

# ELVEX®

Communicating in style

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## PORTER'S SWITCHBOARD

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OPERATION MANUAL

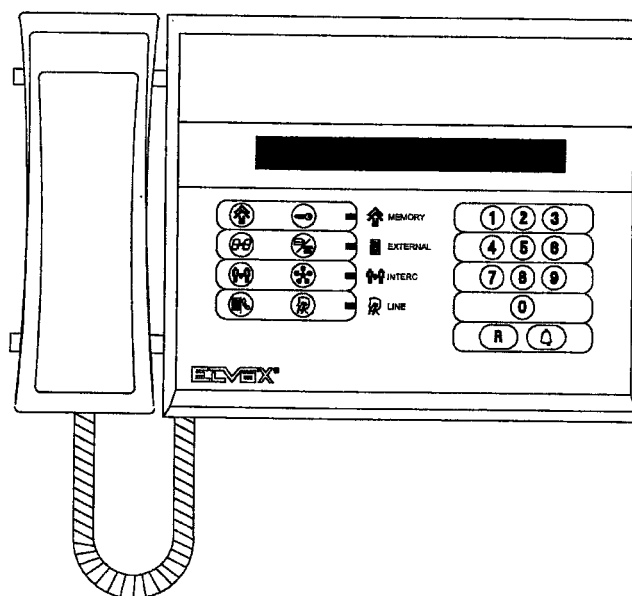
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### Art. 945B



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Il prodotto è conforme alla direttiva europea 89/336/CEE e successive.  
Product is according to EC Directive 89/336/EEC and following norms.

## DESCRIPTION

Porter's switchboard in desk-top version with black thermoplastic housing. This switchboard can call up to 99999999 users using a 20-key keypad which serves to enter user numbers, make calls, activate intercom or conference functions (excluding the building complex), release the door lock and for F1-F2 functions and to cancel the operation currently in progress. The switchboard can store up to 30 different calls (displayed by using the memory scroll button) and is provided with watch (with time and date) and two wake up functions. Option to manage a printer (add an interface type 945/1).

## MANAGING THE DISPLAY (40X2):

The switchboard display is (in its typical operation state) divided in 5 main zones in order to allow an easy and immediate distinction of all data displayed.

### UPPER LINE

3 zones may be distinguished:

Left hand side: display of all outgoing messages, and also particular information signalling.

Centre: display of the number to be dialled (8 digits) or the respective message on its left hand side

Right hand side: display of the current time.

### LOWER LINE

- Left hand side: display of all incoming messages (from internal units or from external lines), followed by respective number.

- Right hand side: display of a series of "icons" able to show in a graphic way a wide series of states/functions.

## "ICON" DESCRIPTION



(box with an arrow, followed by a number): It shows that there are calls (or other commands) in the memory (5 = number of queued calls)



(Telephone handset): It means the handset is lifted.



(Arrow toward the wire at the left hand side): It indicates intromission in the conversation line by the switchboard's operator.



(Key): It means there is a lock release or a function activation in progress.



(Bell in movement): It means there is a call in progress (ring). Is then being replaced by an "A" indicating a "Wait for the answer" and then by a "C" indicating a "Conversation in progress" (NOTE: with hooked handset).



(Telephone in movement): It means there is a connection with the telephone line.

(Lock): Indicates "locked keypad" by an external key.

(Int) (Ext): Indicates the switchboard state (Internal or External mode).










Exclusion of sound (by using R+3).



(Lock in movement): Indicates 'locked keypad'.

Moreover, the display switches its operation if there is any particular function.

## QUICK GUIDE

- Parameter programming (R+4) + code
- Displaying the date-time-wake up (R+2), (or R+"8->8")
- Entering the code for keypad lock (R+1)
- Activation of accessory functions (KEY)
  
- Programming the events to store (R+ )
- Programming the events to print (previous + )
- Setting the time for wake up service 1 (previous + )
- Setting the time for wake up service 2 (previous + )
- Setting the time (previous + )
- Setting the date (previous + )
  
- Exclusion - Reactivation of audio sound  R + 3

### **STORED CALLS**

- Possibility of storing different types of "events": calls from interphones, activation of: different functions, door lock release, calls from switchboard. The selection of the type of events to store is managed by interactive menu type display (see "OPERATION OF MENU PROGRAMMING" ).
- Besides the type of message concerning the type of event and the calling number, the time of the event is stored.
- Maximum number of stored messages: 30 with circular queue (i.e. the latest 30 more recent events are stored).
- Storage of events on the watch backed up RAM (by means of a proper capacitor). In case of mains failure there is no loss of stored data.
- The events may be sent to a printer simultaneously (option with interface type 945I).
- In case of events stored in the memory, a special flashing icon is activated (arrow toward the box) on the display and also the number of stored messages. As soon as a message is read it gets cancelled and the number decreases .
- A sound simultaneous with the event reception is generated (programmable).

