CDVI SEL2641R433-RCV Bluetooth Controlled Radio Receiver User Manual

Contents

CDVI SEL2641R433-RCV Bluetooth Controlled Radio

Product Information

The RX CUBE POWER is a Bluetooth controlled radio receiver. It is designed to be used with a device that provides a safety extra low voltage (SELV) type LPS (Low Power Source) and can operate at a voltage of 230V. The receiver is equipped with a bi-color LED that indicates the power status, Bluetooth communication status, and relay activation. It also has a fuse for protection.

Technical Specifications

- Dimensions: 44 x 50.5 mm
- Maximum current drawn by the receiver: 90 mA @ 12Vdc
- Bluetooth range: 10 – 30 meters
- Default password values: 11111 for Administrators, 00000 for Installers

Warnings

To ensure optimal operation of the system, it is important to place the receiver far from interference sources such as big magnetic fields or radio emissions. The distance between two receivers should be at least 1.5 meters. The receiver must be powered from a device that provides SELV type LPS. A suitable disconnecting device must be used to handle the current drawn by the receiver.

Product Usage Instructions

App RxCube Setup
To configure the receiver, you need to use the App RxCube.

Follow these steps:

1. Download and install the App RxCube.
2. Authorize the App to use Bluetooth communication.
3. Authorize GPS localization for full Bluetooth BLE operation.
4. Create your account and verify it via email.

Connecting to the Receiver

To connect to the receiver and configure it, follow these steps:

1. Open the App RxCube.
2. Press the scan button to search for available receivers.
3. Select the desired receiver from the list.

Receiver Management

Once successfully connected to the receiver, you can manage its functionalities using the App RxCube. The home page of the App provides the following sections:

- **Memory Situation:** Shows the number of stored phones and transmitters.
- **Transmitters:** Allows addition, removal, or modification of individual transmitters or transmitter blocks. You can assign a name (ID) to each transmitter for identification.
- **Smartphones:** Manages the smartphone memory.
  You can add, delete, enable, or modify smartphones. Each smartphone is defined by a unique code (UserCode) and a UserName.
- **Test:** Provides a relay activation test and allows reading information from a transmitter.
- **Settings:** Allows setting relay mode, changing passwords, and modifying the receiver name. Provides technical data and information about the receiver CUBE.
- **Backup:** Enables creation of backup copies of the memory and uploading them to the same or another CUBE receiver.

Note: It is recommended to change the default passwords since the first access to the device. The device name can have up to 12 characters.

Introduction

Fig.1

RX CUBE POWER – Bluetooth controlled radio receiver

The receiver ERONE “Cube 230” is a superheterodyne radio receiver operating at 433,92 MHz in AM/ASK demodulation.
It is compatible with the full range of remote controls Erone that use the Keeloq® Hopping code security protocol.
This receiver can be programmed only via Bluetooth using set-up and control that can be done only using the app

: “RxCube” on a Smartphone (iOS or Android).
Power supply 100-240Vac / 50-60 Hz autodetect. High power output contacts The equipment is manufactured in compliance with the provisions of European Directive 2014/30/EU, 2014/35/EU, 2014/53/EU and the provisions of the standard EN 62368-1.

Part-name	F-code	Description
SEL2641R433-RCV	F1001000107	RECEIVER CUBE 230V

Technical Specifications

- Receiver type……..Superheterodyne
- Operating frequency ……433,92 MHz – AM/ASK
- Input sensitivity ……..-103 dBm
- Input load: …….50 Ohm
- Power supply: …….100 – 240 Vac / 50-60 Hz
- Consumption max:……16 mA @230 Vac
- Peak consumption…….20 mA at power up
- Max switching power: …….C-NO: 16A@ 250 Vac 10 A@ 30Vdc
- Relay number: ……1
- Operating modes: …….Pulse / Latch / Timed
- Release time (Timed mode): ……..from 1s to 23h : 59m : 59s
- Contacts: ……..C-NO
- Memory capacity: ……..250 TX codes, 100 Smartphones
- TX security code:……KeeLoq® Hopping code
- Smartphones security code:…….AES128
- Max code combination number: ……264
- Operating temperature: …….-30°/+70°C
- Housing protection: …….IP2X
- Overall dimensions: …….44 x 58 x 25 mm
- Communication w/mobile phone:….Bluetooth
- Standard:……BLE 4.2
- IO : Compatibility:……..Android,iOS
- Release Android: ……..6.0 and next
- Release iOS:……13 and next

