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DESCRIPTION

The digital selector is a transmitter device operating by means of a personalized combination, to be typed on a special automatically back lighted alphanumeric keyboard.

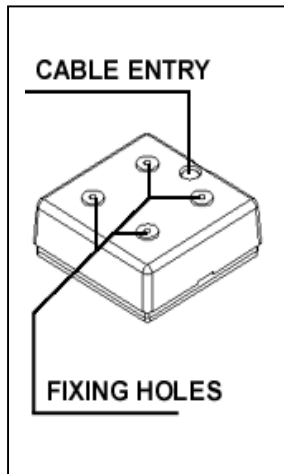
Typing the right access code enables the digital code transmission. The digital code will be transmitted on radio frequency or on wired line, device depending.

TTNR433PP	DIGITAL RADIO SELECTOR	FOR PERSONAL PASS SYSTEMS
TTNC	WIRED DIGITAL SELECTOR	
TTNR433RY	DIGITAL RADIO SELECTOR	FOR ROYAL / 53200 SYSTEMS

The radio frequency keypad is a 9 Volts battery wireless device, while the wired unit needs an external power supply (which can be directly supplied by the command board-receiver).

INSTALLATION

Maximum range evaluation tests are to be carried out before any digital radio selector installation. (Not necessary for wired device). Please follow the next page instructions.



INSTALLATION

Therefore, if you employ the digital radio selector, first you have to program the system in order to perform the range test between the digital radio selector and your receiver device.

Once you have established the maximum distance fix the installation point reducing such distance of 30%.

Do not install the digital selector on metallic surfaces.

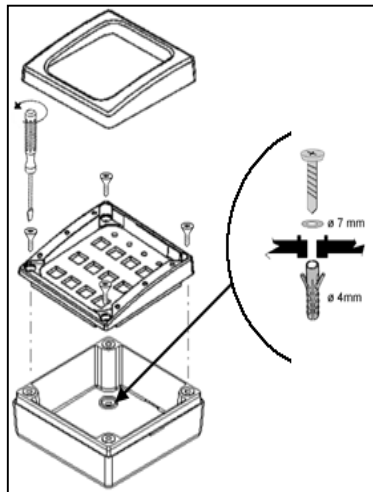
To open the digital selector plastic box you have to unthread the upper fixed frame, screw off the screws and take out the keyboard together with its electronics.

As for the wired version, only use the 2 knockout holes to allow cables or flexible tubes, carefully sealing any cables entry to avoid water and dust seepage.

Use suitable screw anchors (advisable diameter 4mm) according to the surface material.

We recommend inserting a PVC washer (external diameter 7mm) inside the packing groove of the plastic base box. this to avoid water seepage from the fixing holes (see figure).

Such device, if correctly installed is suitable for outdoor installations.



PROGRAMMING

If your system is currently using other kinds of V2ELETTRONICA transmitters, your digital selector must be of the same kind too. By pressing the **CLEAR** key and checking the state of LED1 LED2, you may verify such requirement.

MODEL	CHANNEL NUMBER	PROGRAMMING CODE STRUCTURE	ACCESS CODE STRUCTURE	STRUCTURE OF THE EXIT DIGITAL CODE
TTNR433PP	9	6 DIGITS	1 + 8 DIGITS	PRE PROGRAMMED (52 BIT) P. PASS CHANGEABLE CODE
TTNC	9	6 DIGITS	1 + 8 DIGITS	PRE PROGRAMMED (52 BIT) P. PASS CHANGEABLE CODE
TTNR433RY	4	6 DIGITS	1 + 8 DIGITS	ROYAL OR 53200 FIXED CODE TO BE PROGRAMMED (12 BIT)

Channel digital code which is first stored into a receiver (gate control board, roller shuttle control board, mini receiver...) and subsequently when recognized, enables the command required.

Programming code: alphanumeric combination to personalize the system.

Access code: personalized alphanumeric combination.