### **INTERNAL WATCH WITH DATE AND TIME AND 2 WAKE UP SERVICES**

It is always possible to display the present date and time. The internal watch is "backed up" (by means of a capacitor) in case of mains failure (**for nearly 4 days without mains**). Two wake up services may be also programmed.

### **AUDIO EVENTS**

Different types of sounds are foreseen according to different type of events (call from riser, from external lines, wake up service etc.). The sounds may be also programmed with musical melodies by means of a special software and an interface connected to a personal computer.

### **"SOFTWARE" LOCK KEY**

The switchboard keypad may be locked by means of the "software key".

### **SIMPLIFIED MANAGEMENT OF THE "INTERNAL-EXTERNAL" MODE PUSH-BUTTON.**

Now the "Internal-External" push-button (I/E) has only the function to switch from the internal to the external mode. In this new version there is no simultaneous keypad lock activation. At any time it is possible to recognize the switchboard state: a proper symbol on the bottom on the right hand side of display (icon zone) indicates the mode ("I" for internal mode and "E" for external mode). On external mode also the respective "EXTERNAL" mode LED switches on. NOTE: the state is memorized in EEPROM and is kept stored even during the mains failure.

### **MANAGING THE PRINTER**

- The printer is connected by means a special optional interface, built-up inside the same switchboard.
- Any printer provided with connected parallel circuit board may be installed (not any more a dedicated printer). It is the internal software to manage the different models.
- A wide range of data may be selected (either on reception either on transmission).

### **CIRCUIT BOARD RE-PROGRAMMING "IN-CIRCUIT".**

The circuit board may be easily programmed "in-circuit" by proper connector (above all useful for special versions).

### **POSSIBLE CONNECTION TOWARD A PC**

By means of a computer equipped with a proper software and interface it is possible to download the data (events in memory), to manage the configuration parameters, to manage the names in memory (optional), and to set various functions. Moreover, it is possible to modify the musical melodies, the direct event recording, and to make a partial switchboard selfdiagnose.

## PROGRAMMING THE SWITCHBOARD PARAMETERS

The switchboard is delivered with an "already inserted" basic program, which can be modified according to the instructions to follow. The programming is necessary if the pre-programmed parameters do not satisfy the installation requirements.

### A) Entry to programming mode using the front switchboard keypad

Press push-buttons "R" and "4" simultaneously on the front keypad.

When a series of symbols "#####" is displayed on the screen, digit code "123". If the above sequence has been correctly performed "PROGRAM" will be displayed on the LCD screen. If this is not the case, repeat the entire procedure.

Once you have entered the programming mode use the bell button  $\text{\textcircled{A}}$  to scroll the following parameters and the numerical keys to modify the associated values. In the case of error, only use the numerical keys to correct the value entered. Press push-

button  $\text{\textcircled{A}}$  to confirm any changes. On completion of programming, press push-button  $\text{\textcircled{A}}$  and then R to exit the technical programming function.

Parameters may be programmed and consulted as and when required.

Parameter settings are stored in the memory even in the event of power failure until next edited.

## Switchboard technical parameters table

Parameter	Minimum value	Maximum value	Set value	Description
Initial user	1	99999999	0000001	only for building complex
Final user	1	99999999	99999999	only for building complex
System Number	1	99999999	00000000	It assigns a code to the switchboard (for direct call from entrance panel or remote programming).
	1	99999999	00000000	Not used
Technical prg. key	0	9999	0000123	Technical programming access code
Dis switch keypad	0	9999	000027	Switchboard keypad disable code
* Number of digits	4	8	000004	4/8 digit selection
Language	0	1	000000	0 = Italian language 1 = English language
Entr. Pan. Prefix	0	99	000099	The two rows indicate the call function from the external panel to the switchboard
Lock abilit	0	1	00001	Enables transit of door lock activation (0 = NO, 1 = YES)
Camera abilit	0	1	00001	Indicates presence of switchboard (0=NO, 1=YES).
Sound enable	0	2	00002	0= Disable all chimes 1= Enables the internal call chime 2= Enables the external and internal call chime
Ring time enable	0	1	00001	Sound enabling for the clock signal
Function Vis. enable	0	1	00001	Function display enabling
Switchboard dialling code	1	255	00000000	
Call rip. number	1	255	00003	Enables the switchboard call chime for the programmed intervals
Conversation time	1	255	00012	Maximum conversation time (time = value x 10 seconds; 12 = 120 seconds)
Ring duration	1	255	00001	Call signal activation time (time = value x 1 second)
Answer time	1	255	00030	Relay delay time (time = value x 1 second)
F1 time	1	255	00001	EM1 auxiliary function activation time (time = value x 1 second)
F2 time	1	255	00001	EM2 auxiliary function activation time (time = value x 1 second)
Lock time	2	255	00001	Door lock activation time (time = value x 1 second)
Printer Set	0	255	00001	Printer setup
Reserved parameter	0	1	00000000	Reserved parameter

press R to exit

Same parameter as that of the entrance panel and internal product programming (interphone-monitor).

