

## RR2-M

EN

INSTRUCTION MANUAL

### RADIO RECEIVER – 2 CHANNELS

Electrical feeding 230V~ 433,92MHz



## USER INSTRUCTIONS

**CAUTION.** Carefully observe all the following installation instructions to ensure personal safety.

The device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lacking experience and knowledge. Do not allow children to play with the fixed controls and keep any remote-control units out of their reach.

Have installation checks performed periodically by qualified personnel from a service centre authorised by the manufacturer. Do not use if repair or adjustment is required.

**CAUTION.** Disconnect the power supply during cleaning or maintenance operations. Do not use solvents or jets of water to wash the appliance; the appliance should not be submerged in water.

In the event of fault or malfunction, switch off the device at the main switch. All repairs and adjustments must only be performed by qualified personnel from a service centre authorised by the manufacturer.

Always request exclusive use of original spare parts. Failure to respect this condition could compromise safety and invalidate the benefits contained in the warranty for the appliance. In the event of any problems or queries, consult your agent or contact the manufacturer directly.

Carefully preserve these instructions after installation.



The product must be disposed of in compliance with local environmental regulations and not as household waste.

# INSTALLER INSTRUCTIONS

nekos products have been manufactured in accordance with safety standards and conforms to the stipulations of current standards in force.  
When correctly assembled, installed and used according to the present instructions, they will not generate any danger for persons, animals or items.

## Symbols used in the manual



### **DANGER**

*This indication draw the attention about potential dangers for safety and health of peoples and animals.*

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## SAFETY INDICATIONS

### • General notes



**ATTENTION:** Before installing this appliance, ensure all safety indications have been read carefully and understood in order to prevent contact with electricity, injury or any other incident. The manual should be conserved for further consultation at a later date.



The manufacturer accepts no responsibility for damage to people, animals or things incurred by improper use.



Use for any applications other than those indicated must be authorised by the manufacturer after technical review of the assembly.



Plastic bags, polystyrene, small metal parts such as nails, staples etc. should be placed out of the reach of children as they constitute a potential source of risk.



Do not use solvents or jets of water to wash the appliance. The appliance should not be submerged in water.

### • Notes for functioning and use

**RR2-M** is a recessed radio receiver module, with 2 control relays, powered directly by the 230V~ (AC) 50/60 Hz mains power system, set up to receive radio commands from the PIK series transmitter or commands with NEKOS protocol.



This product is designed to be used with the manufacturer's original products that is chain and rack actuators. Use with any other products may result in damage or malfunctions.



It is prohibited to open or drill holes in the plastic casing of the product, since there are live parts under the casing; do not cut or peel the antenna wire as it is powered by the mains power system.



The receiver has been developed to control single-phase electrical equipment powered by mains electricity such as lamps or electric motors with powers up to the specified maximum; any other use is prohibited.



After removing the packaging, check the integrity of the device.



This device is intended only and exclusively for the use for which it was designed, and the manufacturer cannot be held liable for damage due to improper use.



The product is powered at a hazardous voltage. All electrical connections must be made with the power cut off.



The product is intended exclusively to operate inside electrical junction boxes and thus its casing has no degree of protection against the infiltration of liquids.



It is absolutely prohibited to use the product in environments other than those for which it is intended.



The product must be disposed of in compliance with local environmental regulations and not as household waste.

### • Warnings for installation



Carefully follow the recommendations provided in this manual.  
There may be hazards for your health and safety during installation.

- The control devices (buttons or switches) and connection cables must have suitable insulation characteristics for electrical systems with an operating voltage not less than 300 Vac.
- The power lines must be protected by an appropriately sized magnetothermic and differential cut-off device (having overvoltage category III, i.e. the distance between the contacts must be at least 3.5 mm) which ensures omnipolar disconnection from the mains in case of a fault. If this device is not near the radio receiver module, a system must be assembled to block any unauthorized connections or an additional sectioning device must be added.
- The device does not include any protection against overloads or short circuits on the outputs, therefore a protection suited to the load(s) installed (fuse or magnetothermic switch) must be provided on the power line.
- It is prohibited to install the receiver in SELV system plant sections (e.g.: *circuits of doorbells, video intercoms, 12/24V spotlights, etc.*).