Typing the access code the transmission of the digital code will be start, and the command executed.

DEVICE VERSION CHECK UP

THE TWO LEDs EMIT THE FOLLOWING LIGHT SIGNALS:

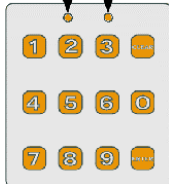
3 BLINKINGS IF PERSONAL PASS

2 BLINKINGS IF 53200

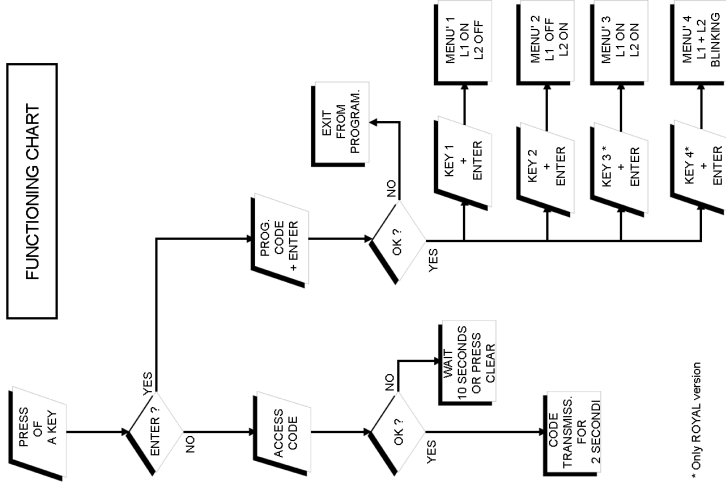
1 BLINKING IF ROYAL

LED 2

LED 1



FUNCTIONING CHART



* Only ROYAL version

PROGRAMMING

The previous flow chart (diagram) shows the digital selector operation.

There are two codes to be fixed to personalize your system: the ACCESS CODE and the PROGRAMMING CODE.

Person allowed to access should know the ACCESS CODE used to perform the access command.

Only the system administrator should know the PROGRAMMING CODE used to change and to administrate the system. Within the programming phase, you may choose among four different menus as follows:

MENU 1	<i>To change the programming code</i>
MENU 2	<i>To change the access code</i>
MENU 3	<i>To change the DIP-SWITCH code (only for TTNR433RY)</i>
MENU 4	<i>To change the operation mode (only for TTNR433RY)</i>

TO ACCES ANY MENUS YOU MUST EXECUTE THE FOLLOWING STEPS:

ENTER + PROGRAMMING CODE + ENTER

– MENU NUMBER (1 ÷ 4) + ENTER

The digital selector is **usually** in the SLEEP mode, i.e. awaiting a command, having its backlight switched off.

During the programming mode, it comes back to the SLEEP mode at the following conditions:

- Pressing the CLEAR key in any programming phase.
- If you interrupt for more than one minute a 2 key typing sequence.
- After a 3 sec. BEEP, showing a right operation execution.
- In case of error (for example: pressing any key different from 1/2/3/4 when choosing the menu).

However, if you want to continue your programming, you have to go back and type again the programming code.

During the operation mode, the digital selector goes back to the SLEEP mode after **5 seconds** of no any key typed.

TO CHANGE THE PROGRAMMING CODE – MENU 1 –

To enter the programming mode, you have to select the **MENU 1**:

- Type ENTER + "PROGRAMMING CODE" (default is 999999) + ENTER	1 BEEP for 1,5 sec + LED1+LED2 blinking for 1,5 sec.
- Type "1" + ENTER no later than 1 minute, (after 1 minute waiting time THE DIGITAL SELECTOR automatically goes back to the SLEEP mode).	1 BEEP + L1 blinking

The first default programming code is **"999999"** and we recommend to replace it with another **6 digits code**.

