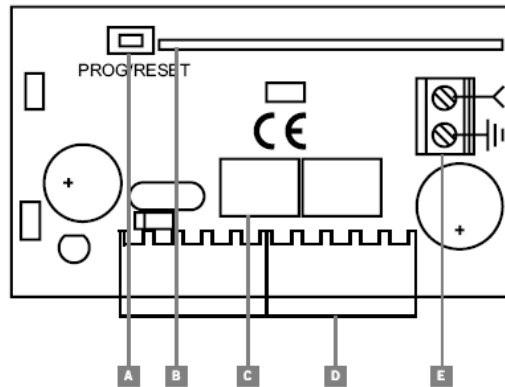


COD. 1222059 / 1.2

**NOVOBOX**

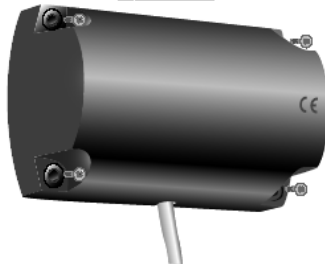


DESCRIPCIÓN PLACA BASE  
DESCRIPTION DE LA PLAQUE DE BASE  
BASE PLATE DESCRIPTION  
BESCHREIBUNG DER GRUNDPLETTE  
DESCRIZIONE DELLA PLACCA BASE  
BESCHRIJVING VAN DE MOEDERPLAAT

DESCRIPÇÃO DA PLACA BASE  
BESKRIVELSE AF BUNDKORT  
BESKRIVNING AV BAS  
ALUSTAN MAÄRITTELY  
ΠΕΡΙΓΡΑΦΗ ΤΗΣ ΠΛΑΚΑΣ ΒΑΣΗΣ

- A** Pulsador Programación/Reset  
Bouton programmation/reset  
Programming /reset pushbutton  
Programmierungs/Resettaste  
Pulsante programmazione/reset  
Drukknop programmering/reset  
Pulsador programação/reset  
Programmerings/Nulstillingskontakt  
Knapp programmering/olliställning  
Ohjelmointi/reset-painike  
Πλήκτρο προγραμματισμού / επανόρρου
- B** Conexión Tarjeta de radio  
Conexión carte de radio  
Radio card connection  
Anschluß Radiokarte  
Connessione scheda di radio  
Aansluiting radiokaart  
Ligação placa de rádio  
Tilslutning radiokort  
Anslutning radiokort  
Radiokortiliitin  
Σύνδεση κάρτας ραδιοφωνίας
- C** Relés de activación (Excepto Rack+M)  
Relais (sauf RACK+M)  
Relay (except for the RACK+M)  
Relais (ausser RACK+M)  
Relè (eccetto RACK+M)  
Relais (uitgezonderd RACK+M)  
Relè (excepto RACK+M)  
Reläe (undtagen RACK+M)  
Relä (förutom RACK+M)  
Relè (ei koske RACK+M)  
Relè (antós RACK+M)

- D** Conexión cuadro de manobra  
Conexión armoire de commande  
Control panel conection  
Anschlußklemme Steuerung  
Conexione quadro  
Aansluiting paneel  
Ligação do quadro de manobra  
Tilslutning relæskab  
Anslutning manöverpanel  
Ohjauustaulitiitäntä  
Σύνδεση τριώκου χειρισμού
- E** Antena  
Antenne  
Antenna  
Antenne  
Antenna  
Antenne  
Antenni  
Κεραία



- 1** Red (+dc)
- 2** White (-dc)
- 3** Green (relay 1 NO)
- 4** Blue (relay 1 NO)
- 5** Black (relay 2 NO)
- 6** Brown (relay 2 NO)

## RECEIVERS DCS RACK+M - RACK+M1C/2C - NOVOBOX1/2 GENERAL DATA / TECHNICAL DATA

	RACK+M	RACK+M1C/2C	NOVOBOX1/2
Frequency	433,92MHz / 868,35MHz	433,92MHz / 868,35MHz	433,92MHz
Code memorisation	Self-learning	Self-learning	Self-learning
Memory	Permanent EEPROM 31 cod.	Permanent EEPROM 31 cod.	Permanent EEPROM 31 cod.
N. of channels	1	1 or 2	1 or 2
Antenna	Built-in	Built-in	Built-in
Power supply	12 / 24 V ac. dc.	12 / 24 V ac. dc.	12 / 24 V ac. dc.
range in 12V dc	from 11,8V to 13V	---	---
Relay contacts	1 A / 125 V ac.	1 A / 125 V ac.	1 A / 125 V ac.
Sensitivity	> -100 dBm	> -100 dBm	> -100 dBm
Consumption rest	19 mA	15 mA	15 mA
Max consumption	107 mA	75mA	75mA
Working temp	- 20 to + 85° C	- 20 to + 85° C	- 20 to + 85° C
Watertight	---	---	IP44
Mother board dimensions	67x41x24 mm	67x41x24 mm	67x41x24 mm
Dimensions	---	---	98x58x40 mm

### OPERATION

Upon receiving a code, the receiver first checks whether it is stored in memory and then activates the output

### ***OPERATING MODE "SINGLE CHANNEL OR MULTIPLE CHANNEL"***

- Single channel: the relay can be activated by the 1st or 2nd, 3rd or 4th channel of a transmitter already stored in the receiver.
- Multiple channel: the relays are activated as follows, 1st channel by the relay 1, and 2nd by the relay 2 (if they exists).

### INSTALLATION AND CONNECTIONS

Disconnect the power before working on the receiving installation.

