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REW-SRV SYSTEM - STAIRLIFT Radio Control System

TECHNICAL MANUAL

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HANDHELD TRANSMITTER “PFREW-TXSRV-AXXX”



Some examples produced by REW srl for companies in the sector

TECNICAL SPECIFICATIONS

- Power supply 3Vdc (2x1,5V AAA Battery)
- Supply current 25-30 mA (Potenza Max +10 dbm)
- Two indication leds
- 16 radio channels on 433 Mhz (from 433,150 Mhz to 434,650 Mhz)
- Channels step 100 Khz
- Deviation +- 25 Khz
- Modulation GFSK
- Maximum radio power + 10 dbm
- Sensitivity -110 dbm
- Low battery indication for power supply under 2,4V

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HANDHELD TRANSMITTER SETTING :

Handheld transmitter is controlled by an electronic board that can be set using the dip switch S1, as described below.

- RADIO CHANNEL SETTING

Since the transmission frequency are public, there might be other devices using the same frequency resulting in interference. The transmitter can be configured to use 16 different radio channels; Therefore if at the time of installation is experiencing interference, you can change the radio channel to broadcast in the way described below. If you install multiple stairlift close together to avoid mutual interference is necessary for each system uses a different radio channel.

Transmitter is factory set with channel 1 selected.

Dip switches from 1 to 4 allow you to select the transmission frequency up to 16 channels (from 433.150 Mhz to 434.650 Mhz), as shown in the following table:

S1-1	S1-2	S1-3	S1-4	Radio Frequency
OFF	OFF	OFF	OFF	1 (433,150 Mhz)
ON	OFF	OFF	OFF	2 (433,250 MHz)
OFF	ON	OFF	OFF	3 (433,350 Mhz)
ON	ON	OFF	OFF	4 (433,450 Mhz)
OFF	OFF	ON	OFF	5 (433,550 Mhz)
ON	OFF	ON	OFF	6 (433,650 Mhz)
OFF	ON	ON	OFF	7 (433,750 Mhz)
ON	ON	ON	OFF	8 (433,850 Mhz)
OFF	OFF	OFF	ON	9 (433,950 Mhz)
ON	OFF	OFF	ON	10 (434,050 Mhz)
OFF	ON	OFF	ON	11 (434,150 Mhz)
ON	ON	OFF	ON	12 (434,250 Mhz)
ON	OFF	ON	ON	13 (434,350 Mhz)
ON	OFF	ON	ON	14 (434,450 Mhz)
OFF	ON	ON	ON	15 (434,550 Mhz)
ON	ON	ON	ON	16 (434,650 Mhz)

WARNING ! : Be careful to set the same channel radio on transmitters and receiver on the same installation.



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- RADIO POWER SETTING

Dip switches 6 and 7 allow to select the transmitting power according to the following table:

S1-6	S1-7	Radio Power
OFF	OFF	-20 dbm
ON	OFF	-10 dbm
OFF	ON	0 dbm
ON	ON	+10 dbm

To get maximum performance from the system, in terms of working distance, select the maximum power (+10 dbm)

Dip switches S1-8 is not used. Leave it in OFF position.

WARNING ! : Transmitter has dip switch S2. Dip-switch S2-1, S2-2, S2-3 are not used and should be left OFF. Dip-switch S4-4 must be in the ON position.

OPERATIONS DESCRIPTION :

The handheld transmitter is used through buttons or Joystick, which permit to send commands UP, DOWN, OPENING and CLOSING PLATFORM according to directions printed on the handheld transmitter.

When executing a command, the handheld transmitter gives to the user some functional informations via two LEDs:

- **GREEN Led** : It BLINK when the transmitter is transmitting

- **RED Led** : It's ON when the battery is low

If the red led is ON, user must replace the transmitter batteries.

If the green led is OFF during transmission, it means that the transmitter is fault.



