These sensors can cooperate directly with system receivers. Due to this cooperation the users gain the ability to automate control processes within their home, garden, work and leisure place. Proper temperature and sunshine analysis by RCL-02 is an irreplaceable help and, above all, time saving in the control process of roller shutters and maintaining thermal comfort at home. The sensor is battery powered. The RCL-02 sensor can be mounted outdoor. The motion radio detector RCR-01 is a device that makes it possible to create modern, energy-saving lighting control system in an easy way. The lighting is switched on for a specified time in case any movement occurs within the operating zone. An additional advantage of RCR-01 device is its complete mobility and lack of wiring related to power supply.

### Radio temperature and luminous flux intensity sensor RCL-02



#### Features

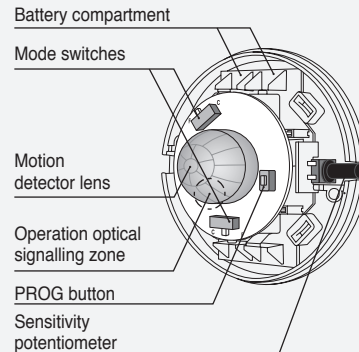
- designed to cooperate only with EXTA FREE system receivers,
- equipped with 4-push button keyboard to enter the adjustment values,
- a possibility to view current temperature and luminous flux intensity values in the LCD display,
- a possibility to adjust the setpoint and hysteresis independently to measure temperature and luminous flux intensity,
- temperature value measurement from -20 to +60 °C,
- temperature measurement accuracy is not less than ± 1 °C,
- luminous flux intensity measurement from 0 to 16500 lx,
- battery powered (2 x AAA),
- hermetic casing – casing protection degree IP54.

### Radio wireless motion detector RCR-01



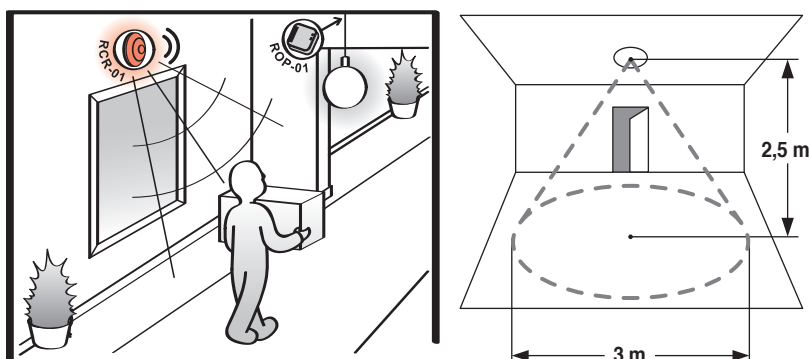
#### Features

- PIR motion passive detector,
- built-in twilight switch (a possibility of switching off the sensor's operation),
- EXTA FREE system receivers remote control,
- easy mounting, easy adaptation to the operating condition changes,
- battery operated,
- cooperation with EFC-02 controller.



#### RCR-01 – APPLICATION

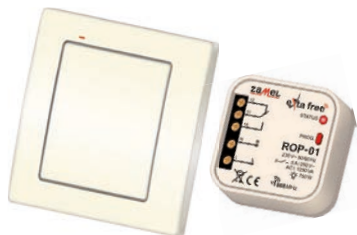
Radio motion sensor RCR-01 controls the operation of ROP-01 radio receiver. The application of RCR-01 gives a possibility of automatic lighting control – also in rooms where wired control installation is not done.