## CHARACTERISTICS

### • Maximum permissible values

Power supply voltage	250V~ (AC) / 240V= (DC)	
Capacity of the contacts	5 A / 1250VA @ 250V~(AC)	Cosφ = 1
	5 A / 150W @ 30V = (DC)	Resistive load
Maximum current with contact closed	5 A	
Storage temperature	(-40) - (+100) °C	
Operating temperature	(-20) - (+55) °C	

### • Electrical characteristics

Tests were carried out at the ambient temperature of + 25 °C.

Parameter	Min	Typ.	Maximum	Unit	Notes
Power supply voltage (Vac - 50/60Hz)	100		250	Volt ~	
Power supply voltage (Vdc)	100		240	Volt =	
Power absorbed (Standby - reception only)		0.3		Watt	
Power absorbed (1 relay active)		0.8		Watt	
Power absorbed (2 relays active)		1.4		Watt	
Operating frequency		433.9 2		MHz	
Range in free space		150		meters	Note 1
Range in internal environment		20		meters	Note 1
No. transmitters that can be memorized			30		
Switch-on time			2	s	Note 2
Control actuation time			0.5	s	Note 3
Max. capacity of the output contacts Vac			5A/1250~VA@ 250V 2A/500V@ 250V	Amp ~ Amp ~	Cosφ = 1 Cosφ = 0.4
Max. capacity of the output contacts Vdc			5A/150W @ 30VDC	Amp =	Resistive load
Degree of protection		IP20			
Overall dimensions	H (height) 36 mm, W (width) 42 mm, L (depth) 21 mm				

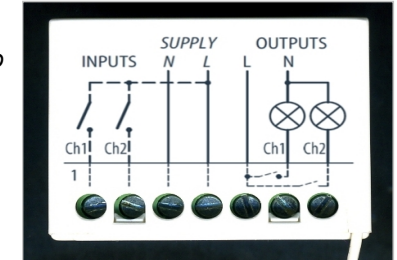
**Note 1:** The estimated range should be considered as indicative only, since the reception is subject to interference due to other devices operating at the same frequency depending on their proximity as well as the nature and arrangement of any obstacles located between the transmitter and receiver.

**Note 2:** Time interval between switch-on and the reception of a valid data sequence.

**Note 3:** Time interval between transmission of the command (pressing the remote control button) and actuation of the command (triggering the relay).

### • Connections to the terminal block

1. Local control input ch. 1 (active when connected to 4);
2. Local control input ch. 2 (active when connected to 4);
3. Power supply input (neutral or "-");
4. Power supply input (phase or "+");
5. Relay contacts common;
6. Channel 1 output N.O. contact;
7. Channel 2 output N.O. contact.



## TECHNICAL AND CONSTRUCTIONAL INFORMATION

**RR2-M** is a small receiving module used for remote control of actuators, rolling shutters and blinds, wireless control for switching on lights, smart management.

It has the following constructional characteristics:

- Highly compact two-channel receiver with 2 relays powered directly by the 230V 50/60Hz mains power system, equipped with a high-performance OOK / ASK superheterodyne receiver with outstanding reliability controlled by a microprocessor with decoding function, radio remote control self-learning and antistatic digital filter for improved radio performance.
- The firmware developed for this receiver is extremely flexible and user-friendly, enabling advanced functions such as changing the operating mode independently for each channel.
- This receiver is equipped with an integrated buzzer that allows programming without the need to physically access the board.
- It uses a SAW filter to improve selectivity and suppress out-of-band interference.
- With the use of appropriately sized relays, this receiver **can be used to directly control both lights and electric motors.**
- This module is equipped with a reliable and efficient power supply with low consumption (standby ≤0.3W) distinguished for its wide range of voltages. It is also protected against overvoltage on the mains input.
- Device compliant with the European standards I-ETS 300 220 and ETS 300 683.

## ID PLATE AND MARKING DATA

RR2-M receivers have CE marking and are destined for use in the European Union without further requirements.

The CE marking on the product, packaging and indications for use provided with the product indicate 'presumed conformity to the directives' issued by the European Community.

The manufacturer holds the technical archive with documentation providing that products have been examined and evaluated for conformity to directives.

