Installer manual

433RAD.T
Plug-in 2-channel receiver 12/24 V 433 MHz

ELVOX Gates

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WARNINGS FOR THE INSTALLER
Carefully read all instructions and warnings in this document as they provide important information regarding safety during installation, operation and maintenance.
After removing the packing, check the condition of the device. The packaging must not be left within reach of children as it is potentially harmful. Installation must be carried out in accordance with national safety regulations.
This device must only be used for the purpose for which it was expressly designed, e.g. for automation systems for gates and garage doors.
Any other use is considered improper and therefore hazardous. The manufacturer declines all liability for damage caused by improper, incorrect or un-reasonable use.
Always disconnect the device from the power supply at the main switch before performing maintenance or cleaning procedures.
In the event of faults and/or malfunctions, disconnect the power supply immediately by means of the switch and do not tamper with any part. For repairs, contact only a service centre authorized by the manufacturer. Failure to observe the above may impair equipment safety.
All devices within the installation must be used exclusively for the purpose for which they are intended.
This document must always be kept with all paperwork regarding the installation.

Directive 2002/96/EC (WEEE).
The crossed out wheelie bin symbol marked on the equipment indicates that, at the end of its useful working life, the product must be handled sepa-rately from household refuse and must therefore be assigned to a differentiated collection centre for electrical and electronic equipment or returned to the dealer upon purchase of a new, equivalent item of equipment.

The user is responsible for ensuring the appliance is disposed of through the correct channels when no longer in service. Proper sorted waste collection for subsequent recycling, processing and environmentally conscious disposal of the old appliance helps to prevent any possible negative impact on the environment and human health while promoting the practice of recycling materials used in manufacture. For more detailed information regarding available waste collection systems, contact your local waste disposal service or the shop from which the appliance was purchased.

Risks associated with substances considered hazardous (WEEE).
According to the new WEEE Directive, substances which for some time have been widely used in electrical and electronic equipment are considered hazardous to human heath and the environment. Proper sorted waste collection for subsequent recycling, processing and environmentally conscious dis-posal of the old equipment helps to prevent any possible negative impact on the environment and human health while promoting the practice of recycling materials used in manufacture.

REACH (EU) Regulation no. 1907/2006 – Art.33.
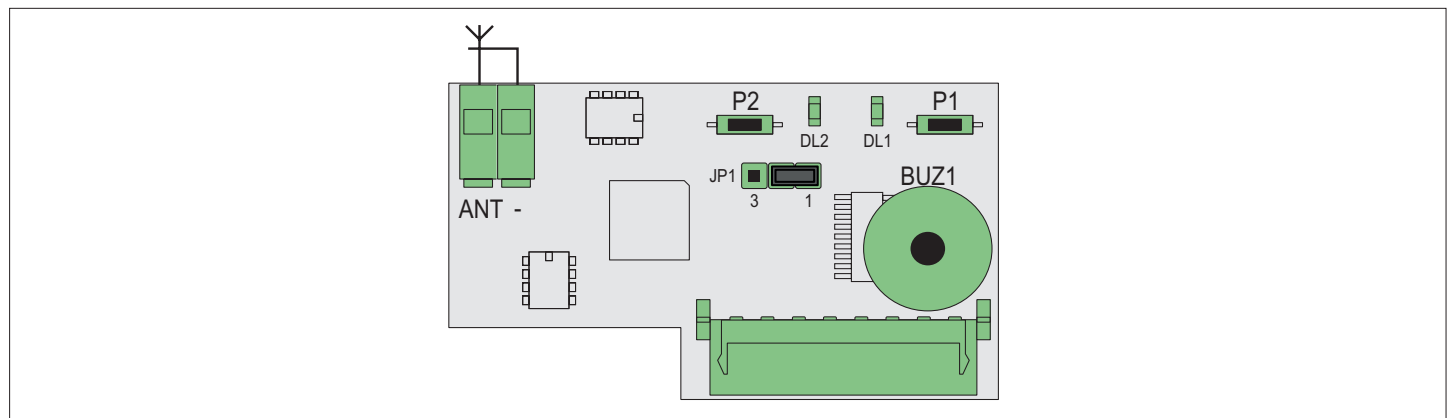The product may contain traces of lead.

1 - Product features:

433 MHz plug-in radio receiver for Elvox Rolling-code or fixed-code remote controls, for SL24.T and SW24.T control panels. It is equipped with 2 on-board outputs and buttons and LEDs for programming and diagnostics.
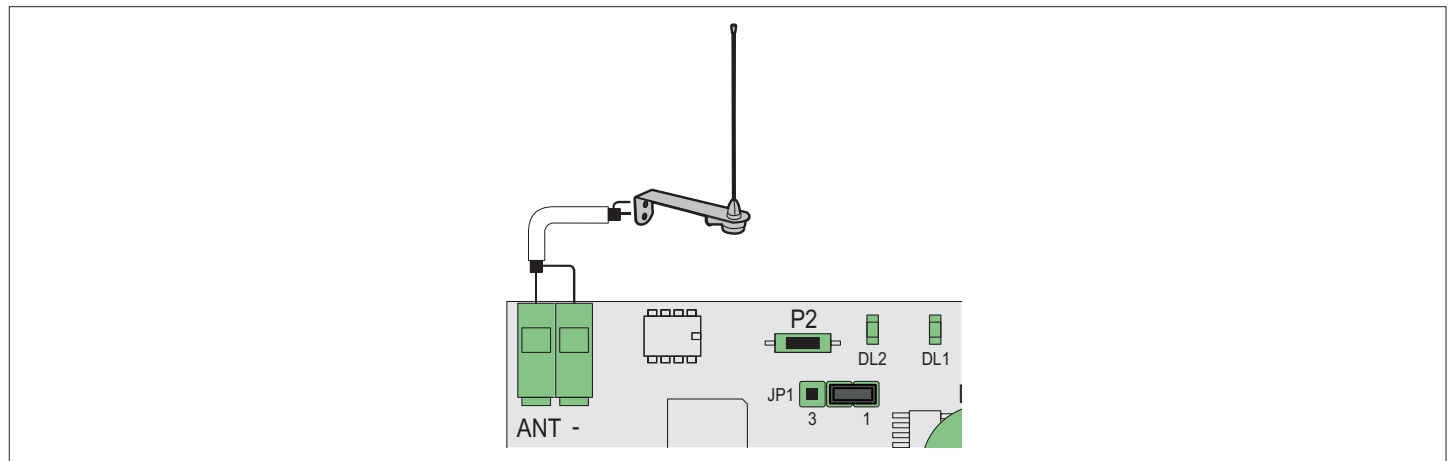
Technical data

Power supply	5 Vdc (supplied from the plug-in connector on the control board)
Absorption	10 mA
Frequency	433 MHz
Code	Elvox Rolling-code or fixed code
Memory	300 radio codes
Number of outputs	2
Output state	NO
Aerial input impedance	50 Ω
Sensitivity	-100 dBm
Operating temperature	-20 to +60°C
It can be used on control boards	SL24.T, SW24.T

2 - Power supply:

Connect the receiver to the CNRX connector of the SL24.T and SW24.T control boards.

3 - Connecting the aerial:

4 - Saving remote controls:

Note: the receiver can save rolling-code and fixed code remote controls. The first saved remote control determines the code accepted by the receiver. The receiver memory does not accept mixed coding.
To change the coding accepted by the receiver, delete all remote controls in the memory.

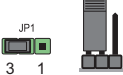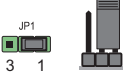To save the remote controls proceed as shown in the table below:

Step	Action		Signal	
1	Press P1 to enter remote control programming	P1 x 1	DL1 flashes rapidly	DL1
2	Press P1 to select the required output to save the remote control on: 0 press > output 1 1 press > output 2	P1 x n	The rapidly flashing LED signals the selection of the corresponding output: DL1 > output 1 DL2 > output 2	DLX
3	Press the push button of the remote control you want to save		LEDs DL1, DL2 come on steady for 1 s to confirm the saving.	DL1 DL2
4	Repeat the procedure to save other remote control buttons			

5 - Saving remote controls via radio:
The saving via radio function is used to save remote controls not in the memory without directly using the receiver programming buttons, but using only the first remote control saved or another remote control already in the memory.
This function is available only for rolling-code remote controls.

To enable or disable remote control saving via radio select the following jumper position JP1:

Position jumper JP1	Type of saving via radio
JP1 3 1	Saving via radio not enabled
JP1 3 1	Saving via radio available with all remote controls in the memory
JP1 3 1	Saving via radio available only with the first remote control in the memory

To save the remote controls via radio proceed as shown in the table below:

Step	Action		Signal	
1	Press button 1 and button 2 on a remote control already in the memory to enable the programming via radio procedure Note: the programming via radio procedure is active for 10 s, after 10 s the receiver automatically exits the programming		The receiver buzzer gives off an intermittent beep. Note: as long as the buzzer is beeping the programming via radio is active	
2	Press the button on the remote control already saved to copy on the new remote control. The receiver buzzer beeps to indicate which output is associated to the pressed button		1 beep > output 1 2 beep > output 2	
3	Press the push button of the remote control you want to save		The buzzer gives off a long beep to confirm the saving	
4	Repeat the procedure to save other remote control buttons		The buzzer is switched off	

6 - Deleting a single remote control:
To delete a single remote control proceed as shown in the table below:

Step	Action		Signal	
1	Press P2 to enter remote control deletion	P2 x 1	LEDs DL1, DL2 flash rapidly	
2	Press the button on the remote control to delete		LEDs DL1, DL2 come on steady for 1 s to confirm the deletion.	
3	Repeat the same procedure to delete other remote controls		All LEDs are switched off	

Note: the delete procedure for a single remote control deletes all the buttons on the remote control associated to the receive.

7 - Deleting all the remote controls:
To delete all the remote controls proceed as shown in the table below:

Step	Action		Signal	
1	Press and hold down P1 and P2	P1 + P2	LEDs DL1, DL2 flash rapidly	DL1 DL2
2	Keep holding down P1 and P2	P1 + P2	LEDs DL1, DL2, DL3 come on steady for 1 s	DL1 DL2
3	Deletion successful		All LEDs are switched off	

Note: you can now change the type of remote control coding accepted by the receiver.

8 - LED signals in normal operation:

Event	LED	Colour	Signal
Reception of a radio signal from a remote control in the memory on output CH1-2	DL1-2	Red	1 blink
Reception of a radio signal from a valid remote control not in the memory	DL1-2	Red	1 flash in sequence DL2-DL1
			Several flashes while held down

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