RETRANSMITTER RTN-01

exta free

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zaMeL

DESCRIPTION

RTN-01 retransmitter is used to increase radio transmitter signal range of wireless EXTA FREE control system. Up to four retransmitters can operate in a system - it gives the possibility to increase the distance between a transmitter and a receiver to 1000 m. The device is equipped with a 230V AC pass-through socket - every receiver can be connected to it. The retransmitter does not block the socket.

FEATURES

- wider operation range of EXTA FREE radio devices,
- possibility to cooperate with three other RTN-01 retransmitters,
- easy mounting in 230V AC socket,
- low current consumption, possibility of constant work,
- wide range of operation (up to 250 m),
- power supply and radio transmission are optically signalled.

⚠ CAUTION!

The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions.
In case of casing dismantling an electric shock may occur, and the guarantee is lost then. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.
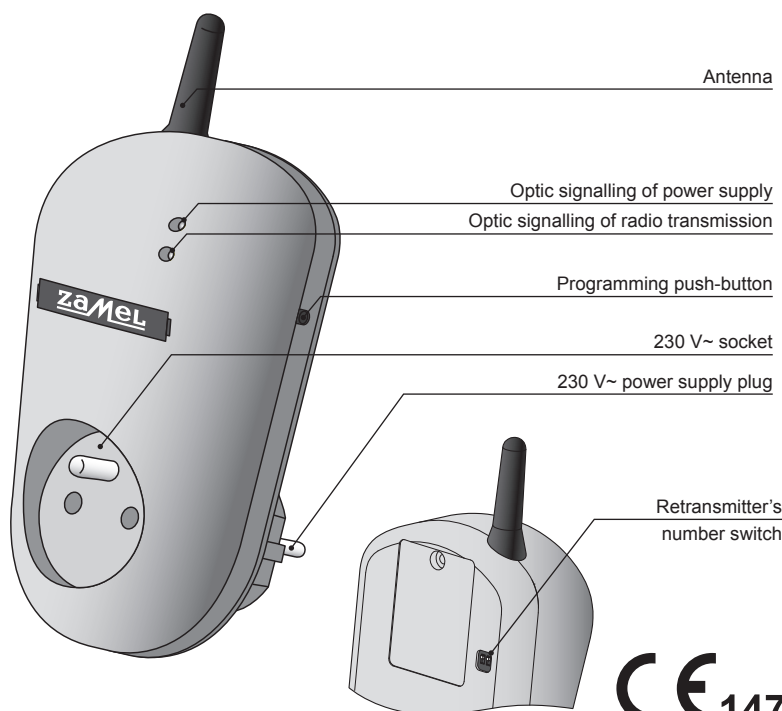
The symbol means selective collecting of electrical and electronic equipment.
It is forbidden to put the used equipment together with other waste.

TECHNICAL DATA

RTN-01

Input rated voltage:	230 V~
Input voltage tolerance:	-15 ÷ +10 %
Nominal frequency:	50 / 60 Hz
Nominal power consumption:	0,45 W
Optic signalling of supply voltage:	LED green diode
Maximum load current of socket output:	16 A
Transmission:	radio 868,32 MHz
Coding way:	unidirectional
Coding:	addressing transmission
Maximum number of transmitters:	32
Range:	up to 250 m in the open area
Optic signalling of transmitter's operation:	LED red diode
Ambient temperature range:	-10 ÷ +55 ºC
Operating position:	free
Casing mounting:	230 V~ socket
Casing protection degree:	IP20 (EN 60529)
Protection level:	II
Kategoria przepięciowa:	II
Pollution degree:	2
Surge voltage:	1 kV (EN 61000-4-5)
Dimensions:	160 x 66 x 90 mm
Weight:	0,180 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-1, EN 60950, EN 61000

