

1 Introduction

This RADIUM receiver WR2LCD (Fig. 1) employs rolling-code technology - a special algorithm keeps the remote(s) and receiver synchronised and secure. This receiver has 2 relay outputs, each having dry contacts.

Programming of remotes can be carried out either directly on the receiver using the 2 push buttons, or remotely using the buttons of the remote.

General parameters of the receiver (relay time etc) can only be done using the 2 push buttons of the receiver.

All programming steps are displayed on the backlit LCD display.

The data can be saved/restored to/from an external memory device.

2 RELAY RECEIVER WR2LCD

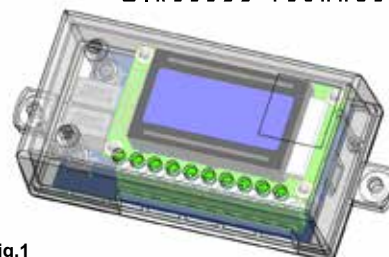


Fig.1

2 Technical Specifications

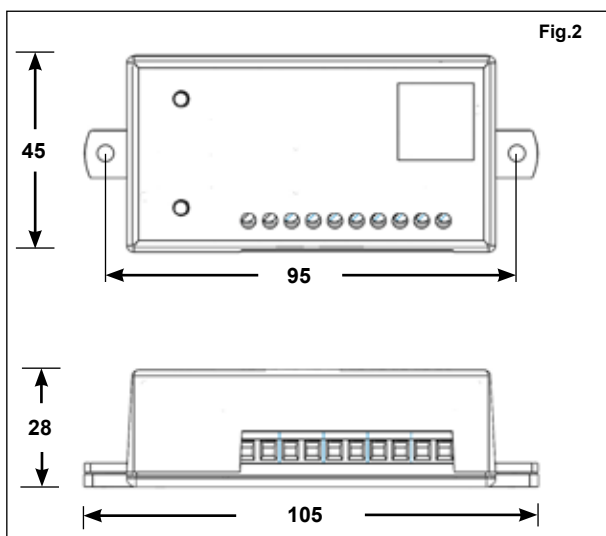
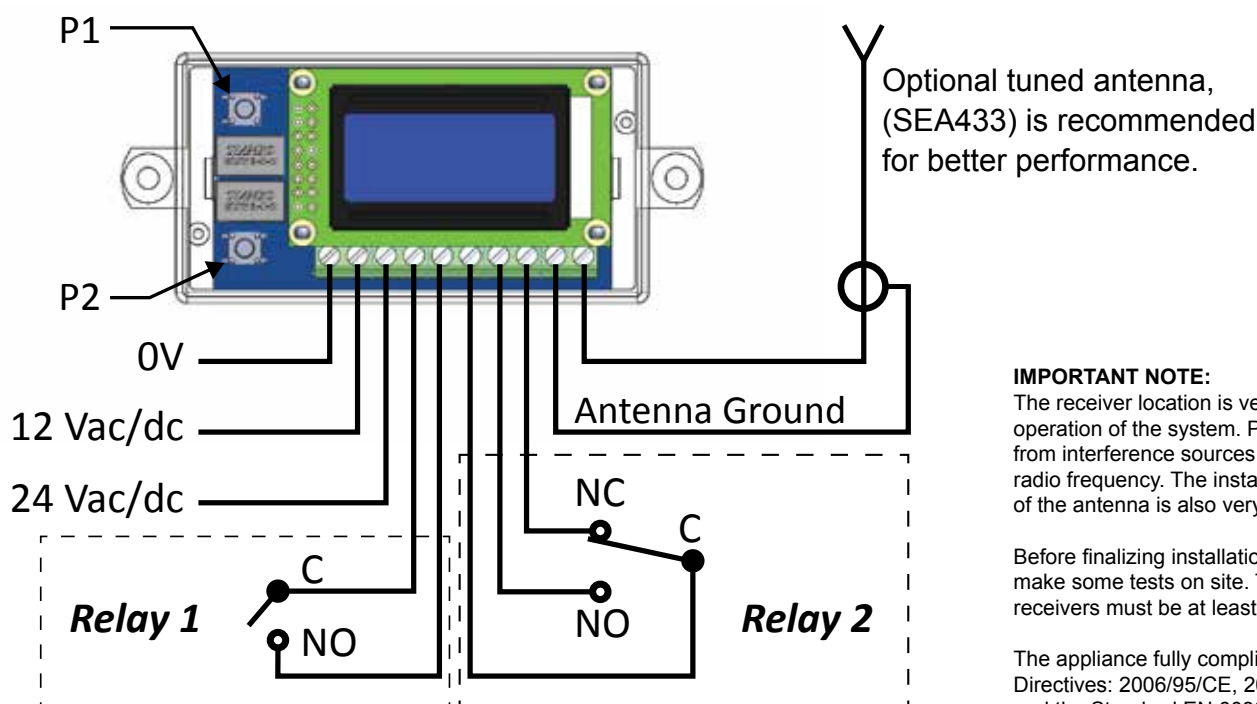