## OPERATION

### DISPLAYING THE TIME - DATE - WAKE UP TIME-TABLE

The time is always displayed at the top on the right hand side of display.

To display other data press push-buttons **R+2** (or R+Number transf. [8->8]), and the following message will appear:

DATE: 14/02 15:30:35  
AL.RING: 12:30 & 18:30

### ACTIVATION OF LOCK RELEASE, F1, F2 AND OF THE ACCESSORIES FUNCTIONS F6, F7, F8:

Pressing the **"CHIAVE"** (Key) push-button the following menu will appear:

SELECT OPEN?  
(0=LOCK; 1=F1; 2=F2; 6=F6; 7=F7; 8=F8).

Pressing a numerical push-button the respective command is activated. Besides the normal door lock ("O" push-button) it is possible to activate Function 1 (push-button 1) and F2 (push-button 2). The activation in this case works on proper pin and send downward the corresponding digibus command (to possible main entrance panels).

Pressing, on the contrary, the numerical push-buttons 6, 7 or 8 it is to send an auxiliary command (F6, F7 or F8) to a possible auxiliary relay (type 170D) in order to allow other possible external functions (stair light, irrigation etc.) to be activated (other 5 external functions (max) may be activated besides the door lock).

In all cases during the activation time the "key" icon is simultaneously activated.

### SWITCHBOARD LOCK BY MEANS OF A SOFTWARE KEY

The complete keypad lock may be made by inserting a password. This password must be previously stored in the technical parameters (parameter = "CHIAVE BLOC SW.") with a number included between 1 and 32000.

To activate the lock using the software key, press push-buttons **"R+1"** simultaneously. A request for password appears:

Cod. Bloc. Tas. ?  
-----

Enter then the password and press C (default password=27)

The switchboard keypad is now blocked. The display shows the message "IBLOCCO CHIAVE!" (locked keypad). Transit and calls toward the switchboard are in any case completely active.

To release it repeat the same procedure repeating the same password.

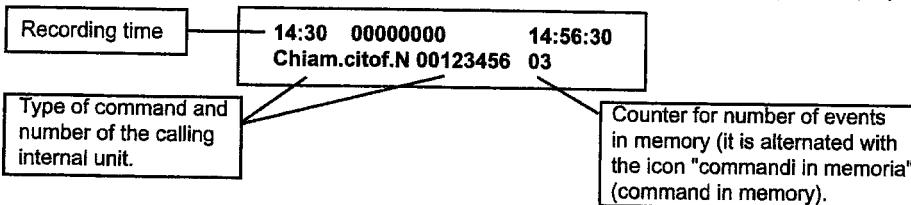
To modify the password enter the parameter programming (pressing **"R+4"**) and enter the parameter "Chiave Bloc. Sw." using the wanted password value.

**NOTE:** the lock operates even during a mains failure.


**CONFIDENTIAL:** If you forget the password enter the programming mode by using push-buttons on the lower side. Press PS2 and release it, press and keep pressed PS1 until the message PROGRAM appears and check the password in the analog parameter in the memory.

### QUEUE OF STORED CALLS:

The backed-up memory keeps the latest 30 requests from internal units (calls and/or F1 and/or F2 and/or APERTURA\_SERRATURA (lock release) according to the programming) complete with the reception time. In this case a special event counter with icon (box with arrow) signals the number of events in the memory on the display (and the proper led switches on).





You can scroll the events by pressing push-button "MEM". Pressing push-button "trasferimento numero" (number transfer) (8->8) the number is got from the memory and displaced onto the call display, so as it can be called upon request. The event counter for consequence decreases the event number.

To blank the memory completely and automatically press push-button  and keep it pressed for nearly 3 seconds. A short tone and the event counter cancellation will confirm the complete buffer blanking.

## PROGRAMMING MENU

In the switchboard it is possible to program a series of accessory functions, such as:

- TIME AND DATE
- 2 WAKE-UP SERVICES
- THE TYPE OF COMMAND YOU WANT TO MEMORIZE IN THE RECEPTION BUFFER (AND SIGNAL IT WITH A MELODY)
- THE TYPE OF COMMAND YOU WANT TO SEND TO THE PRINTER (OPTIONAL).