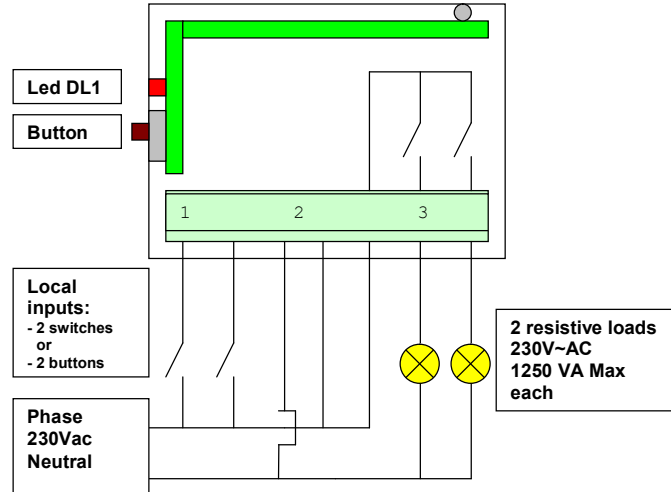
ID plate data are indicated on a polyethylene adhesive label applied on the product, printed in black on a grey background; see example aside.

## SCHEMATIC CONNECTION DIRECTIONS

**THESE INSTRUCTIONS ARE INTENDED FOR TECHNICAL AND SPECIALIZED PERSONNEL.  
THUS BASIC SAFETY AND WORKING TECHNIQUES ARE NOT DISCUSSED.**

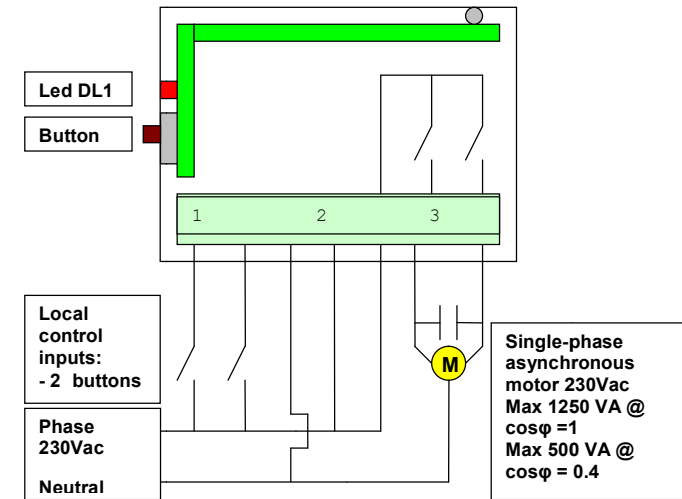
- **Diagram 1**

Directions for controlling 2 independent loads, such as 2 lamps



- **Diagram 2**

Directions for controlling a single-phase asynchronous motor.



Ensure that all connections are correct before powering the module; an incorrect connection may damage the equipment and create a safety hazard.

## 1. DESCRIPTION

The recessed receiver can be used to control remote or local devices (by means of a wall-mounted push-button panel or the standard recessed power and switching modules, for example) through the two relay output channels. The power supply comes directly from the electricity mains with alternating current at 110/230 Volt. Any ASK or OOK remote control operating at 433.92 MHz, with fixed code or "rolling code", can be used for the remote actuation.

### A. General characteristics

- Power supply: 110/230V~ /AC) 50/60 Hz
- Operating frequency: 433.92 MHz – NEKOS Protocol
- Modulation: ASK/OOK
- 2 relay outputs: maximum current **5 Ampere**. Examples:
  - $P_{max} (230V) = 1250 \text{ VA}$  for  $\cos\phi=1$ ,
  - $P_{max} (230V) = (1250 \times \cos\phi) \text{ VA}$  for  $\cos\phi < 1$
  - $P_{max} (115V) = 625 \text{ VA}$  for  $\cos\phi =1$ ,
  - $P_{max} (115V) = (625 \times \cos\phi) \text{ VA}$  for  $\cos\phi < 1$
- 2 local control inputs
- 4 control modes of the output:
  - monostable
  - bistable
  - timed
  - motor control (**factory default**)
- Learning/configuration button
- Indicator LED + buzzer during the learning/configuration phases
- Up to 30 remote controls can be memorized (the number depends on the type of coding used).