To change your programming code, please follow the instructions hereunder:

As soon as you are in the menu 1:

- Enter the "DEFAULT PROGRAMMING CODE" + ENTER	1 BEEP for 1 sec.
- Enter the "PERSONALISED PROGRAMMING CODE" + ENTER	1 BEEP for 1 sec
- Repeat the "PERSONALISED PROGRAMMING CODE" confirm)+ ENTER 1	1 BEEP for 3 sec. if the operation is right
	SHORT LEDs' BLINKINGS if it is not right

In case of failure (for example if the typed personalized and the confirming codes are different one from the other; if more than 1 minute waiting time has gone) the dig. selector comes back to the SLEEP mode and you must repeat everything again.

In case of a further change of the programming code, you must enter the previous programmed code, this means that the default code is now unusable.

We absolutely recommend to always remember this code, since there is no more chance to return to the default code. In case of losing of your access code, please contact V2ELETTRONICA-service agency.

DEFAULT ACCESS CODE FOR PERSONAL PASS VERSION	DEFAULT ACCESS CODE FOR ROYAL AND 53200 VERSIONS
CANALE 111111	CANALE 1.....11111
CANALE 2.....2xxxxxxx	CANALE 2.....2xxxxxxx
CANALE 3.....3xxxxxxx	CANALE 3.....3xxxxxxx
CANALE 4.....4xxxxxxx	CANALE 4.....4xxxxxxx
CANALE 5.....5xxxxxxx	
CANALE 6.....6xxxxxxx	
CANALE 7.....7xxxxxxx	
CANALE 8.....8xxxxxxx	
CANALE 9.....9xxxxxxx	

In the digital selector equipped with default sets, only channel 1 is enabled to transmit through its default access code (1111).

The first code digit always identifies the relevant channel and it cannot be changed.

This means that the channel 1 access code cannot be different from 1 x x x x x x ; the same is valid for channel 2 and so on.

Using only one digit access code (i.e. the channel identification number) meets the digital selector requirement to be used as a simple multi channel transmitter when there are no safeties needs.

Pressing the single numeric key, the corresponding channel will be activated.

TO CHANGE THE ACCESS CODE – MENU 2 –

Enter **MENU2**:

- Type ENTER + " PROGRAMMING CODE "(default is1111) + ENTER	1 BEEP for 1,5 sec LED1+LED2 switched on for 1,5 sec.
- Type " 2 " + ENTER	2 BEEPS + L2 switched on

Then (no later than 1 minute):

Enter " CHANNEL NUMBER " (from 1 to 9) + ENTER	1 SHORT BEEP for 1 sec.
Enter "your personalized " ACCESS CODE " + ENTER	1 SHORT BEEP for 1 sec.
Repeat "your personalized " ACCESS CODE " (confirm) + ENTER	1 BEEP for 3 sec. if the operation is right SHORT LEDs' BLINKINGS if it is not right

In case of failure THE DIGITAL SELECTOR returns to the SLEEP mode.

The same kind of operation should be repeated for any channel to be programmed. To **disable a channel** please comply with the following procedures, enter **MENU 2**:

Enter the " CHANNEL NUMBER TO BE DISABLED " + ENTER	1 SHORT BEEP for 1 sec.
Type " 0 " + ENTER	1 SHORT BEEP for 1 sec.
Type " 0 " + ENTER	1 BEEP for 3 sec. if the operation is right Short LEDs' BLINKINGS if it is not right

In case of failure THE DIGITAL SELECTOR returns to the SLEEP mode.

TO CHANGE THE DIP- SWITCH CODE (Only for Royal / 53200 versions) – MENU 3 –

Royal / 53200 selector, unlike its P. PASS version. A "ROYAL" (V2ELETTRONICA) fixed code or a standard "53200" code is transmitted, depending on the selected mode. The final user must define such codes likewise a DIP SWITCH wireless control code.

Such programming depends on the type of transmitters used in your system.

If your system is not equipped with wireless remote controls, you can indifferently choose between the two codes, otherwise the digital selector will have to be adapted to the existing system.