Dimensions

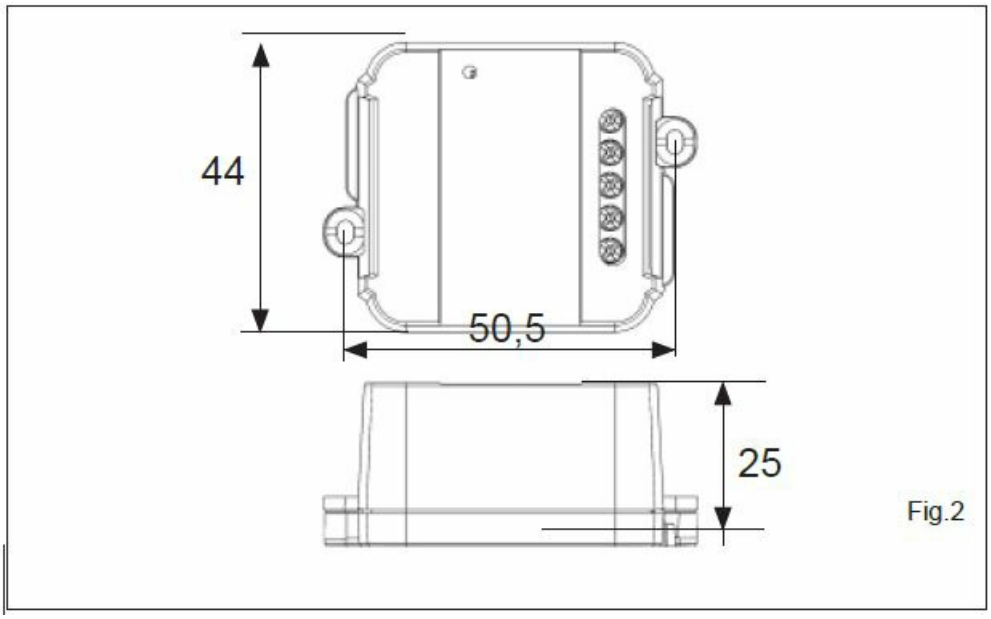


Fig.2

Warnings

The receiver allocation is very important for the best operation of the system. Place the receiver far from interference sources such as big magnetic fields or radio emissions.The distance between 2 receivers must be at least 1,5 m.

- The equipment must be powered from a device that provides a safety extra low voltage (SELV) type LPS (Low Power Source);
- There must be a suitable disconnecting device to the current drawn by the receiver (90 mA max @ 12Vdc).