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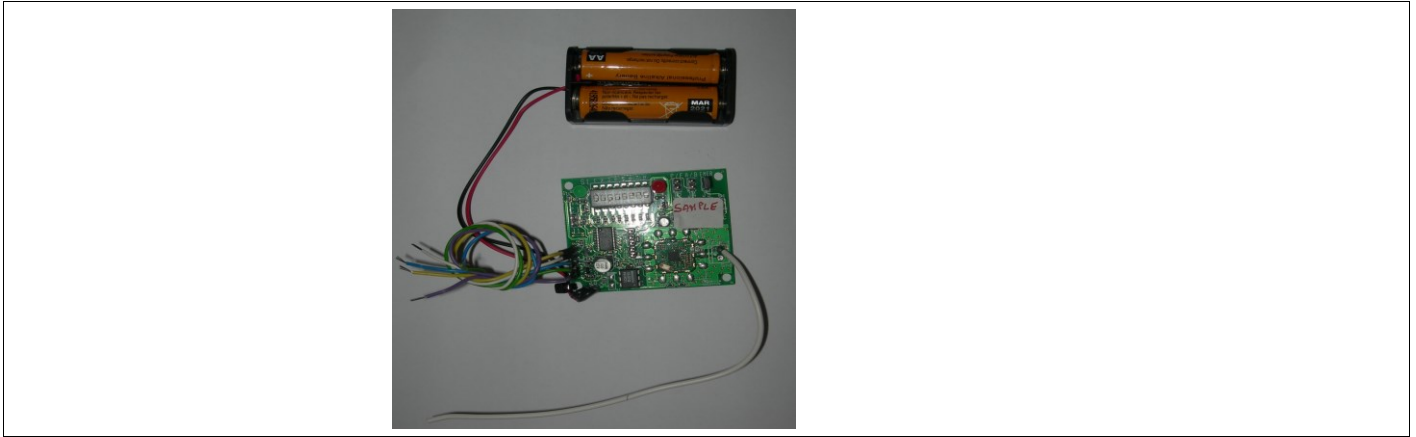
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REW-SRV SYSTEM - STAIRLIFT Radio Control System TECHNICAL MANUAL

TRANSMITTER OPEN FRAME - "PFREW-TXSRV-AXXX"



TECNICAL SPECIFICATIONS

- Power supply 3Vdc (2x1,5V AA Battery)
- Supply current 25-30 mA (Potenza Max +10 dbm)
- Two indication leds
- 16 radio channels on 433 Mhz (from 433,150 Mhz to 434,650 Mhz)
- Channels step 100 Khz
- Deviation +- 25 Khz
- Modulation GFSK
- Maximum radio power + 10 dbm
- Sensitivity -110 dbm
- Low battery indication for power supply under 2,4V

WIRING TABLES

Wiring tables of transmitter board are the following :

Terminal block J6 (3Vcc)

Writing on PCB	Signal meaning
+	Power supply + 3VDC
-	Power supply GROUND VDC

Terminal block M2 (Antenna)

Writing on PCB	Signal meaning
Ant	Antenna +
Gnd	Antenna -

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Terminal block J7 (OUT)

Writing on PCB	Wire colour	Signal meaning
1	YELLOW	COMMON SIGNAL
2	WHITE	UP COMMAND
3	BLUE	DOWN COMMAND
4	GREEN	OPEN PLATFORM COMMAND
5	VIOLET	CLOSE PLATFORM COMMAND

TRANSMITTER SETTING :

Transmitter board can be set using the dip switch S1, as described below.

- RADIO CHANNEL SETTING

Since the transmission frequency are public, there might be other devices using the same frequency resulting in interference. The transmitter can be configured to use 16 different radio channels; Therefore if at the time of installation is experiencing interference, you can change the radio channel to broadcast in the way described below. If you install multiple stairlifts close together to avoid mutual interference is necessary for each system uses a different radio channel.

Transmitter is factory set with channel 1 selected.

Dip switches from 1 to 4 allow you to select the transmission frequency up to 16 channels (from 433.150 Mhz to 434.650 Mhz), as shown in the following table:

S1-1	S1-2	S1-3	S1-4	Radio Frequency
OFF	OFF	OFF	OFF	1 (433,150 Mhz)
ON	OFF	OFF	OFF	2 (433,250 MHz)
OFF	ON	OFF	OFF	3 (433,350 Mhz)
ON	ON	OFF	OFF	4 (433,450 Mhz)
OFF	OFF	ON	OFF	5 (433,550 Mhz)
ON	OFF	ON	OFF	6 (433,650 Mhz)
OFF	ON	ON	OFF	7 (433,750 Mhz)
ON	ON	ON	OFF	8 (433,850 Mhz)
OFF	OFF	OFF	ON	9 (433,950 Mhz)
ON	OFF	OFF	ON	10 (434,050 Mhz)
OFF	ON	OFF	ON	11 (434,150 Mhz)
ON	ON	OFF	ON	12 (434,250 Mhz)
ON	OFF	ON	ON	13 (434,350 Mhz)
ON	OFF	ON	ON	14 (434,450 Mhz)
OFF	ON	ON	ON	15 (434,550 Mhz)
ON	ON	ON	ON	16 (434,650 Mhz)