### B. I/O Terminal block

Description of the connections on the I/O terminal block:

- Terminal 1: input 1, for local control of output 1
- Terminal 2: input 2, for local control of output 2
- Terminal 3: input (neutral/negative) of the power supply
- Terminal 4: input (phase/positive) of the power supply
- Terminal 5: common of the relays
- Terminal 6: relay 1 normally open (N.O.) contact
- Terminal 7: relay 2 N.O. contact

## 2. OPERATION

### 2.1. Operation with remote input (radio remote control)

#### Device switch-on

When switched on, the device emits:

- one blink of the LED accompanied by a low tone for ½ second if there is at least one remote control memorized,
- two blinks of the LED accompanied by two low tones if there is no remote control memorized.

The receiver is able to receive remote controls with FIXED CODE and ROLLING CODE. Each radio button is memorized individually associating it, through the programming procedure, with the user's desired function (See table 1).

Table 1

"LIGHTS CONTROL" MODE TX OPERATION	
Function No.	Effective Function
1.1	Monostable
1.2	Bistable
1.3	Timed
"MOTOR CONTROL" MODE TX OPERATION	
Function No.	Effective Function
2.1	Step / Step
2.2	Up / Stop
2.3	Down / Stop
2.4	Deadman's Step / Step
2.5	Deadman's Up
2.6	Deadman's Down
2.7	Stop
2.8	Up
2.9	Down

Each command described in table 1 will be stored as a single radio command and is strictly associated with the button pressed. If the receiver recognizes the same radio code but the button is not the correct one, no command is executed. Each time the receiver receives a valid code, it executes only the function for which the code has been assigned.

### 2.2. Operation with local input (wall-mounted push-button panel)

#### 2.2.1. Local input in "lights control" mode

Operation is similar to that in remote mode, with the difference being that in this mode, the local inputs (terminals 1 & 2) can be connected to normal standard power and switching modules (buttons or switches).

To allow this double possibility the following operating logic has been adopted:

- if the contact is kept closed for less than 1 second (i.e., when a button is used), the command is executed only upon closure of the contact,

- if the contact is kept closed for a longer time (i.e., when a switch is used), the command is executed upon both closure and re-opening of the contact.

### 2.2.2. Local input in “motor control” mode

In this mode the local inputs take on the following specifications:

**Table 2**

LOCAL INPUTS OPERATION (Wall-mounted push-button panel)	
Combination	Effective Function
Input 1	Up / Stop
Input 2	Down / Stop
Input 1 and 2 simultaneously	Step / Step

## 3. DEFINITION OF THE FUNCTIONS

### 3.1. “Lights Control” mode functions

“LIGHTS CONTROL” MODE FUNCTIONS	
Function	Description
<b>Monostable</b>	The selected output is activated when any one of the corresponding remote control keys is pressed. If the output is already active (for example during the corresponding activation of the local control), a subsequent activation command (e.g.: pressing the corresponding key of the remote control) is ignored.
<b>Bistable</b>	The outputs are controlled in the following manner: <ul style="list-style-type: none"> <li>- first time the key of the remote control is pressed: the output memorized on the corresponding key is activated;</li> <li>- second time the key of the remote control is pressed: the output is de-activated.</li> </ul> Furthermore, when the local switch is closed and the relative output is active, if the user presses the corresponding key of the remote control, the output is de-activated; when the switch is opened again, the output is activated again. Finally, the bistable mode is the factory-default mode for the module and is automatically reset after the memory has been erased.
<b>Timed</b>	In this mode the selected output is activated remotely when any of the corresponding keys of the remote control is pressed and remains active for a time interval (time-out) memorized in the device. The output can be de-activated by pressing the key, after a minimum time of 5 seconds. The output can be controlled similarly locally as well. (E.g.: if the switch is closed, the output is activated for the set time, after which it is de-activated. If the switch is opened afterwards, the output is activated and the timer starts over. The change of state of the switch is equivalent to pressing the key of the remote control: it causes the de-activation of the output, after a minimum time of 5 seconds.

### 3.2. “Motor control” mode functions


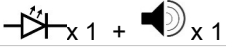


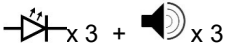
In the motor version there is also a time-out that can be programmed by the user, the purpose of which is to interrupt in any case the command received (from both TX and the local inputs) in order to protect the motor.