Fig.2

Receiver type:	Superheterodyne.
Operating frequency:	433.92 Mhz.
Sensitivity :	-115 dBm.
Input load:	50 Ohm.
Power supply :	12 o 24 V ac/dc.
Current consumption (@12Vdc):	from 25 mA to 90 mA (max)
N° of relays:	2 (1 x NO and 1 x NO / NC).
Max power on relay output:	24VA max 60V .
Memory capacity:	100 remotes
Security protocol:	Keeloq® Hopping code
Operating temperature:	-20 to + 70 °C (-4 to 158 °F)
Dimensions (Fig. 2):	105 x 45 x 28 mm (4.1 x 1.77 x 1.1 inches).
Weight:	65 g
Relay operating mode:	Pulse, latched or timed
Delay:	from 1 sec. to 24:59 (HH:MM)

3 Wiring



IMPORTANT NOTE:

The receiver location is very important for the best operation of the system. Place the receiver away from interference sources such as magnetic fields or radio frequency. The installation and the positioning of the antenna is also very important.

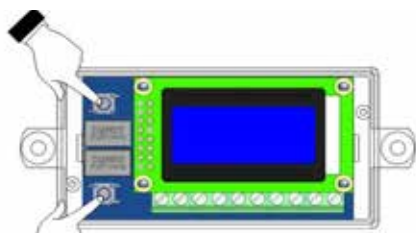
Before finalizing installation, it's preferable to make some tests on site. The distance between 2 receivers must be at least 1.5 metres (5 feet).

The appliance fully complies with the European Directives: 2006/95/CE, 2004/108/CE, 99/05/CE and the Standard EN 60335-1.

4 Display Legend

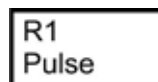
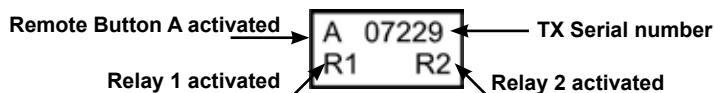
P1:

Use to enter in programming mode(hold P1 for 4 seconds) and to confirm selected option

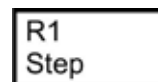


P2:

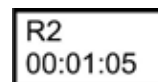
Use to navigate through the menu



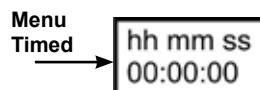
Relay 1 : Pulse



Relay 1 : Step



Relay 2 : Timed



The factory default for the relay time is 1 second. Use P2 to scroll the digits and P1 to confirm.

5 Display Menu

WR2LCD
Radium

Default Menu

To enter in programming mode press P1 during 4 sec.

Once in programming mode, P1 is use to select a menu and P2 is use to scroll the menu.

→ Memo
↓

Memo: Use to enroll remote buttons on relay 1 or 2

→ Delete
↓

Delete TX : Delete a remote

Delete Button : Delete the button of a remote

Delete by List : Delete a remote from a list

Delete All TX : Delete all remotes

Delete setting : Reset to factory default

→ Info
↓

Info relays : Display relays operating mode

Info N. Tx : Display number of memorized remotes

Info List : List of remotes

Info Version : SW release.

→ Config
↓

Config relay 1 :

- Pulse (**Default**)

- Step

- Timed

Config relay 2 :

- Pulse (**Default**)

- Step

- Timed

→ Backup
↓

Backup to : Data backup to an external memory

Restore from : Data restore from an external memory

→ Plus
↓

Plus ON (Default) : Enable hands free enrollment from any memorized remote.