WARNING ! : Be careful to set the same channel radio on transmitters and receiver on the same installation.



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- RADIO POWER SETTING

Dip switches 6 and 7 allow to select the transmitting power according to the following table:

S1-6	S1-7	Radio Power
OFF	OFF	-20 dbm
ON	OFF	-10 dbm
OFF	ON	0 dbm
ON	ON	+10 dbm

To get maximum performance from the system, in terms of working distance, select the maximum power (+10 dbm)

Dip switches S1-8 is not used. Leave it in OFF position.

WARNING ! : Transmitter have jumpers J1, J2, J4 e J5.

J1, J2 e J4 must always be unjumpered while J5 must be always jumpered

OPERATIONS DESCRIPTION

The transmitter is used through wires, which permit to send commands to UP, DOWN, OPENING and CLOSING PLATFORM according to wiring table of terminal block J7.

When executing a command, the transmitter gives to the user some functional informations via two LEDs:

- **GREEN Led** : It BLINK when the transmitter is transmitting

- **RED Led** : It's ON when the battery is low

If the red led is ON, user must replace the transmitter batteries.

If the green led is OFF during transmission, it means that the transmitter is fault.



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REW-SRV SYSTEM - STAIRLIFT Radio Control System TECHNICAL MANUAL

TRANSMITTER WALL BOX “PFREW-TXSRV-AXXX”

(These are some examples that we have produced for our customers. These are just examples and can not be sold. Our company can design a customized device for you.)



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TECNICAL SPECIFICATIONS

- Power supply 3Vdc (2x1,5V AA Battery)
- Supply current 25-30 mA (Potenza Max +10 dbm)
- Two indication leds
- 16 radio channels on 433 Mhz (from 433,150 Mhz to 434,650 Mhz)
- Channels step 100 Khz
- Deviation +- 25 Khz
- Modulation GFSK
- Maximum radio power + 10 dbm
- Sensitivity -110 dbm
- Low battery indication for power supply under 2,4V

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TRANSMITTER SETTING :

Transmitter board can be set using the dip switch S1, as described below.

- RADIO CHANNEL SETTING

Since the transmission frequency are public, there might be other devices using the same frequency resulting in interference. The transmitter can be configured to use 16 different radio channels; Therefore if at the time of installation is experiencing interference, you can change the radio channel to broadcast in the way described below. If you install multiple stairlifts close together to avoid mutual interference is necessary for each system uses a different radio channel.

Transmitter is factory set with channel 1 selected.

Dip switches from 1 to 4 allow you to select the transmission frequency up to 16 channels (from 433.150 Mhz to 434.650 Mhz), as shown in the following table:

S1-1	S1-2	S1-3	S1-4	Radio Frequency
OFF	OFF	OFF	OFF	1 (433,150 Mhz)
ON	OFF	OFF	OFF	2 (433,250 MHz)
OFF	ON	OFF	OFF	3 (433,350 Mhz)
ON	ON	OFF	OFF	4 (433,450 Mhz)
OFF	OFF	ON	OFF	5 (433,550 Mhz)
ON	OFF	ON	OFF	6 (433,650 Mhz)
OFF	ON	ON	OFF	7 (433,750 Mhz)
ON	ON	ON	OFF	8 (433,850 Mhz)
OFF	OFF	OFF	ON	9 (433,950 Mhz)
ON	OFF	OFF	ON	10 (434,050 Mhz)
OFF	ON	OFF	ON	11 (434,150 Mhz)
ON	ON	OFF	ON	12 (434,250 Mhz)
ON	OFF	ON	ON	13 (434,350 Mhz)
ON	OFF	ON	ON	14 (434,450 Mhz)
OFF	ON	ON	ON	15 (434,550 Mhz)
ON	ON	ON	ON	16 (434,650 Mhz)

WARNING ! : Be careful to set the same channel radio on transmitters and receiver on the same installation.