APPEARANCE

Antenna

Optic signalling of power supply
Optic signalling of radio transmission

Programming push-button

230 V~ socket

230 V~ power supply plug

Retransmitter's number switch

CE 1471

OPERATION

Before retransmitter's operation start it is important to set switches, which are in the back part of a device, according to a suitable combination. If only one retransmitter is used its switches should be set in combination"a' presented in Fig. 1.
CAUTION! Only 4 retransmitters can operate in the transmitters operation range.
In a situation where few retransmitters are used (maximum 4), the switch of the following retransmitter should be set in a combination different from the combination of the other retransmitters. Suggested setting sequence for the following retransmitters according to Fig. 1.
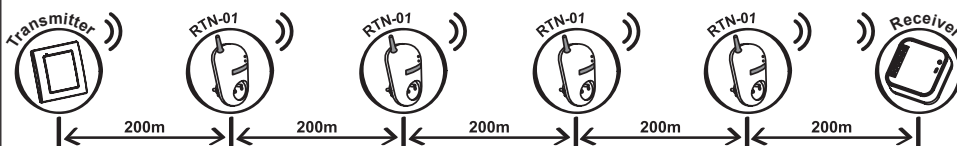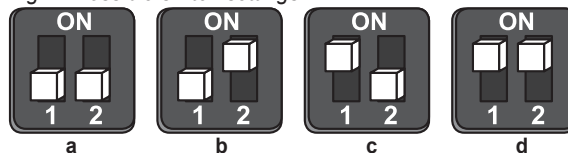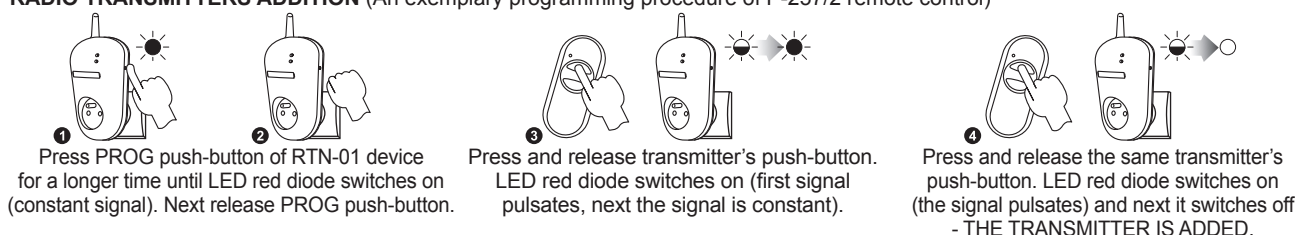
Fig. 1. Possible switch settings.

a   b   c   d

The ZAMEL company devices which are characterised with this sign can cooperate with each other.

Fig. 2. Operation with maximum number of retransmitters.

PROGRAMMING

RADIO TRANSMITTERS ADDITION (An exemplary programming procedure of P-257/2 remote control)

❶❷ Press PROG push-button of RTN-01 device for a longer time until LED red diode switches on (constant signal). Next release PROG push-button.

❸ Press and release transmitter's push-button. LED red diode switches on (first signal pulsates, next the signal is constant).

❹ Press and release the same transmitter's push-button. LED red diode switches on (the signal pulsates) and next it switches off - THE TRANSMITTER IS ADDED.

CAUTION! By adding next retransmitters to increase the range of one transmitter, it is required to add this transmitter to every retransmitter. One transmitter can be added to a retransmitter during one programming cycle.

RADIO TRANSMITTERS DELETION

❶ Press PROG push-button of RTN-01 device for a longer time.

❷ After 5 seconds LED red diode switches on (signal pulsates) and then it switches off.

❸ Release the push-button in RTN-01 - MEMORY IS DELETED.
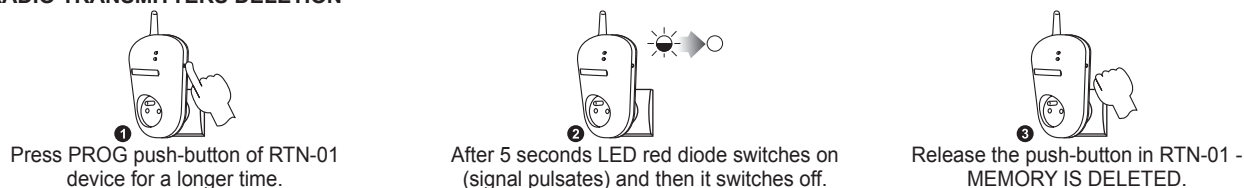
COOPERATION AND OPERATING

Symbol	ROP-01	ROP-02	ROB-01	SRP-02	SRP-03	RWG-01	RWL-01	ROM-01	ROM-10	RDP-01	RTN-01
RNK-02	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
RNK-04	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
P-256/8	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m
P-257/4 (2)	180 m	200 m	200 m	200 m	200 m	250 m	180 m	250 m	250 m	180 m	250 m
RNM-10	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m
RNP-01	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RNP-02	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RNL-01	160 m	180 m	180 m	lack*	lack*	200 m	160 m	200 m	200 m	160 m	200 m
RTN-01	200 m	200 m	200 m	200 m	200 m	250 m	200 m	250 m	250 m	200 m	250 m
RCR-01	160 m	180 m	180 m	lack*	lack*	200 m	160 m	200 m	200 m	160 m	200 m
RTI-01	160 m	180 m	180 m	180 m	180 m	200 m	160 m	200 m	200 m	160 m	200 m
RXM-01	230 m	250 m	250 m	250 m	250 m	300 m	200 m	300 m	300 m	230 m	300 m

* - 1-channel transmitters do not cooperate with roller blind controllers.

CAUTION: The given range concerns open area - an ideal condition without any natural or artificial obstacles. If there are some obstacles between a transmitter and a receiver, it is advisable to decrease the range according to:
wood and plaster: from 5 to 20 %, bricks: from 10 to 40 %, reinforced concrete: from 40 to 80 %, metal: from 90 to 100%, glass: from 10 to 20 %. Over- and underground medium and high electrical power lines, radio and television transmitters, GSM transmitters set close to a device system have also a negative influence on the range.

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