Shifting on the ON or OFF position the micro-switches in the card, you will obtain a remote control device coding; entering the menu 3 and observing the relevant procedures in the following page, you will begin an "0" sequence (same as SWITCH in the OFF position) and a "1" sequence as well (same as SWITCH in the ON position).

In this case too, channel 1, the only one which is first enabled with the access code "1111", has a default "dip Switch": **0101010101 00**, which can be changed as follows:

- Enter the programming menu as described at page 39 and select **MENU 3**.

Choose the DIGITAL SELECTOR channel - Type a number from 1 to 4 + ENTER	1 BEEP for 1 sec.
- Enter the new code typing a 12 digit combination of "0" or "1" + ENTER	1 BEEP for 3 sec. if the operation is right SHORT LEDs' BLINKINGS if it is not right

In case of failure the digital selector come back to the SLEEP mode after short blinkings of LED1 and LED 2.

Note:

If your Royal or 53200 system is equipped with wireless remote control devices, the last two dip switch digits (digit nr.11 and nr. 12) have to be entered as follows:

Define the transmitter key enabling the command to be carried out by the digital selector; such command is mostly a gate opening command. Then enter the last two digits as follows:

1 CHANNEL		2 CHANNEL		4 CHANNEL	
KEY 1	AS DIP SWITCH	KEY 1	11 = 0 12 = 0	KEY 1	11 = 0 12 = 0
		KEY 2	AS DIP SWITCH	KEY 2	11 = 1 12 = 0
				KEY 3	11 = 0 12 = 1
				KEY 4	11 = 1 12 = 1

ROYAL
4 CHANNEL
TRANSMITTER



ROYAL PLUS
4 CHANNEL
TRANSMITTER



SELECTION BETWEEN TWO OPERATION MODES: ROYAL OR 53200 – MENU 4 –

Menu 4 enables, as follows, your selection between two kinds of transmitted codes: "Royal" or "53200".

Enter **MENU 4**, then:

- Type 1 + ENTER to select the "Royal" code	1 BEEP for 1 sec.
- Type 2 + ENTER to select the "53200" code	1 BEEP for 1 sec.
Repeat the previous step	1 BEEP for 3 sec.+ LEDs BLINKING FOR 3 sec.

In case of failure THE DIGITAL SELECTOR returns to the SLEEP mode.

REPLACING BATTERY

The digital selector is equipped with a battery charge indicator, pointing out two options:

Battery partly down: THE DIGITAL SELECTOR'S SHORT BEEPS FOR 2 SEC. as soon as it is connected with the battery or after a valid access code has been entered.

- The access code can be performed the transmission, while the code programming is not enabled.

Battery down: THE DIGITAL SELECTOR'S 3 BEEPS FOR 3 TIMES as soon as it is connected with the battery or by pressing any key.

- Programming and control operations are not enabled and battery must be replaced.

Note: Only use EF22 alkaline 9V battery.

TECHNICAL SPECIFICATIONS

Radio THE DIGITAL SELECTOR input: ALKALINE 9V Battery.

Wired THE DIGITAL SELECTOR input: 12 V dc, V ac; 24 V dc, V ac

Power: 0,3 mW (434 MHz)

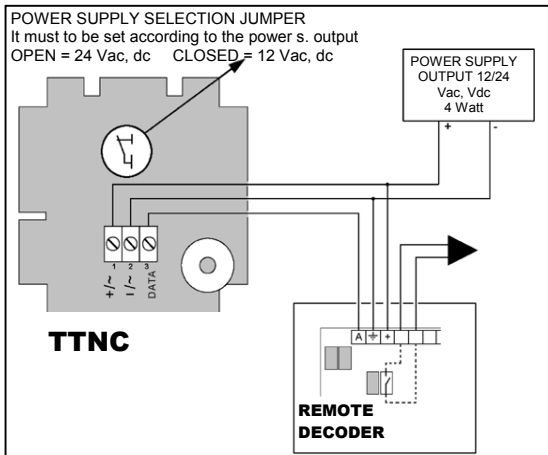
Consumption: Max. 25 mA. Life (with 550-mAh alkaline battery): about 8000 accesses. (1 year, considering 20 accesses per day).