- RADIO POWER SETTING

Dip switches 6 and 7 allow to select the transmitting power according to the following table:

S1-6	S1-7	Radio Power
OFF	OFF	-20 dbm
ON	OFF	-10 dbm
OFF	ON	0 dbm
ON	ON	+10 dbm



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TECHNICAL MANUAL

To get maximum performance from the system, in terms of working distance, select the maximum power (+10 dbm)

Dip switches S1-8 is not used. Leave it in OFF position.

WARNING ! : Transmitter have dip switch S2. Dip-switch S2-1, S2-2, S2-3 are not used and should be left OFF. Dip-switch S4-4 must be in the ON position.

OPERATIONS DESCRIPTION :

The transmitter is used through buttons, Joystick or Key, which permit to send commands to UP, DOWN, OPENING and CLOSING PLATFORM according to wiring table of terminal block J7.

When executing a command, the transmitter gives to the user some functional informations via two LEDs:

- **GREEN Led** : It BLINK when the transmitter is transmitting

- **RED Led** : It's ON when the battery is low

If the red led is ON, user must replace the transmitter batteries.

If the green led is OFF during transmission, it means that the transmitter is fault.



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TECHNICAL MANUAL

OPTIONAL OPERATIONS AND CONFIGURATIONS

OPERATION WITH PASSWORD

To prevent the radio remote control from being used by unauthorized persons, it is possible to provide it with this functionality.

The handheld transmitter with password works in two different modes:

- 1 - Operation WITHOUT PASSWORD
- 2 - Operation WITH PASSWORD

OPERATING MODE CHECK

By pressing the "OPEN" and "CLOSE" buttons at the same time, after about 1 second the LEDs indicate the current operating mode:

- If the GREEN LED lights up it means that the current operating mode is WITHOUT PASSWORD
- If the RED LED lights up it means that the current operating mode is WITH PASSWORD

CHANGE OF OPERATING MODE

Pressing contemporaneously "OPEN" and "CLOSE" buttons for at least 10 seconds, the operating mode is switched and also switches the LED on as indicated above.

Operation WITHOUT PASSWORD: In the operation without password, by pressing the buttons relative to the commands the transmitter sends the relative command.

Operation WITH PASSWORD: When operating with a password, by pressing any button, the GREEN led will turn on to indicate that the remote control is waiting for the password to be entered (remember that the password consists of 4 Buttons : UP, DOWN, DOWN, DOWN).



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OPERATION MODE WITH PASSWORD ENABLE

- Pressing one button to turn ON the hand held and insert the Password
- Press UP and check that the RED LED will turn ON
- Press DOWN and check that the RED LED will turn OFF
- Press DOWN and check that the RED LED will turn ON
- Press DOWN and check that the RED LED will turn OFF

NB: If a button will be pressed without insert the password, after 5 seconds the hand held will turn OFF.

That means that the user will have 5 seconds to start to insert the password.

If the entered password is wrong, all the LEDs will turn off after pressing the fourth button of the combination.

If the password is correct, the GREEN led blinks quickly to indicate that the keyboard is active and the user can send commands to the RECEIVER.

After 20 seconds from the last time that a button was pressed the GREEN led switches off and the remote control stops working. To use the remote control, you must enter the password again.

CONFIGURATION WITH EUROKEY KEY

On request it is possible to supply the radio control with the EUROKEY.





