

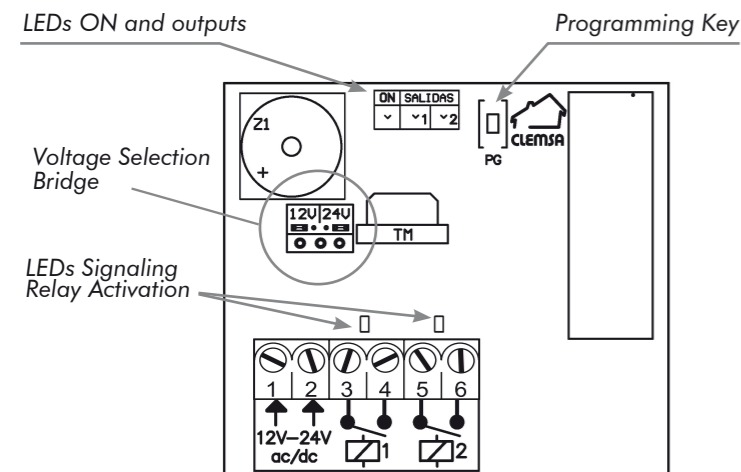
# UNIVERSAL MUTAN-II RECEIVER CLEMSA

## MODELS RNE 248 U LR / RNE 248 U LR LP RNE 248 U 20 / RNE 248 U 20 LP

**RNE 248 U LR / RNE 248 U LR LP:** MUTAN II universal Receiver with long-range LR radio technology. Compatible with MUTAN II LR emitters. (LP low profile version)

**RNE 248 U 20 / RNE 248 U 20 LP:** Universal Receiver MUTAN II system with 434 and 868 MHz multi-frequency radio technology. Compatible with MUTAN II and MUTANcode Transmitters. (LP low profile version).

### LOCATING PRINCIPAL COMPONENTS



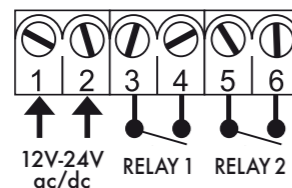
### CONNECTION\*

**1-2:** Power supply from 12 to 24V ac/dc according to voltage selection bridge.

**3-4:** RL1 output, normally connect to the Control panel push button input.

**5-6:** RL2 output, normally connect to the Control panel push button input.

\* LP models have fixed bass clemas profile, the others have a plug-in power strip.



### 1.-DESCRIPTION

The MUTAN II family of Receivers and Transmitters is the next step in the evolution of the popular and successful MUTANcode family of products. The new family represents a great generational leap with respect to the market standard with far superior capabilities in range, copy security and ease of installation.

Some of its innovative features are:

- Long-range LR radio system immune to interference (RNE 248 U LR and RNE 248 U LR LP Versions).
- Simultaneous reception on 434 and 868 MHz or selection of the working frequency (RNE 248 U 20 and RNE 248 U 20 LP versions).
- Encrypted transmission reinforced with a unique Installation Key for each garage.
- Anti-clone system to prevent copying.
- Removable memory for 400 users for easy management of codes and options by programmer.
- Direct, Supervised or Push-Button Issuer Registration.
- Backwards compatibility with classic MUTANcode emitters.

The RNE 248 U Receiver is factory-configured to be compatible (\*) with the classic MUTANcode system and with existing classic programmers. If you want it to work in MUTAN II mode, with the important advantages that this entails, you must enter an Installation Key using one of the available MUTAN II programmers.

(\*) LR radio Receivers only work with LR Transmitters.

### 2.-INSTALLATION

Avoid installing the Receiver near metal pipes and cables, and be careful not to install it in areas of radio shadow.

Do not install the Receiver at a distance of less than 10 meters from non-approved regenerative Receivers; These Receivers generate interference that could affect the proper functioning of the installation.

Fix the Receiver in an elevated area, avoiding metal surfaces between the Transmitter and Receiver as much as possible. Connect the cables according to the wiring diagram.