WIRED VERSION CONNECTION WITH THE REMOTE DECODER

A **REMOTE DECODER** must be used to connect the TTNC to a control board.

Use an external power supply unit to supply both **the digital selector** and the **remote decoder**.

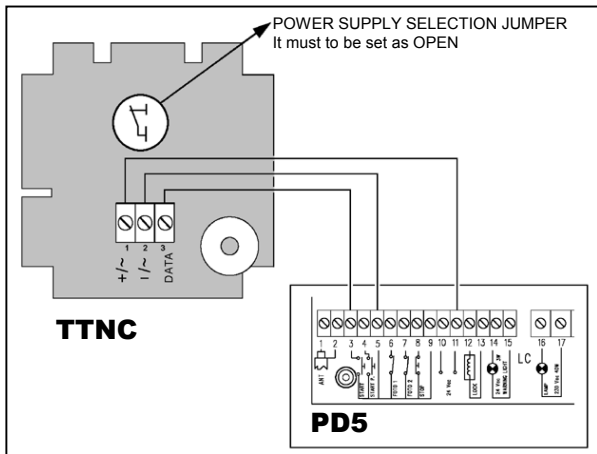
The digital data transfer line does not need any shielding. It must be no longer than 100 meters.



WIRED VERSION CONNECTION WITH THE PD5 CONTROL BOARD

Please follow the scheme to connect TTNC with a **PD5** unit.
(Remember to set the appropriated activation menu to enable the data input mode).

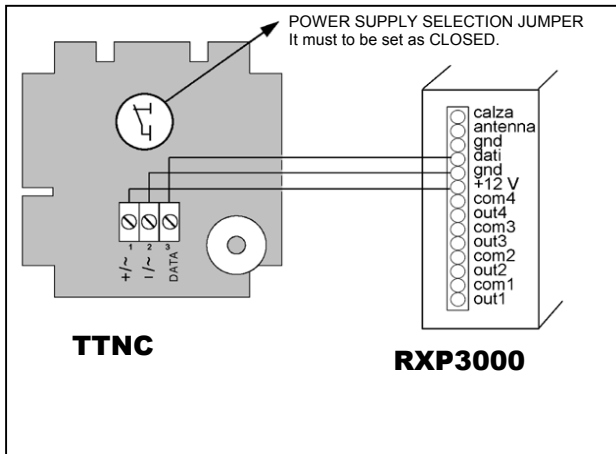
The digital data transfer line does not need any shielding.
It must to be no longer than 100 meters.



WIRED VERSION CONNECTION WITH THE RXP3000 RECEIVER

Please follow the scheme to connect TTNC with a RXP 3000 receiver.

The digital data transfer line does not need any shielding.
It must be no longer than 100 meters.



DECLARATION OF CONFORMITY

V2 ELETTRONICA SPA declare the conformity of the equipment with the following standards in accordance with **99 / 05 / EEC** and modification Directive for the CE marking.

ELECTRICAL SAFETY	EN 60 950 + A1 + A2 + A3 + A4
ELECTROMAGNETIC COMPATIBILITY	EN 301 489 – 3
OFFICIAL USE OF THE SPECTRUM	EN 300 220 – 3

Racconigi, li 25 / 07 / 2001

V2 ELETTRONICA SPA legal Representative

A.LIVIO COSTAMAGNA

CAUTION!

A transmission less than 6 minutes per hour is suggested in order to facilitating sharing between systems in the same frequency band. In several countries of European Union transmission for a period greater than six minutes per hour is not allowed. Problems with the national telecommunication agencies could be arise”