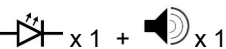


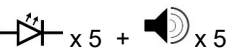
The relays cannot be activated simultaneously. Any change of activation will be preceded by a de-activation of both relays for a minimum period of 500 ms.


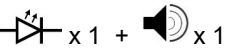
“MOTOR CONTROL” MODE FUNCTIONS	
Function	Description
<b>Step / Step</b>	The motor executes the Step by Step command, i.e., with each new reception of the radio code / wall-mounted control it will have to respect the sequence of UP-STOP-DOWN-STOP-.....
<b>Up / Stop</b>	Upon reception of the command the receiver activates the up relay for the set working time, upon reception of a second command it de-activates the relay.
<b>Down / Stop</b>	Upon reception of the command the receiver activates the down relay for the set working time, upon reception of a second command it de-activates the relay.
<b>Deadman's Step / Step</b>	Upon reception of the command the receiver behaves as in command 1 without, however, the stop command between open and close. Furthermore, the activation of the relay is executed only for the period in which the receiver acknowledges the radio code / local button. The relay is de-activated if the command is no longer present for a continuous period of 500 ms or the maximum working time has expired.
<b>Deadman's Up</b>	Upon reception of the command the receiver activates the up relay. When the radio code / local control is no longer received for a continuous period of 500 ms or the maximum working time is exceeded, the receiver de-activates the relay.
<b>Deadman's Down</b>	Upon reception of the command the receiver activates the down relay. When the radio code / local control is no longer received for a continuous period of 500 ms or the maximum working time is exceeded, the receiver de-activates the relay.
<b>Stop</b>	Upon reception of the command the receiver de-activates the up and down relays.
<b>Up</b>	Upon reception of the command the receiver activates the up relay for a maximum time equal to the set working time.
<b>Down</b>	Upon reception of the command the receiver activates the down relay for a maximum time equal to the set working time.




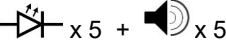



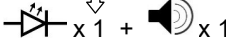

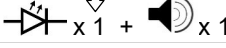

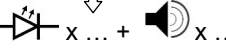

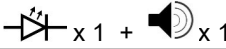
#### 4. PROCEDURES

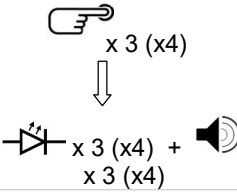
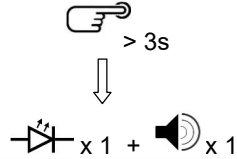
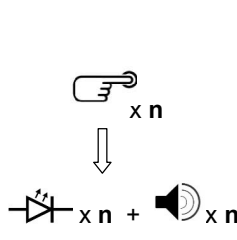
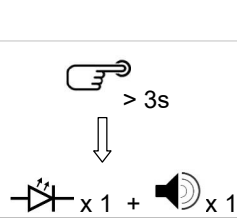
ERASING THE MEMORY OF THE RR2-M RECEIVER		
Step	Description	Example
1	Press and hold the programming button of the MINI-RX until the LED of the receiver blinks once and the buzzer emits one beep.	 ↓ 
2	About 1 second after the button is released the LED on the receiver blinks 5 times.	
3	Press the key of the receiver at the <b>third blink</b> .	↓ 
4	If the erase was successful, the receiver will emit 3 short blinks and 3 beeps.	
5	End	

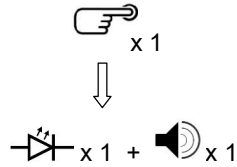
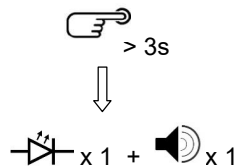
ERASING THE RADIO REMOTE CONTROL MEMORY		
Step	Description	Example
1	Press and hold the programming button of the MINI-RX until the LED of the receiver blinks once and the buzzer emits one beep.	 ↓ 
2	About 1 second after the button is released the LED on the receiver blinks 5 times.	
3	Press the key of the receiver at the <b>fourth blink</b> .	↓ 
4	If the erase was successful, the receiver will emit 5 short blinks and 5 beeps.	
5	End	