Make the connections to the control panel without power supply and choose the operating voltage between 12Vac/dc or 24Vac/dc before connecting the Receiver with the jumper provided for this purpose.

### 3.-CODE MANAGEMENT

It is recommended to manage the additions and cancellations of the Transmitters in the Receiver using a compatible MUTAN II programmer, directly on the TM 400 removable memory.

Alternatively, there are 3 manual methods of programming Transmitters on the Receiver:

- By Programming Key.
- Supervised Registration via radio (if enabled).
- Direct Registration (if enabled. Only in MUTAN II mode).

### Programming of Transmitters by Programming Key

**1.-** Press the programming key and you will hear 2 short beeps. It's already in programming or learning mode. (Fig. 1)

**2.-** Once in programming, you can register the desired Transmitters by pressing any channel of each Transmitter; A short beep will sound for each programmed Transmitter. (Fig. 3)

**ATTENTION,** to register the first Transmitter of the memory, you have to press it twice in succession, until you hear the Receiver beep.

**3.-** To exit programming you can do the following: (Fig. 4)

-Wait 30 seconds for the Receiver to come out of programming on its own.

- Press the programming key on the Receiver.

- Tap a channel of any of the Transmitters that are already registered, except for the last one that has been programmed.

The Receiver indicates that it has exited programming by means of 3 short beeps.

### Programming of Supervised Discharge Broadcasters via Radio

If radio programming is enabled (see section 4.3), you can enter programming if you already have a Transmitter "working" on the Receiver.

**1.-** Press the 1 and 2 keys simultaneously if the Transmitter is an NT or NT S. If it is a classic model, you have to press the programming button that is hidden under the battery cover.

The Receiver will enter programming or learning by indicating it with 2 short beeps. (Fig. 2)

**2 and 3.-** The rest of the steps to program Transmitters and exit programming are the same as if the Receiver's Programming Key is used.

### Programming of issuers by Direct Registration

If the Direct Registration programming mode is enabled, pressing any button on a Transmitter near the Receiver will automatically register it as long as the Customization and the Installation Key match. For each Transmitter that is programmed, a short beep will sound.

### Possible Scheduling Issues

If you hear 3 short beeps when trying to program a Transmitter, it means that the Receiver has exited Programming, since the sender was already programmed previously.

If when trying to program a Transmitter, no beep sounds, the Customization or Installation Key of the sender does not correspond to those of the Receiver.

If 5 beeps sound when trying to program a Transmitter, it means that the Receiver's memory is full and that Transmitter has not been programmed.

### 4.-OPERATION

Once the Transmitters have been programmed into the Receiver, pressing a channel will activate the outputs of the corresponding Receiver.

**ATTENTION,** once in operation, in MUTAN II mode, with Installation Key, the TM 400 Memory Card is associated with the Receiver and encrypted for security.

**It is not possible to change the Card directly to another Receiver, this would cause a malfunction.**

In order to reuse an encrypted and in-use TM 400 Card, it must be re-recorded with a MUTAN II programmer and can only be inserted into a completely new Receiver.

### 4.1.-Replacement of the issuer

With a replacement Transmitter previously recorded with a programmer, the user will automatically register the new Transmitter by pressing a couple of times in the vicinity of the Receiver, leaving the old Transmitter deactivated.

### 4.2.-Configuration of outputs on the Receiver

By default, Receivers are configured so that Output 1 is activated when receiving Channel 1, and Output 2 when receiving Channel 2, but there are certain circumstances in which it is necessary to change this setting.

We can change the configuration through a compatible programmer or manually, for which we will proceed as follows:

With the Receiver plugged in and working, remove the TM 400 Memory Card (Fig. 5) and press the Receiver programming key (Fig. 6). 3 beeps will sound and the LED corresponding to Output 1 will be illuminated. If we want to change the channel associated with that output, we will press the desired channel on a Transmitter in the installation (Fig. 7) (the Receiver will beep when accepting the new channel), if we do not want to change that output we simply press the programming key of the Receiver and go to Output 2 of the Receiver. After setting Output 2 and pressing the programming key on the Receiver (Fig. 8), the Receiver will exit channel programming mode, sound three long beeps, and then beep until the TM 400 Card is inserted again (Fig. 9). The outputs are already configured, you can change these settings at any time.