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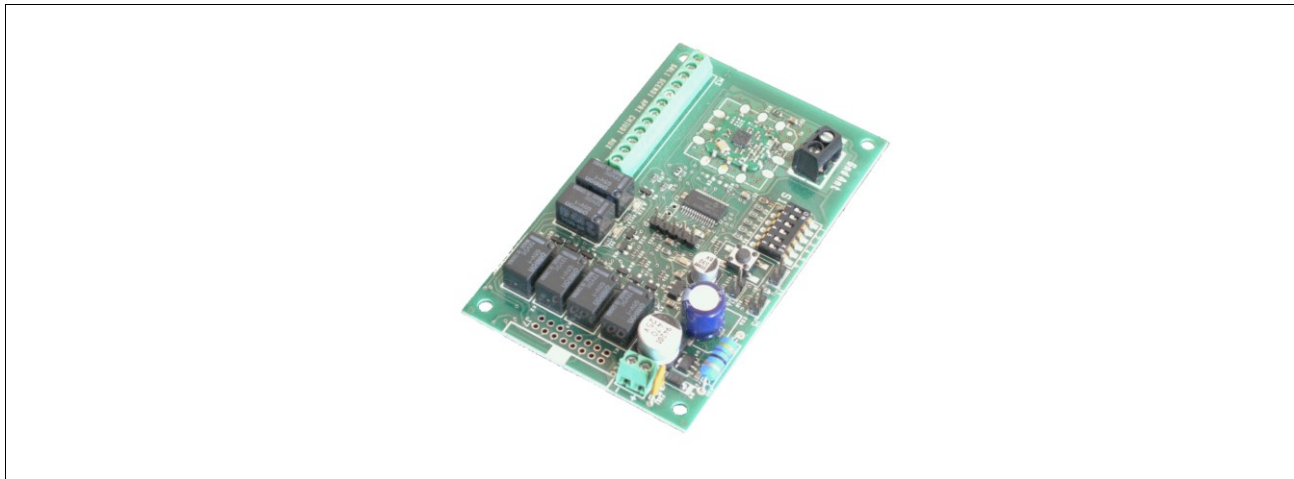
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REW-SRV SYSTEM - STAIRLIFT Radio Control System

TECHNICAL MANUAL

RECEIVER “PFREW-RXSRV-AXXX”



TECNICAL SPECIFICATIONS

- Power supply : 24VDC
- Supply current 25-30 mA (Potenza Max +10 dbm)
- Two indication leds
- 16 radio channels on 433 Mhz (from 433,150 Mhz to 434,650 Mhz)
- Channels step 100 KHz
- Deviation +- 25 KHz
- Modulation GFSK
- Maximum radio power + 10 dbm
- Sensitivity -110 dbm

WIRING TABLES

Wiring tables of transmitter board are the following :

Terminal block M1 (24Vcc)

Writing on PCB	Signal meaning
+	Power supply + 24VDC
-	Power supply GROUND VDC

Terminal block M2 (Antenna)

Writing on PCB	Signal meaning
Ant	Antenna +
Gnd	Antenna -

**WARNING ! : The antenna of the receiver board consists of a rigid single wire.
For optimal operation of the receiver, the antenna must be orthogonal to the ground.**

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Terminal block M3 (OUT)

Writing on PCB		Signal meaning
SALI	C	UP COMMAND OUTPUT - COMMON SIGNAL
	NA	UP COMMAND OUTPUT - NORMALLY OPEN SIGNAL
SCENDI	C	DOWN COMMAND OUTPUT - COMMON SIGNAL
	NA	DOWN COMMAND OUTPUT - NORMALLY OPEN SIGNAL
APRI	C	PLATFORM OPEN COMMAND OUTPUT - COMMON SIGNAL
	NA	PLATFORM OPEN COMMAND OUTPUT - NORMALLY OPEN SIGNAL
CHIUDI	C	PLATFORM CLOSE OUTPUT - COMMON SIGNAL
	NA	PLATFORM CLOSE OUTPUT - NORMALLY OPEN SIGNAL
AUX	C	SPARE OUTPUT - COMMON SIGNAL
	NA	SPARE OUTPUT - NORMALLY OPEN SIGNAL
AB	C	SPARE OUTPUT - COMMON SIGNAL
	NA	SPARE OUTPUT - NORMALLY OPEN SIGNAL

RECEIVER SETTING :

Receiver board can be set using the dip switch S1, as described below.

- RADIO CHANNEL SETTING

As for the transmitter, the receiver radio channel used can be selected.

Receiver is factory set with channel 1 selected.