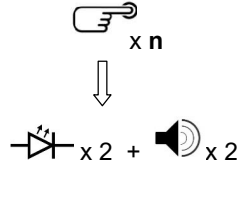
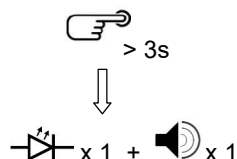
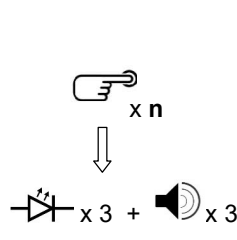
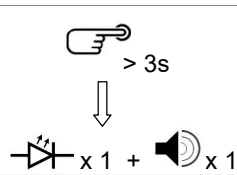
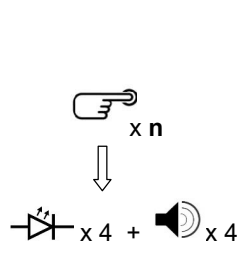
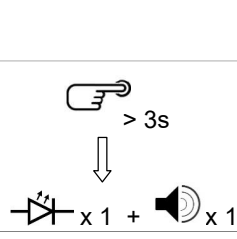
ERASING A SINGLE RADIO REMOTE CONTROL		
Step	Description	Example
1	Press and hold the programming button of the MINI-RX until the LED of the receiver blinks once and the buzzer emits one beep.	 ↓ 

2	About 1 second after the button is released the LED on the receiver blinks 5 times.	
3	Press the key of the receiver at the <b>fifth blink</b> .	↓ 
4	Press the key of the radio remote control that you want to erase.	
5	If the cancellation was successful, the receiver will emit 5 short blinks and 5 beeps.	
6	To erase an additional transmitter, repeat step 4.	
7	To end the procedure, wait for the time-out of 10 seconds.	
8	End	

SELECTING THE DEVICE MODE (Warning! The radio remote controls in memory will also be erased)		
Step	Description	Example
1	Press and hold the programming button of the MINI-RX. The LED of the receiver blinks once and the buzzer emits one beep.  Hold the programming button of the MINI-RX pressed. The LED of the receiver blinks again and the buzzer emits another beep.	 ↓  ↓  ↓ 
2	Press briefly and release the programming button once; the buzzer emits 1 beep: → <b>Lights mode</b> . Press briefly and release the programming button again; the buzzer emits 2 beeps: → <b>Motor mode</b> . Press briefly and release the programming button again; the buzzer emits 1 beep: → <b>Roll back to lights mode</b> . The system will indicate the selection just made to the user every 2 seconds through the LED with a number of (fast) blinks and beeps equal to the selected function.	 ↓ 
3	To conclude the selection, press and hold the programming button. The LED of the receiver blinks once and the buzzer emits one beep.	 ↓ 
4	End	


















PROGRAMMING OUTPUTS 1 and 2 (LIGHTS mode only)		
Step	Description	Example
1	Press briefly and release the programming button of the MINI-RX 3 times (4 times for output 2). The LED of the receiver blinks 3 times (4 for output 2) and the buzzer emits 3 beeps (4 for output 2) every 2 seconds.	
2	Hold the programming button of the MINI-RX pressed. The LED of the receiver blinks again and the buzzer emits another beep.	
3	Press briefly and release the programming button once; the buzzer emits 1 beep: → <b>Monostable</b> . Press briefly and release the programming button again; the buzzer emits 2 beeps: → <b>Bistable</b> . Press briefly and release the programming button again; the buzzer emits 3 beeps: → <b>Timed</b> . Press briefly and release the programming button again; the buzzer emits 1 beep: → <b>Return to monostable</b> . The system will indicate the selection just made to the user every 2 seconds through the LED with a number of (fast) blinks and beeps equal to the selected function.	
4	To memorize the selected mode, press and hold the programming button of the MINI-RX for more than 3 seconds. The LED of the receiver blinks again and the buzzer emits another beep.	
5	End	




PROGRAMMING THE OPERATION TIME-OUT		
Step	Description	Example
1	Press briefly and release the programming button of the MINI-RX. The LED of the receiver blinks once and the buzzer emits one beep every 2 seconds.	
2	Press and hold the programming button of the MINI-RX for more than 3 seconds. The LED of the receiver blinks once and the buzzer emits one beep.	