### 4.3.-Enable Supervised Registration via radio

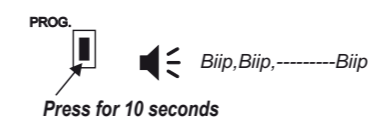
If you want to change the type of registration to Supervised or Direct, you can use the scheduler, or you can manually enable the Supervised Registration mode by proceeding as follows:

With the Receiver plugged in and working, remove the TM 400 Memory Card (Fig. 5) and press the Receiver programming key (Fig. 6). 3 beeps will sound and the LED corresponding to Output 1 (Fig. 6) will be illuminated. Now, depending on the Transmitter model, we will press the programming key of the Transmitter or the 1 and 2 keys simultaneously. The Transmitter must already be registered in the Receiver, a short beep and a long beep will be heard (Fig. 10), indicating that the Supervised Discharge mode has been activated. Successively press the programming key on the Receiver until it comes out of this mode (Fig. 8) and insert the TM 400 Card again (Fig. 9).

To disable the Supervised Discharge mode, we will proceed in the same way, in this case two short beeps and one long beep will be heard.

### 4.4.-Deletion of issuers

To erase all users from your Receiver press the programming key of the Receiver and hold it for 10 seconds, you will hear 6 beeps indicating that the memory has been erased.



If you only want to delete a specific user, you will need to use one of the supported programmers.

### 4.5.-Anticlon System

When the Receiver detects that there are 2 senders with the same code working in the installation, it puts them in a "Reserve" state on the Memory Card, so they will stop working. To get this Transmitter working again, you must put it in the "Active" state by editing the TM 400 Card with one of the compatible programmers.

To avoid problems, it is advisable to leave this code in "Reserve" and change the code to the original sender for a new one by registering it in the Receiver.

### 5.-OPTIONAL ACCESSORIES

- PT programmers.

### SPECIFICATIONS

MODEL	RNE 248 U 20 / 20LP(*)	RNE 248 U LR / LR LP(*)
POWER SUPPLY	12-24 Vac/dc	12-24 Vac/dc
CONSUMPTION	60mA	60mA
FREQUENCY	433.92 / 868.35 Mhz	868.35 Mhz
Nº USERS	400	400
Nº OUTPUTS (RELAYS)	2	2
RELAY CONTACTS	1A.	1A.
TEMPERATURE FUNC.	-20 to +70°C	-20 to +70°C
DIMENSIONS	60x54x25mm.	60x54x25mm.

(\*) The LP models differ only in that the clemas are fixed.

### QUICK PROGRAMMING GUIDE

#### PROGRAMMING SEQUENCE

### DECLARATION OF CONFORMITY

CLEMSA, S.A.U. hereby declares that the radio equipment type RNE 248 U is in accordance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at: <https://www.clema.es/wp-content/uploads/2014/01/RNE248U20-CE.pdf> and <https://www.clema.es/wp-content/uploads/2014/01/RNE248ULR-CE.pdf>



### PRODUCT DISPOSAL

Once the product has been disassembled, dispose of it responsibly, respecting the regulations in force regarding the disposal of materials. Building components and materials, as well as batteries and electronic components, should not be disposed of with household waste, but should be handed over to authorized disposal and recycling centers.

In the event that the equipment has batteries, before depositing this equipment in the authorized collection facilities for disposal and recycling, they must be removed and deposited separately for proper management.

DISPOSE OF PACKING MATERIAL:  
The various packaging materials (plastic, polystyrene, etc.) should not be left within the reach of children, as they are potential sources of danger.  
At the end of use, dispose of the packaging in appropriate containers in accordance with waste disposal regulations.

### HEADQUARTERS & DELEGATIONS

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