Dip switches from 1 to 4 allow you to select the transmission frequency up to 16 channels (from 433.150 Mhz to 434.650 Mhz), as shown in the following table:

S1-1	S1-2	S1-3	S1-4	Radio Frequency
OFF	OFF	OFF	OFF	1 (433,150 Mhz)
ON	OFF	OFF	OFF	2 (433,250 MHz)
OFF	ON	OFF	OFF	3 (433,350 Mhz)
ON	ON	OFF	OFF	4 (433,450 Mhz)
OFF	OFF	ON	OFF	5 (433,550 Mhz)
ON	OFF	ON	OFF	6 (433,650 Mhz)
OFF	ON	ON	OFF	7 (433,750 Mhz)
ON	ON	ON	OFF	8 (433,850 Mhz)
OFF	OFF	OFF	ON	9 (433,950 Mhz)
ON	OFF	OFF	ON	10 (434,050 Mhz)



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OFF	ON	OFF	ON	11 (434,150 Mhz)
ON	ON	OFF	ON	12 (434,250 Mhz)
ON	OFF	ON	ON	13 (434,350 Mhz)
ON	OFF	ON	ON	14 (434,450 Mhz)
OFF	ON	ON	ON	15 (434,550 Mhz)
ON	ON	ON	ON	16 (434,650 Mhz)

WARNING ! : Be careful to set the same channel radio on transmitters and receiver on the same installation.

- UP/DOWN DIRECTION SETTING

UP and DOWN command directions can be reversed with the dip switches 5. This feature is useful to manage the difference between left and right systems while maintaining the same cabling for both types of system.

When S1-5 is OFF, UP output is activated at the radio up command from transmitter and DOWN output is activated at the radio down command from transmitter.

When S1-5 is ON, UP output is activated at the radio down command from transmitter and DOWN output is activated at the radio up command from transmitter.

- COMMAND LATCHING TIME SETTING

When the receiver loses a radio command, the command that until that moment had been received is retained for a LATCHING TIME that can be configured through dip switch S1-6, according to the following table:

S1-6	LATCHING Time (seconds)
OFF	1,5 (sec)
ON	3 (sec.)

During operations, the transmitter provides the stop command to a release of one of the commands (UP, DOWN, OPEN PLATFORM, CLOSE PLATFORM). This allows the relay to turn off immediately. **Latching time is used only if the radio signal is momentarily lost for a few moments.**

OPERATIONS DESCRIPTION

The receiver board has 6 normally open relay outputs, described in previous wiring table.

- UP relay is turned on when receiver receives UP or DOWN radio command depending on the configuration of the dip switches S1-5.

- DOWN relay is turned on when receiver receives a DOWN or UP radio command depending on the configuration of the dip switches S1-5.

- OPEN PLATFORM relay is turned on when receiver receives a OPEN PLATFORM radio command.

- CLOSE PLATFORM relay is turned on when receiver receives a CLOSE PLATFORM radio command.

- AUX and AB relay are spare output. They can be used for specific functions upon request.

Receiver board have leds used to give the user some functional informations:



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- **RED Led (D8)** : It's ON when the receiver board is powered.
- **GREEN Led VERDE** : BLINK when the receiver is receiving.
- **RED Leds (APRI, SCENDI, APRI, CHIUDI, AUX e AB)** : Each one is ON when the associated relay is turned on.

NEAR / FAR FUNCTION CALIBRATION

OPEN and CLOSE PLATFORM commands are transmitted with a radio power lower than UP and DOWN command to avoid the user to see the platform without seeing it.

This radio power has a factory setting, but can be changed by the installer according to the methods described below.

- **HIGH power.** To transmit OPEN and CLOSE PLATFORM commands with the same radio power of UP and DOWN command, jumper J5 must be jumpered.
- **LOW power.** To set the radio power of OPEN and CLOSE PLATFORM, J5 must be unjumpered. Then follow the steps described below.
 - 1 – Power off receiver board.
 - 2 – Power on receiver board while pressing S2 pushbutton until the GREEN led is ON.
 - 3 – Release S2 pushbutton and goes with a transmitter at a distance beyond which you don't want the opening and closing commands platform work.
 - 4 – Send any command via the transmitter until GREEN led turns OFF.
 - 5 – Power off receiver board.
 - 6 – Power on receiver board.



