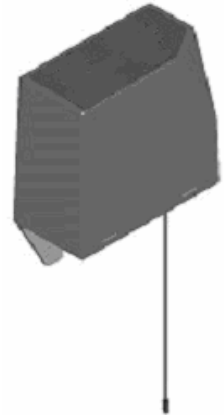


## 1. GENERAL INFORMATION

These receivers integrate the functions of standard Multipass code receivers and decoders. They feature a storage capacity of up to 200 different codes generated by transmitters of the Multipass family at 40,685 Mhz.  
Intended use of the equipment: radio receiver in garage-door systems.

## 2. TECHNICAL FEATURES

Power supply	12 - 24 Vac/dc
Average consumption	stand-by: 20 mA with relay energized: 45 mA
Reception frequency	40,685 Mhz
Digital Code	with a number of bits varying from 40 to 54
Number of storable codes	200
Number of channels	2
Type of output	monostable, bistable
Output	Relay
Contact rating	0,5 A @ 24 Vac/dc
Signals	red LED
Working temperature range	-20/+55 °C
Storage temperature	-40/+85 °C
Receiver weight	250 g.
Receiver dimensions	77 x 80 x 38 mm



## 3. VOLTAGE SELECTION

The **MRA2** receiver can operate at 12/24 Vac/dc.

## 4. CODE PROGRAMMING AND DELETION

Entry and storage of a new code and deletion of the full code list can be made by acting on key **P1**, while deletion of single user codes can be made using the **GTSYSTEM** portable terminal.  
 To access the of programming / erasing pushbutton you have to remove the plastic cover as shown in figure 1.

### How to Program

- Power the receiver as specified.
- Press **P1**. The red LED lights up indicating that programming is in progress.
- Press any of the transmitter's keys to make a transmission.
- The code will now be entered in the memory. While loading is in progress, LED will flash. Upon code being stored, the LED stops flashing and becomes fixed. A new code can now be entered.
- Load the codes of all the transmitters by making a transmission with each of them.
- Upon this operation being completed, press **P1** again to exit from programming mode. The LED will go off. In any case, the system will automatically exit from programming mode upon 10 seconds having elapsed since last loading.

**Note: Codes remain stored even if receiver is powered off.**

**Attention:** Make a transmission within 10 seconds after pressing **P1** as system will automatically exit from programming mode after this time has elapsed if no transmission has been made.

To re-access programming mode, press **P1** again.

### Deletion of all codes

- Press and hold down key **P1** until the red LED starts flashing.
- Press **P1** again within 6 seconds to confirm deletion. Confirmation is signalled by the LED flashing more rapidly.

## 6. CHANNEL SELECTION AND RELAY OPERATING MODE

Set output as desired by means of jumper A (fig. 2. Jumper A closed for monostable relay operation and jumper A open for bistable relay operation). Set jumpers D to select the channel of the transmitters which activates the 2 outputs (see fig. 2).

## 7. ANTENNA CONNECTION

The receivers may be connected to external antennas by means of the appropriate F-type female connectors.

In particular, the **MRA2** receivers can be connected to **ANTFK4** and **ANT40,6** type antennas or the like.

### DECLARATION OF CONFORMITY

Prastel S.p.A. declares that the following equipment **RECEIVER MRA2** IS IN ACCORDANCE with the 99/05/EC (R&TTE) directive

The complete declaration of conformity is available in Prastel.