### ***CHASSIS ATTACHMENT***

Attach the rear part of the chassis to the wall using the plugs and screws supplied. Mount the receiver front and pass the cables and the antenna through it. Do not position the receiver less than 5 metres away from another receiver and/or active antenna.

### ***CONNECTIONS***

Connect the power cables to the terminals marked 1(+dc) and 2(-dc) in the mother board, as indicated.

### PROGRAMMING

#### ***MANUAL PROGRAMMING***

Press the programming pushbutton; a red programming led will turn in and a long acoustic signal will sound. Then send the code(s) to be programmed, pressing the transmitter. A short audible signal will sound after each code is memorised. If no new transmitter is recorded in a space of 10 seconds or by pressing the button in the rear of one of the recorded transmitters, the receiver leaves the programming mode.

### **PROGRAMMING VIA ADDITIONAL RADIO TRANSMITTERS WITH “MASTER TRANSMITTER”**

It is necessary to have a transmitter already recorded in this receiver. Press the button in the rear of the transmitter which is already recorded in this receiver (if there is more than one receiver nearby, this will activate the programming mode in all the receivers). The receiver will emit a long acoustic signal, indicating it has entered the programming mode. To record each of the new transmitters, press the corresponding channel in each of them. A short acoustic signal after each recording will confirm that the programming has proceeded correctly. If no new transmitter is recorded in a space of 10 seconds or by pressing the button in the rear of one of the recorded transmitters, the receiver leaves the programming mode.

### **PROGRAMMING VÍA ADDITIONAL RADIO TRANSMITTERS WITHOUT “MASTER TRANSMITTER” (PIN-MODE)**

In order to operate in this mode, it is necessary to first insert an installation “PIN”. This “PIN” is a four-digit number, which is inserted, by means of a MANAGER+DCS or MINIMAN+DCS, into the first transmitter which is recorded in the receiver. To record the “PIN” into the receiver, press the programming pushbutton during 1s, a long acoustic signal will indicate it has entered the programming mode. Continue pressing during 4s more, and a long intermittent acoustic signal will indicate that the memory has been erased. Continue pressing the pushbutton and now you can press the transmitter. Then, two short acoustic signals will indicate the exit of the programming mode. As from now, the receiver will recognize this “PIN” in any transmitter inserted. This “PIN” will be emitted pressing the pushbutton of the rear part of the respective transmitter, and automatically, the receiver will store it in his memory with a long acoustic signal.

### **DELETION OF MEMORY**

A code cannot be deleted individually. It can only be eliminated by performing a “system reset”. To erase the memory, press the programming button for 5 seconds. A long “beep” will indicate that the unit has entered the programming mode. After the 5 seconds, the unit will emit a series of intermittent “beeps”, indicating that the memory is free and that the receiver is in the programming mode. The installation PIN will remain operative, in case you are using PIN-MODE.

**Note:** in the hypothetical event of the receiver memory being affected by some unusual external factor, the unit will emit an intermittent acoustic signal when the transmitter is pressed.

### **CODE REPLACEMENT**

This function enables you to cancel transmitter without the necessity of having the receiver present. By means of a MANAGER+DCS or MINIMAN+DCS and knowing the code, you can change the “Replacement Number”, from “0” to “7” for transmitters (0 is the first remote control delivered by the factory, and 7 the last “replacement” before setting the code as obsolete in the installation). The system permits such “replacements” from a new transmitter, changing the code and “Replacement Number” (see MANAGER+DCS portable programmer manual). Emitting the code to the receiver, the new replacement number will cancel the previous one and will be automatically updated. In the installation, the user must activate the transmitter twice. The first time, the receiver updates the new element and cancels the previous one. The second time, the receiver activates the corresponding operation in the receiver.

### **USING THE RECEIVER CARD**

This receivers are designed for the remote control of garage doors, to send the activation commands to control panels in which the card is inserted. Its use is not guaranteed for directly activating units other than those specified. The manufacturer reserves the right to modify the equipment specifications without notification.

### **IMPORTANT ANNEX**

In compliance with the European Directive low-voltage electrical equipment, we hereby inform users of the following requirements: for units which are permanently connected, an easily accessible circuitbreaker device must be built into the wiring system; this unit must always be installed in a vertical position and firmly fixed to the structure of the building; this unit must only be handled by a specialised installer, by his maintenance staff or by a duly trained operator; the instruction manual for this unit must always remain in the possession of the user.

### **EC DECLARATION OF CONFORMITY**

The manufacturer

**JCM TECHNOLOGIES, S.A.**

C/Bisbe Morgades, 46 Baixos

08500 VIC – Barcelona

SPAIN

declares herewith that the product designated below complies with the relevant fundamental requeriments as per Article 3 of the R&TTE Directive 1999/5/EG, insofar as the product is used correctly, and that the following standards apply:

Product: Receiver 433,92MHz / 868,35MHz

Manufactured by: JCM TECHNOLOGIES, S.A.

Trade mark: JCM

Type: RACK+M, RACK+M1C/2C, NOVOBOX1/2

Environment of use: Residential, commercial and light industry

Standards:

- Telecommunication EN 300 220-1 v1.3.1 (2000-09), EN 300 200-3 v1.1.1 (2000-09)
- Electromagnetic Compatibility EN 301 489-3 v1.3.1 (2001-11), EN 301 489-1 v1.3.1 (2001-09)
- Low Voltage EN 60730-1 (2000)

Vic, 03/01/03



JUAN CAPDEVILA MAS

General manager