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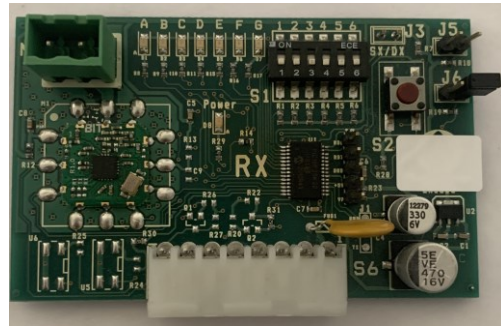
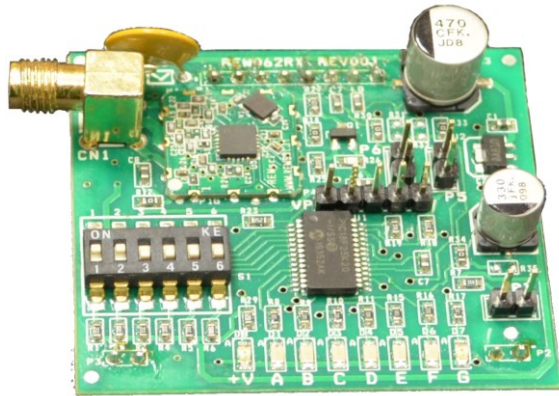
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REW-SRV SYSTEM - STAIRLIFT Radio Control System TECHNICAL MANUAL

RECEIVER RS232 “PFREW-RXSRV-BXXX”



Some examples produced by REW srl for companies in the sector

This type of receiver has no drive relay but communicates directly with the movement main board. Communication comes by RS232 TTL serial. The communication protocol can be customized and designed according to the customer's needs

TECNICAL SPECIFICATIONS :

- Power supply : 5VDC
- Supply current 10 mA (Potenza Max +0 dbm)
- Two indication leds
- 16 radio channels on 433 Mhz (from 433,150 Mhz to 434,650 Mhz)
- Channels step 100 Khz
- Deviation +- 25 Khz
- Modulation GFSK
- Maximum radio power + 10 dbm
- Sensitivity -110 dbm



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REW-SRV SYSTEM - STAIRLIFT Radio Control System

TECHNICAL MANUAL

FUNCTIONING IN ACCORDANCE WITH THE 81.40 NORM

The latest revision of the 81.40 standard provides that each remote control must be able to operate only the stairlift device on which it is intended for use. In particular paragraph 5.5.13.1:

“The cableless control system shall be designed to work with a single stairlift. It shall be designed such that the stairlift shall not initiate movement to coded signal from another stairlift or other emitting sources”

In compliance with the above, the radio system can be supplied with an additional function which requires that each remote control leaves the factory with a unique number memorized inside. This number must be associated with the radio receiver. This association guarantees that only the remote controls associated with the receiver will be able to move the stairlift.

There are two methods for associating a remote control with the receiver.

METHOD 1

This method provides for memorizing the remote control without acting on the receiver. It is indicated in cases of remote control replacement or the addition of a new remote control.

Procedure:

- Open the remote control and put ON dip 5 of S1.
- Press one of the commands for 4 seconds.
- Put OFF dip 5 of S1.
- Power down the receiver and power up the receiver again. Receiver is ready for use.

METHOD 2

This method acts directly on the radio receiver, therefore the latter must be reachable by the installer.

Procedure:

- Power down the receiver.
- Insert jumper J6 on the receiver and power it up.
- Press a command on the transmitter and keep it pressed until the green led on the receiver goes off. Memorize other remote controls or proceed by following the steps written below.
- Power down the receiver and remove jumper J6.
- Power up the receiver. Receiver is ready for use.



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REW-SRV SYSTEM - STAIRLIFT Radio Control System

TECHNICAL MANUAL

DELETING of remote controls from the receiver

This procedure deletes all the remote controls memorized on the receiver.

Procedure:

- Power down the receiver
- Insert jumper J6 on the receiver and power it up.
- Put dips 1-2-3-4 of S1 (on the receiver) ON and verify if green led blinks.
- Attend 3 seconds and power down the receiver.
- Remove jumper J6 and put dips 1-2-3-4 of S1 OFF or in the previously used operating position. Receiver has deleted all the remote controls.

RECOMMENDATIONS

- The devices described in this manual are intended to be installed on stairlifts made in compliance with the applicable parts of the EN 81-40:2020 standard.
- The devices described in this manual cannot be used to directly control the power supply of the drives and/or brakes of the stairlift on which it is installed.
- The signals output to the receiver must be managed by a control board (or similar component) which must be set up by the stairlift manufacturer.



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