For the motor version, skip to step 5.		
3	Press the programming button of the receiver as many times as the desired number of hours of activation to be set: <ul style="list-style-type: none"> <li>Press 1 time → 0 Hours</li> <li>Press again → 1 Hour</li> <li>.....</li> <li>Press 10 times → 9 Hours</li> </ul> The receiver emits 2 blinks and 2 beeps each time the button is pressed.	
4	Confirm the operating hours by holding the programming button of the MINI-RX pressed for more than 3 seconds. The receiver will emit one (long) blink and beep of confirmation.	
5	Press the programming button of the receiver as many times as the desired number of minutes of activation to be set: <ul style="list-style-type: none"> <li>Press 1 time → 0 minutes</li> <li>Press again → 1 minute</li> <li>.....</li> <li>Press 60 times → 59 minutes</li> </ul> The receiver emits 3 blinks and 3 beeps each time the button is pressed.	
6	Confirm the operating minutes by holding the programming button of the MINI-RX pressed for more than 3 seconds. The receiver will emit one (long) blink and beep of confirmation.	
7	Press the programming button of the receiver as many times as the desired number of seconds of activation to be set: <ul style="list-style-type: none"> <li>Press 1 time → 1 second</li> <li>Press 2 times → 2 seconds</li> <li>...</li> <li>Press 59 times → 59 seconds</li> </ul> The receiver emits 4 blinks and 4 beeps each time the button is pressed. <p><b>(N.B: If you try to set a time equal to 0 seconds, the MINI-RX will set a default time of 60 seconds in the LIGHTS mode and 240 seconds in the MOTOR mode).</b></p>	
8	Confirm the operating seconds by holding the programming button of the MINI-RX pressed for more than 3 seconds. The receiver will emit one (long) blink and beep of confirmation.	
9	End	



## 5. RADIO PROCEDURES

LEARNING THE RADIO REMOTE CONTROLS IN LIGHTS MODE (for the first and additional radio remote controls)		
Step	Description	Example
1	Press briefly and release the programming button of the MINI-RX 2 times. The LED of the receiver blinks twice and the buzzer emits 2 beeps every 2 seconds.	 x 2 ↓  x 2 +  x 2
2	Hold the programming button of the MINI-RX pressed. The LED of the receiver blinks again and the buzzer emits another beep.	 > 3s ↓  x 1 +  x 1
3	Press briefly and release the programming button once; the buzzer emits 1 beep: → <b>Output 1</b> . Press briefly and release the programming button again; the buzzer emits 2 beeps: → <b>Output 2</b> . Press briefly and release the programming button again; the buzzer emits 1 beep: → <b>Roll back to output 1</b> . The system will indicate the selection just made to the user every 2 seconds through the LED with a number of (fast) blinks and beeps equal to the selected output.	 x n ↓  x n +  x n
4	Press the button of the remote control that you would like to memorize. When the memorization is complete, the receiver will emit two long blinks of the LED and 2 long beeps of the buzzer.	 ↓  x 2 +  x 2
5	To learn an additional remote control (or key), repeat step 3.	
6	To conclude the entering of a remote control, wait for the programming time-out that will be indicated by a long beep and a long blink of the LED.	 x 1 +  x 1
Note	If the memory is full, the receiver will emit 10 blinks and 10 beeps.	 x 10 +  x 10
7	End	

LEARNING THE FIRST REMOTE CONTROL OR ADDITIONAL REMOTE CONTROLS IN MOTOR MODE		
Step	Description	Example
1	Press briefly and release the programming button of the MINI-RX two times. The LED of the receiver blinks twice and the buzzer emits 2 beeps every 2 seconds.	 x 2 ↓  x 2 +  x 2