Plus Limited : Enable hands free enrollment using a «Master» remote **ONLY** (first remote stored)

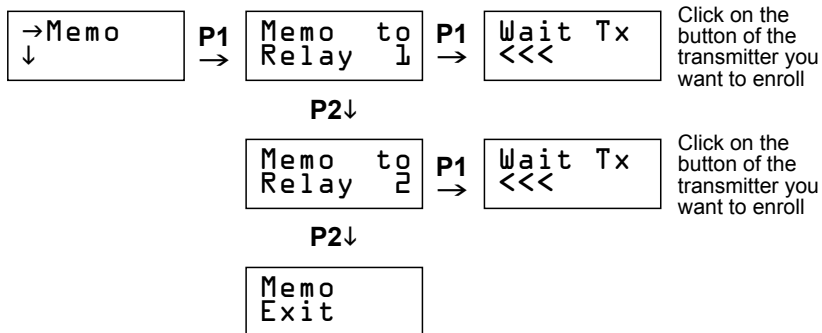
Plus OFF : Disable remote enrollment

→ Exit
↓

Exit: When selected, will exit from programming mode.

6 HOW TO ENROLL REMOTE

1. Press P1 during 4 sec. to enter in programming mode. Using P2, scroll until the "Memo" menu, then press P1 to select.
2. Using P2, scroll to select relay (1 or 2) the remote button will be assigned, then press P1 to select.
3. Press on the chosen remote button.

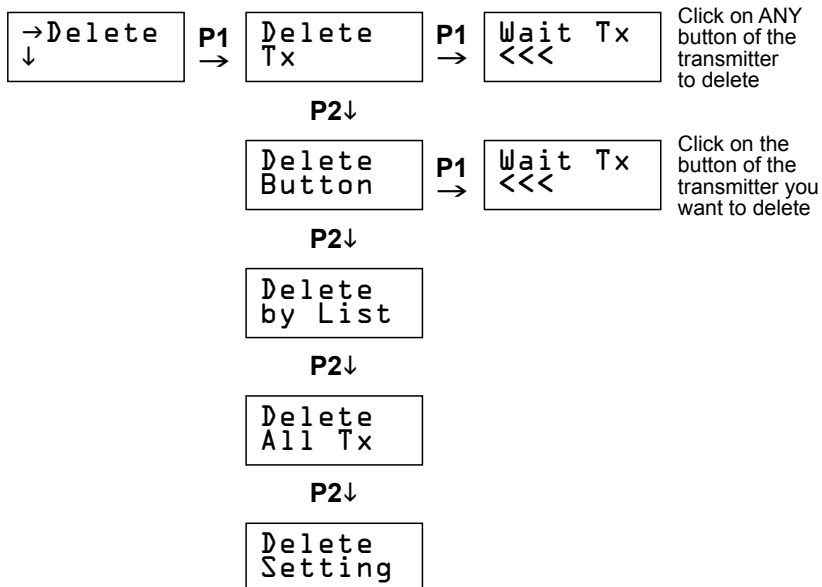


7 HOW TO DELETE REMOTE

1. Press P1 during 4 sec. to enter in programming mode. Using P2, scroll until "Delete" appears, then press P1 to select.
2. Using P2, scroll to the required "Delete" mode, see below, then press P1 to select.

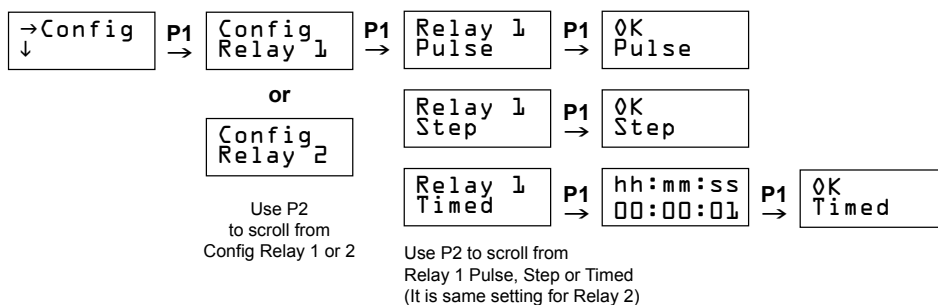
Delete TX : Delete a remote
Delete Button : Delete the button of a remote
Delete by List : Delete a remote from a list
Delete All TX : Delete all remotes
Delete setting : Reset to factory default