Wiring

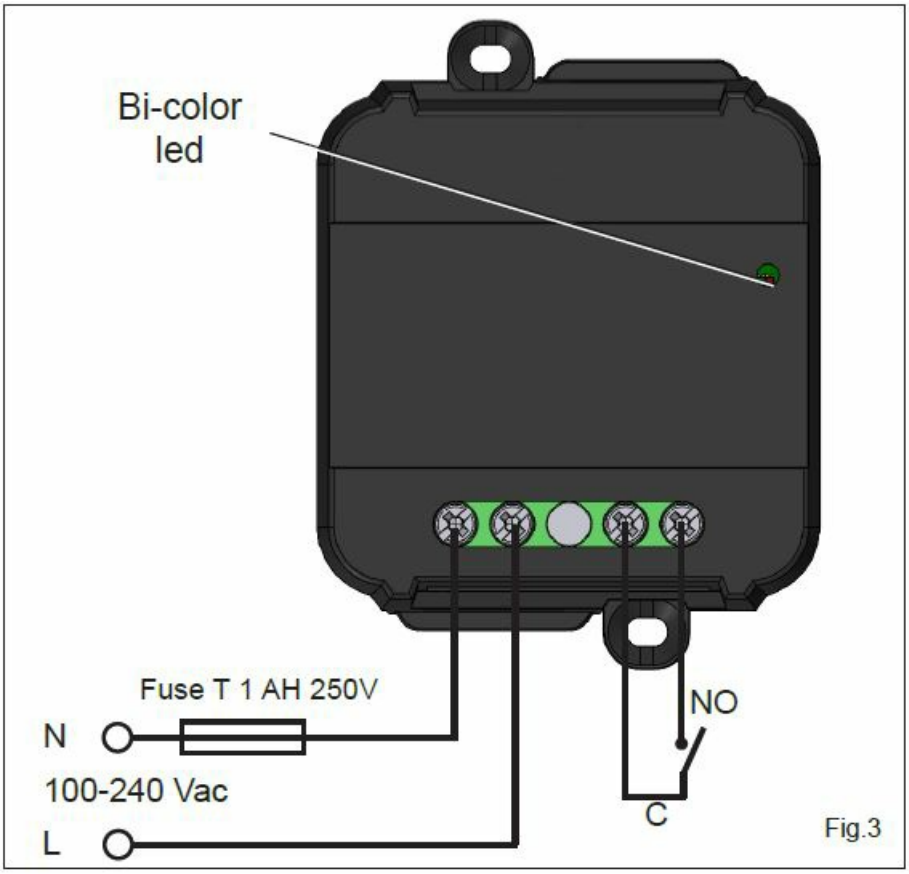


Fig.3

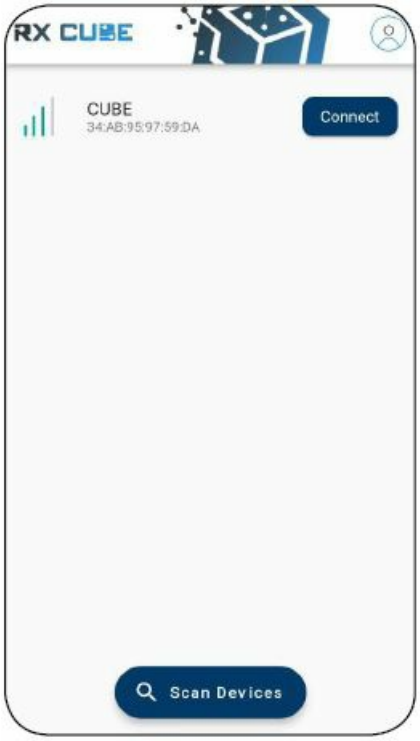
Legenda LED

Color LED	**Description**
Green	Power ON NO Bluetooth communication
Green-Orange blinking	Bluetooth communication in progress
Orange	Relay excited

The App "RxCube"

The setup of the receiver can be done only through the App "RxCube". Once downloaded, authorize the App to use the Bluetooth communication. The App will ask even the GPS localization: please authorize it for the full operating of the Bluetooth BLE.

- On the very first access you have to create your account. Once your profile is verificated via email, you can start using the app.



- Press the scan button and connect to the receiver to configure it.The range of the scanning is limitated by the Bluetooth technology (10 — 30 m).
  Much depends by the fixing position of the receiver and whether the communication is direct or passes through walls.

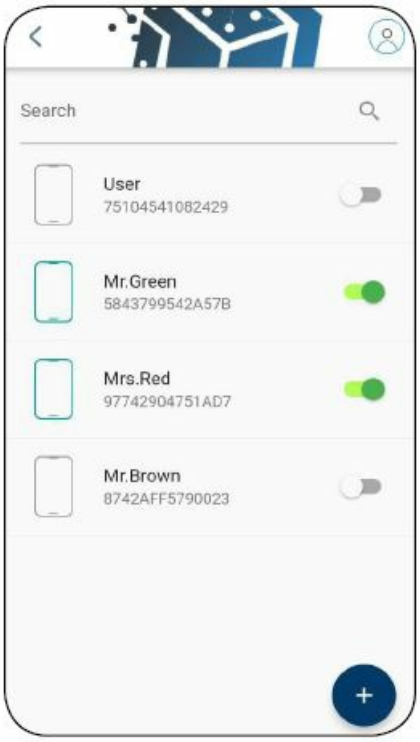
The receiver, by factory, comes with the name “CUBE” and default password values (11111 for Administrators, 00000 for Installers). It is highly reccomanded to change the passwords since the first access to the device.
The name of the device can have up to 12 characters.