2	Hold the programming button of the MINI-RX pressed. The LED of the receiver blinks again and the buzzer emits another beep.	 > 3s ↓  x 1 +  x 1
3	To scroll through the menu, press the programming button of the MINI-RX briefly each time until reaching the desired selection (see also the example described in the Chapter "SELECTING THE DEVICE MODE"). <ul style="list-style-type: none"> <li>• 1 beep → mode 2.1 - Step / Step</li> <li>• 2 beeps → mode 2.2 – Up / Stop</li> <li>• 3 beeps → mode 2.3 – Down / Stop</li> <li>• 4 beeps → mode 2.4 - Deadman's Step / Step</li> <li>• 5 beeps → mode 2.5 - Deadman's Up</li> <li>• 6 beeps → mode 2.6 - Deadman's Down</li> <li>• 7 beeps → mode 2.7 – Stop</li> <li>• 8 beeps → mode 2.8 – Up</li> <li>• 9 beeps → mode 2.9 – Down</li> <li>• 1 beep → Roll back to mode 2.1 - Step / Step</li> </ul> The system will indicate the selection just made to the user every 2 seconds through the LED with a number of (fast) blinks equal to the selected function and through the buzzer with a number of (fast) beeps equal to the selected function.	 x n ↓  x n +  x n
4	Press the button of the remote control that you would like to memorize. When the memorization is complete, the receiver will emit two long blinks of the LED and 2 long beeps of the buzzer.	 ↓  x 2 +  x 2
5	To learn an additional remote control, repeat step 3.	
6	To conclude the entering of a remote control, wait for the programming time-out that will be indicated by a long beep and a long blink of the LED.	 x 1 +  x 1
Note	If the memory is full, the receiver will emit 10 blinks and 10 beeps.	 x 10 +  x 10
7	End	

### Notes:

- Maximum operating time for the motor version: → 6 minutes.
- Default motor operating time: → 4 minutes.

## 6. ENVIRONMENTAL PROTECTION

All materials used in the manufacture of this appliance are recyclable.

We recommend that the device itself, and any accessories, packaging, etc. be sent to a centre for ecological recycling as established from laws in force on recycling.

The device is mainly made from the following materials:

Iron  Aluminium  Cuprum  Zinc  Silicon  Plastic of various type

Dispose materials in conformity with local regulations about removal.

To disassemble the device and separate all materials for disposal, use a small screwdriver to remove the terminal board cover.

## 7. RECALL TO MAIN PRINCIPLES OF WARRANTY CERTIFICATE

The manufacturer will guarantee good function of the appliance. The manufacturer shall undertake to replace defective parts due to poor quality materials or manufacturing defects.

The guarantee covers products and individual parts for **2 years** from the date of purchase. The latter is valid as long as the purchaser possesses proof of purchase and completion of all agreed conditions of payment.

Guarantee of good function of appliances agreed by the manufacturer implies that the latter undertakes to repair or replace free of charge and in the shortest period possible any parts that break while under warranty. The purchaser is not entitled to any reimbursement for eventual direct or indirect damage or other expenses incurred. Attempt to repair by personnel unauthorised by the manufacture shall render the warranty null and invalid.

The warranty does not cover fragile parts or parts subject to natural wear and tear or corrosion, overload, however temporary etc. The manufacturer will accept no responsibility for eventual damage incurred by erroneous assembly, manoeuvre or insertion, excessive stress or inexpert use.

Repairs performed under guarantee are always *"ex-factory of the manufacturer"*. Respective transport expenses (out/back) are the responsibility of the purchaser.

## 8. DECLARATION OF CONFORMITY

The undersigned,  
Company name: **NEKOS S.r.l**  
Postal address: **Via Capitoni, 7/5**  
Postcode and city: **36064 Colceresa VI**  
Telephone number: **+39 0424 411011**  
E-mail address: **info@nekos.it**

declare that the document is issued under our sole responsibility and belongs to the following product:

Apparatus model / Product: **Radio receiver RR2-M**

Trademark: **NEKOS**

Model/Type: **RR2-M**

Batch: *see data label*

Serial number: *see data label*

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- **2014/53/EU Radio Equipment (RED)**
- **2011/65/EU Restriction of the use of certain hazardous substances Directive (RoHS Directive)**
- **2015/863/EU Delegated Directive amending Annex II of Directive 2011/65/EU of the European Parliament and of the Council regarding the list of substances with usage restrictions**

The following harmonised standards and/or technical specifications have been applied:

**EMC:**

**EN 61000-6-3:2007 + A1:2011 + AC:2012**

**EN IEC 61000-6-2:2019**

**LVD**

**EN 60335-1:2012 + AC:2014+A11:2014**

**RED**

**ETSI EN 300 220-1 V3.1.1 - ETSI EN 300 220-2 V3.2.1**

**ETSI EN 301 489-1 V2.2.3 - ETSI EN 301 489-3 V2.1.1**

**RoHS**

**EN 50581:2012**



Place: **Colceresa**

Date: **04/03/2020**

Signature:   
**Giuliano Galliazzo (A.D. – President)**



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