3. Follow the instruction on the screen.

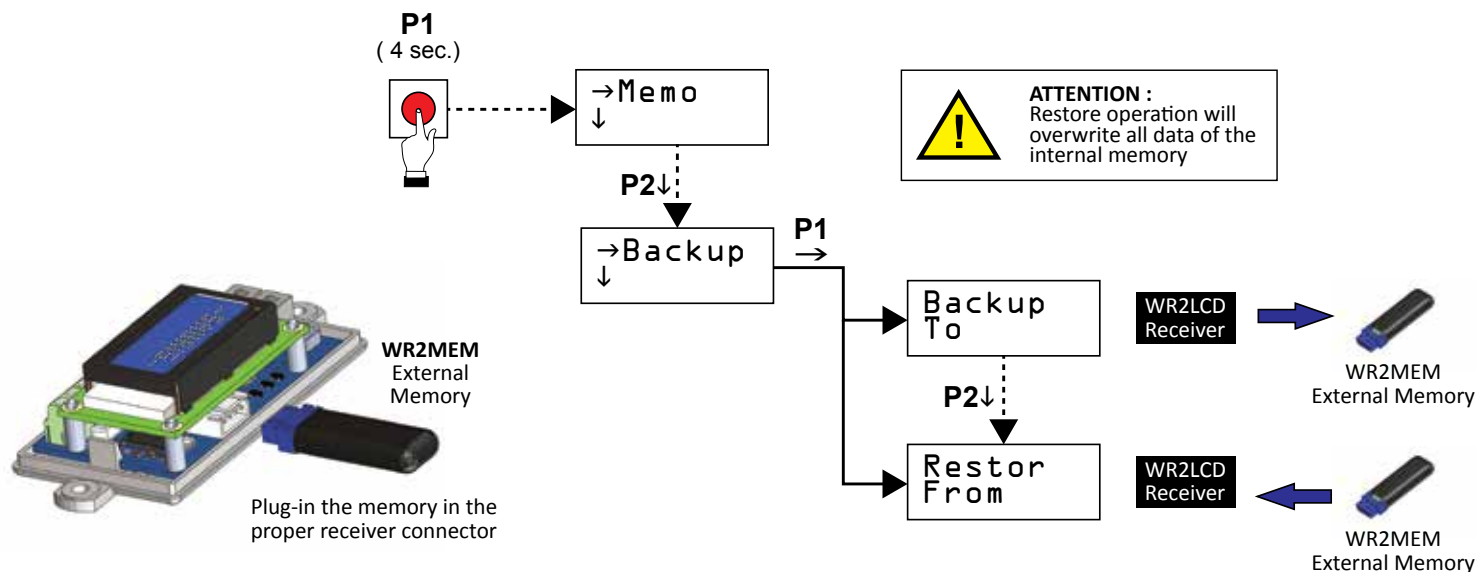


8 HOW TO CONFIGURE THE RELAYS

1. Press P1 during 4 sec. to enter in programming mode. Using P2, scroll until the "Config" menu, then press P1 to select.
2. Using P2, scroll to "Config Relay 1" or "Config Relay 2", then press P1 to select.
3. Using P2, scroll to the desire relay configuration (pulse, step or timed), then press P1 to select.



9 Backup / Restore



10 Compatible Remotes and More Receiver



Remotes Features:

- Range up to 250 m (820 ft)
- One 12V lithium battery
- These remotes are available with integrated CDVI or HID tags.

R1

1-Button Remote



R2

2-Button Remote



R4

4-Button Remote



WR4

4-Relay Wireless Receiver



- 2 N.O. + 2 N.O./N.C. relay

WRW

Wiegand Wireless Receiver



- 26-bit Wiegand output
- Power: 12 or 24 V (AC or DC)

WRAP

ATRIUM Plug-in Wiegand Receiver



- Connect directly to ATRIUM Wiegand port

WARRANTY

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.