Home Page

Once successfully connected to the receiver, the app will open to the device's home page.
From now on, it is possible to manage the receiver and its functionalities.

HOME
In the device home page, you can see the memory situation: how many phones and how many transmitters are stored.

SMARTPHONES
Section dedicated to the management of the smartphone memory. Add i ti on ,re moval , enable or modification the smartphones.
Each smartphone is defined by a unique code (UserCode) and a UserName.



TEST
Area dedicated to the testing of relay and TX:

- Test Relay:

  Verification of the correct activation
- Read TX:

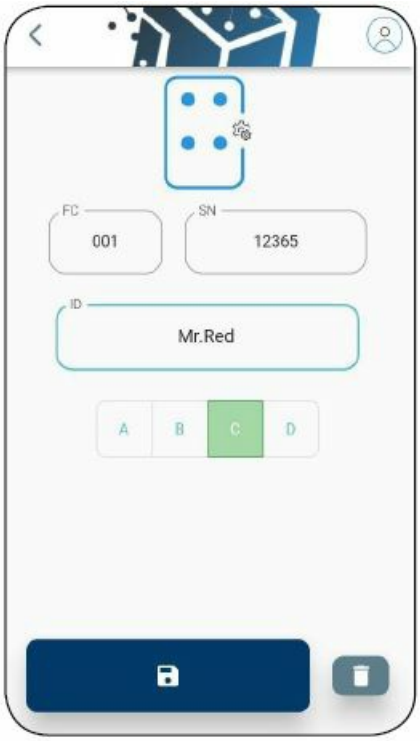
  To get all the information of a TX, hold one of its buttons.

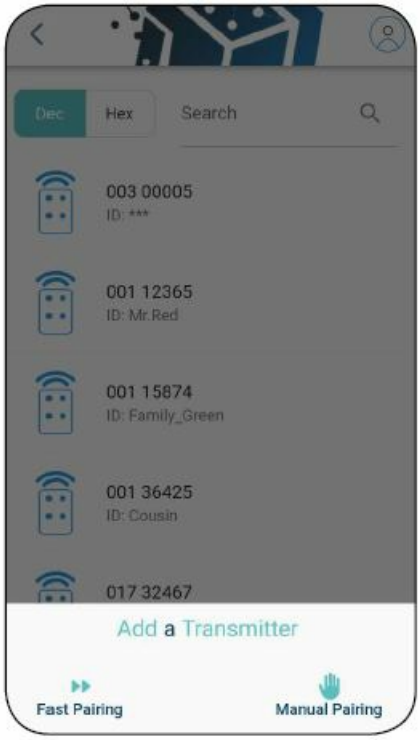
TRANSMITTERS
Section dedicated to the management of the transmitter memory. Addition, removal or modification of the single transmitter or the block. You can also attribuite a name (“ID”) to each TX to understand who it belongs to.

SETTINGS
Area for setting relay mode, passwords and receiver name. Technical data and information regarding the receiver CUBE.

BACKUP
Creation of backup copies of the memory.
Upload the created backup to the same or to another CUBE receiver.

Transmitters management





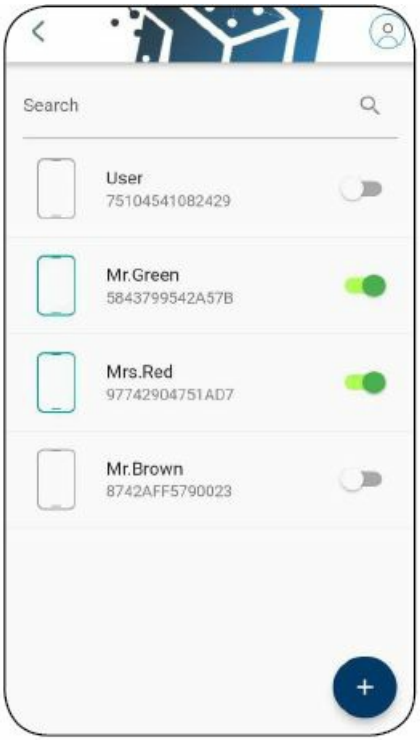
Add, delete or change the transmitter parameters (ID or buttons choice).
Two ways to add one or more transmitters:

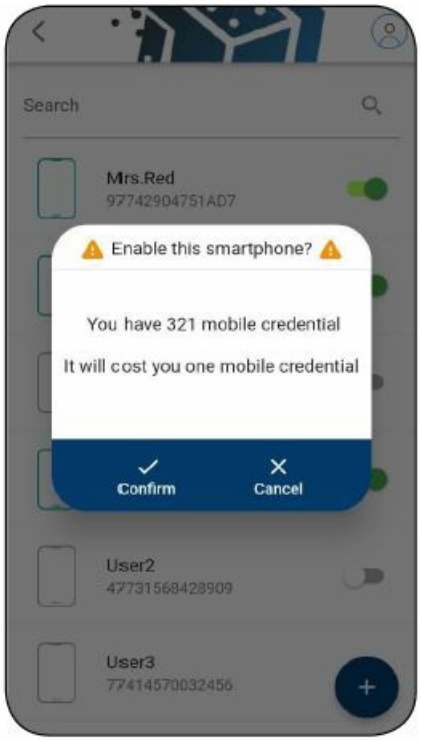
- Fast Pairing:

  Receiver will be setted in “listening mode” and will memorize all the buttons that are pressed.
- Manual Pairing:

  Manual entry of Facility Code, Serial Number (in hexadecimal or decimal) ID and buttons.

Smartphones management



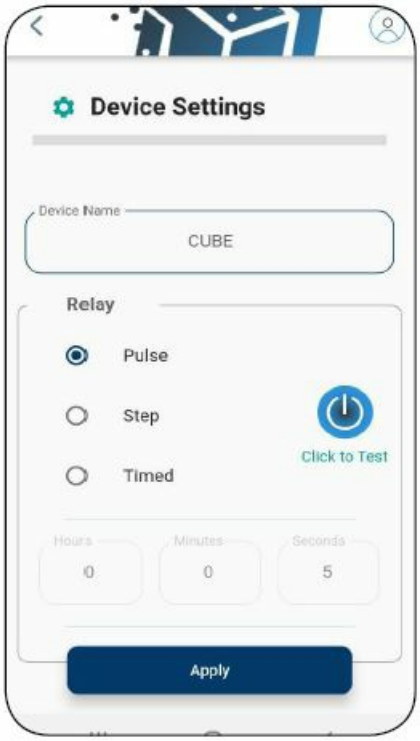


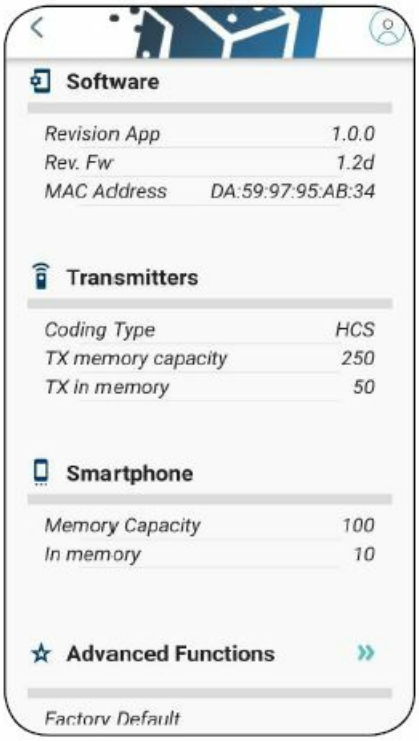
See the list of stored Smartphones. With a search bar you can filter them or search for a specific one. Add, delete or change the smartphone parameter (UserName).

Enable a smartphone for the relay activation (with UserCube APP) consuming one mobile credential.