## Technical data

Symbol:	RCL-02	RCR-01
Nominal supply voltage:	3 V DC	2 x 1,5 V DC – battery AAA
Battery type:	2 x 1,5V battery AAA	-
Transmission:	radio 868,32 MHz	
Transmission way:	one-way	
Coding:	-	transmission with addressing
Operating range:	up to 200 m in an open area	up to 250 m in an open area
Optical signalling of radio transmission:	-	red LED diode
Cooperation with system elements:	directly with EXTA FREE system receivers	
Functionality:	sending switch on / switch off commands to receivers depending on the setpoint and hysteresis separately for temperature and luminous flux intensity	-
Control (interface):	LED display + 4 button keypad	-
Temperature measuring range:	-20 ÷ +60°C	-
Temperature resolution:	0,1°C	-
Temperature measuring accuracy:	• ± 0,5°C in the range of 0 ÷ 80°C • ± 1°C n a different range	-
Luminous flux intensity measuring range:	0 ÷ 16 500 lx	-
Luminous flux intensity resolution:	1 lx	-
Number of channels:		1
Twilight sensor adjustment range:	-	2 ÷ 20 lx
Luminous flux intensity measuring accuracy:	range 2 ÷ 30 lx: ± 2 lx, range 30 ÷ 40 lx: ± 3 lx, range 40 ÷ 50 lx: ± 5 lx range > 50 lx: percentage acc. to user's adjustment	-
Casing protection degree:	IP54	IP20
Mounting:	surface (2 x strecher 6x 3,5 x 35)	-
Temperature operating range:	-20 ÷ +50°C	-10 ÷ +55°C
Dimensions:	84 x 68 x 43 mm	Ø75 x 40 mm
Weight:	0,09 kg	0,07 kg
Reference standard:	EN 60669, EN 60950, EN 61000	ETSI EN 300 220-1, ETSI EN 300 220-2

### Wireless control set – lighting RZB-01



**Features**

- a complete set of wireless control (RNK-02 2-channel button radio transmitter and ROP-01 1-channel radio bistable receiver),
- operation control of lighting or other receivers.

**Technical data**

RNK-02  
information on page 8  
ROP-01  
information on page 20

### Wireless control set – lighting with dimming function RZB-02



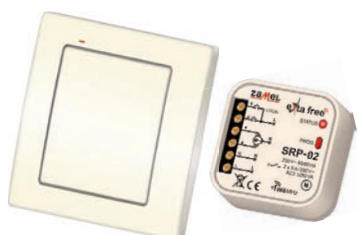
**Features**

- a complete set of wireless control (RNK-02 2-channel button radio transmitter and RDP-01 1-channel radio dimmer),
- operation control of lighting – switching on / switching off, brightening / dimming.

**Technical data**

RNK-02  
information on page 8  
RDP-01  
information on page 22

### Wireless control set – roller shutter control RZB-03



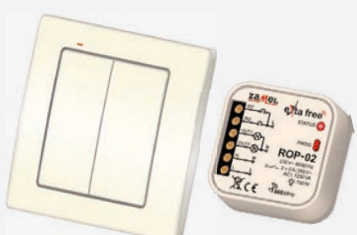
**Features**

- a complete set of wireless control (RNK-02 2-channel button radio transmitter and SRP-02 roller shutter controller),
- operation control of roller shutter drives.

**Technical data**

RNK-02  
information on page 8  
SRP-02  
information on page 24

### Wireless control set – lighting, 2-channel RZB-04



**Features**

- a complete set of wireless control (RNK-04 4-channel button radio transmitter and ROP-02 2-channel radio receiver),
- operation control of lighting, heating or other receivers.

**Technical data**

RNK-04  
information on page 8  
ROP-02  
information on page 20

### Wireless control set – universal RZB-05



**Features**

- a complete set of wireless control (P-257/2 2-channel remote control and ROP-01 1-channel radio bistable receiver),
- operation control of lighting, ventilation, heating or other receivers.

**Technical data**

P-257/2  
information on page 10  
ROP-01  
information on page 20

## 1-channel radio power switch set RWS-311J/Z



### Features

- a complete set of wireless control (P-257/2 2-channel remote control and RWS-311J 1-channel radio power switch),
- control operation of lighting, ventilation, heating, watering or other receivers.
- independent control of maximum 1 channel (circuit).