Note: Disabling a smartphone will give back one mobile credential.

Device Settings





Set or change the name of the receiver. Set the relay operating mode: PULSE, LATCH, TIMED. In Timed mode, it is possible to set the relay release time from 1 sec. to 23h : 59m : 59s. Collection of all the information regarding the receiver (passwords, software version, coding type etc..)

Test

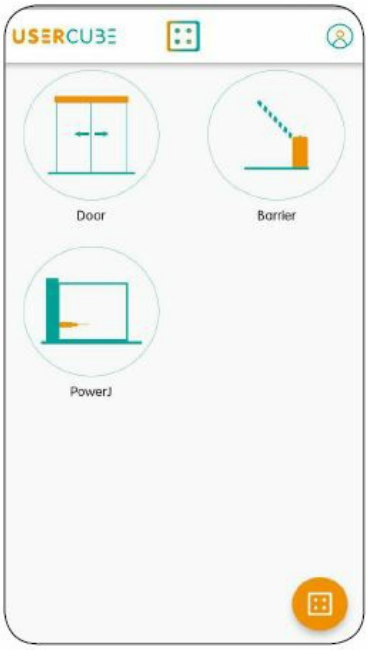
Direct activation of the relay for testing it.
Display of the transmitter Serial Number

Backup

Warning: the upload of the backup will overwrite the ac-tual memory of the receiver.

The App “UserCube”

App for final Users. It allows the activation ot the receiver relay from the smartphone.
UserCube transforms the user’s smartphone in a Bluetooth remote control, with its own Serial Number (called UserCode) and an ID (UserName).



The User sends his own UserCode to the installer. The Installer memorizes and enables it (consuming a mobile credential). The User, than, has just to connect to the receiver, the app will do the rest. If the Smartphone is memorized and correctly enabled, it will be created a button. The User can personalize it changing the icon or the name.

Mobile Credentials Cards

Mobile Credentials are the virtual token that installer uses to enable smartphones. They can be acquired by NFC Card directly with the app RxCube

Part-name	F-code	Description
CMC5	F1002000138	NFC MOBILE CARD FOR RX CUBE – 5 LICENCES
CMC10	F1002000139	NFC MOBILE CARD FOR RX CUBE – 10 LICENCES
CMC25	F1002000140	NFC MOBILE CARD FOR RX CUBE – 25 LICENCES

Disposal
This product is made up of various types of material, therefore, as indicated by the symbol in the figure, the product must not be disposed of in with the household waste. Dispose in accordance with local current regulations.

Guarantee
The warranty period for this product is 60 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at our discretion. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the factory.

Manufactured by : CDVI WIreless SPA – Via Piave, 23 31020 S.Pietro di Feletto (TV) – Italy
Tel : +39-0438-450960 – Fax : +39-0438-455628 web: **www.erone.com** –
email: **info@erone.com**

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[CANADA – USA – LATIN AMERICA] **www.cdvi.ca**
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CDVI WIRELESS
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www.erone.com
Manufactured by : CDVI Wireless SPA
Via Piave, 23 – 31020 S.Pietro di Feletto (TV) – Italy
tel: +39-0438-450860 – mail: info@erone.com – web:www.erone.com

All the information contained within this document (pictures, drawing,features, specifications and dimensions) could be perceptibly different and can be changed without prior notice. Reference manual: CDVI_CUBEP_IM_01_EN_A4_CMYK.pdf – Printed in Italy – Apr 2023

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Documents / Resources

	CDVI SEL2641R433-RCV Bluetooth Controlled Radio Receiver [pdf] User Manual SEL2641R433-RCV Bluetooth Controlled Radio Receiver, SEL2641R433-RCV, Bluetooth Controlled Radio Receiver, Controlled Radio Receiver, Radio Receiver, Receiver

References

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- Access Control Solutions Manufacturer - CDVI UK
- cdvi.com
- CDVI Polska - Systemy Kontroli Dostępu, Elektrozaczepy, Czytniki | Security To Access
- Controllo Accessi e Sistemi di Sicurezza | CDVI Italia
- cdvi.ma
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