### Technical data

P-257/2  
information on page 10  
RWS-311J  
information on page 36

## 2-channel radio power switch set RWS-311D/Z



### Features

- a complete set of wireless control (P-257/2 2-channel remote control and RWS-311D 2-channel radio power switch),
- control operation of lighting, ventilation, heating, watering or other receivers.
- independent control of maximum 2 channels (circuits).

### Technical data

P-257/2  
information on page 10  
RWS-311D  
information on page 36

## 4-channel radio power switch set RWS-311C/Z



### Features

- a complete set of wireless control (P-257/4 4-channel remote control and RWS-311C 4-channel radio power switch),
- control operation of lighting, ventilation, heating, watering or other receivers.
- independent control of maximum 4 channels (circuits).

### Technical data

P-257/4  
information on page 10  
RWS-311C  
information on page 36



RTN-01 retransmitter increases the operating range of the EXTA FREE radio transmitters. Up to four retransmitters may operate in a single system, so it is possible to increase the distance between the transmitter and the receiver up to 1000 m. The device is equipped with 230 V AC passthrough socket for connecting any receiver – in this way the retransmitter does not block the power outlet. ANT-01 external antenna increases the operating range of the system module transmitters and receivers and allows for a correct operation of these devices when mounted in distribution boards with metal door – in this case the antenna may be placed outside the board.

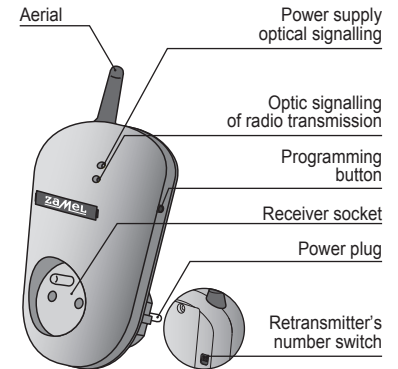
### Retransmitter RTN-01



Plug and socket  
Schuko standard  
on special request.

#### Features

- increasing the operating range of the EXTA FREE radio devices,
- a possibility of cooperation with three other RTN-01 retransmitters,
- easy mounting in a 230 V AC socket outlet,
- low power consumption, a possibility of continuous operation,
- wide operating range (up to 250 m),
- optical signalling of power supply and radio transmission.

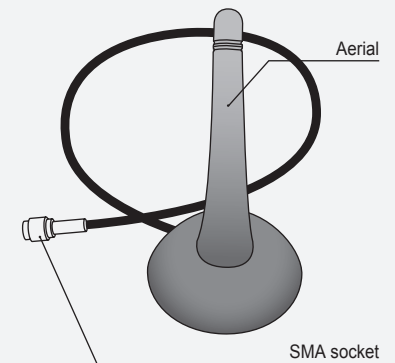


### External antenna ANT-01



#### Features

- additional antenna for leading radio signal outside a distribution board – connection to RNM-10, ROM-01, ROM-10, RXM-01 devices,
- EXTA FREE wireless system transmitters and receivers operating range increase,
- simple mounting by means of SMA connector,
- 3 m long connection cable.



## Technical data

Symbol:	RTN-01	ANT-01
Nominal supply voltage:	230 V AC	-
Nominal frequency:	50 / 60 Hz	-
Nominal power consumption:	0,45 W	-
Transmission:	radio 868,32 MHz	-
Transmission way:	one-way	-
Coding:	transmission with addressing	-
Operating range:	up to 300 m in an open area	-
Optical signalling of supply voltage:	green LED diode	-
Optical signalling of radio transmission:	red LED diode	-
Connecting socket:	-	SMA simple, masculine
Cable length:	-	3 m
Temperature operating range:	-10 ÷ +55°C	
Casing mounting:	230 V AC socket	magnet or double-sided tape
Casing protection degree:	IP20	
Dimensions:	160 x 66 x 90 mm	Ø 30,8 x 71,8 mm
Weight:	0,160 kg	0,043 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2, EN 60950, EN 61000	ETSI EN 300 220-1, ETSI EN 300 220-2