There is a proper menu to enter these functions, which can be selected by pressing push-buttons R+  simultaneously (memory). The first selection function appears on display (COM. TO MEMO?). If it is the desired item you must digit the required value and then press C, or go to the next function by pressing push-button  several times until reaching the required item. Find hereby the different functions (in the order as they appear):

### 1) PROGRAMMING THE COMMANDS TO BE STORED ("COM. TO MEMO" on display):

It allows to select the commands (received by the serial) to be memorized in the circular buffer (30 memories).

<b>COM. TO MEMO?</b> <b>015</b> <b>1=CH; 2=F1; 4=F2; 8=LOCK</b>
--------------------------------------------------------------------

As shown on display, press 1 to activate the storage of "CHIAMATE DA CITOFONO" (CH) (Calls from interphone), 2 for command F1, 4 for F2, 8 for lock release (LOCK). If you want to enable the storage of more functions press the sum of values (For example: if you want to memorize CH, F1 and F2 dial 7 (1 =CH +2 (=F1) + 4 (=F2)).

On the right hand side of the upper line the present programmed value is displayed (15 = all commands). Press C to enter the new value or R to exit without modifying.

### 2) PROGRAMMING THE COMMANDS TO PRINT ("COM. TO PRINT" on display):

It allows to select the commands to be sent to the printer connected (optional).

Obviously in this case the switchboard must be connected to an external printer by means of a proper interface (on a parallel port).

<b>COM. TO PRINTER?</b> <b>031</b> <b>1=CH; 2=F1, 4=F2; 8=LOCK; 16=CENT</b>
--------------------------------------------------------------------------------

According to display, press 1 to activate the printing of "CHIAMATE DA CITOFONO" (CH) (Calls from interphone), 2 for commands F1, 4 for commands F2, 8 for lock release (LOCK) and 16 for all calls made by the switchboard. If you want to enable the printing of more functions press the sum of the values (for example: if you want CH and F2 dial 5 (1 = CH) + 4 (=F2)).

On the right hand side of the upper line the present programmed value is displayed (31 = all commands).

Press C to enter the new value or R to exit without modifying.

NOTE: If a printer is not connected, it is advisable to set this parameter to 0 (not to introduce useless delays).

### 3) PROGRAMMING THE WAKE UP SERVICE N. 1 ("RING 1 (hhmm) on display):

It allows to program an internal daily wake up. It will be repeated every day at the programmed time.

<b>RING 1 (hhmm)?</b> <b>1230</b> <b>(NB: 9999=No Ring )</b>
-----------------------------------------------------------------

If you want to enable the wake up time dial the hour and the minutes written with a unique 4-digit number (hhmm as suggested by the display, hh=hour, mm=minutes). (For example: to enter the wake up at 8:15 dial 0815). Press then C.

On the upper line of the right hand side the value previously programmed is displayed (12:30).

Dial 9999 to disable the wake up (No ring).

### 4) PROGRAMMING THE WAKE UP SERVICE N. 2 ("RING 2 (hhmm)" on display):

It is a possible second wake up.

Operation similar to the previous one.

### 5) PROGRAMMING THE TIME ("TIME (hhmm) on display):

To set the present time operate in the same way as you do for the wake up services (For example: to enter 17:08 dial 1708 followed by push-button C).

<b>TIME (hhmm)?</b> <b>1530</b>
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To enter the hour and the minutes press push-button "C".

On the upper line of the right hand side the present programmed value is displayed.


N.B. Press push-button R if you do not want to modify the value.

### 6) PROGRAMMING THE DATE (DATE "gg mm aa") on display)

To program the date operate in the same way as the previous ones by dialling first the day and then the month (1-12) (For example: to enter February, 25 enter 2502 followed by push-button C).

## PRINTING ACTIVATION

By means of a lodge switchboard it is possible to print (with the reception time) all incoming calls, and possibly also the activations of functions F1, F2, lock release and calls made by the same switchboard.

- 1) To carry out the printing you must have, besides the printer with parallel cable, a proper interface Art. 945/I (installed on the base of the same switchboard). The printer parallel cable must be connected to the socket for printer (CANNON 25 pins) placed on the rear panel of the same switchboard.
- 2) Through the programming menu (push-button R+ ) you must select the option (2) "PROGRAMMAZIONE COMANDI DA INVIARE IN STAMPA" (Programming of commands to be sent for printing) ("COM. TO PRINT" on display) to select the command you want to be sent for printing (for its use see above, point 2 of programming menu).
- 3) By means of the "Setup Stampante" parameter ("Printer Setup" , whose default value is 0, it is possible to set the printing mode according to the type of printer connected (see underneath. "IMPOSTAZIONE TIPO STAMPANTE" (setting the type of printer)).
- 4) Now on receiving each chosen command (CHIAMATA DA CITOFOONO (Call from interphone ), but also function F1, F2, LOCK RELEASE and CALLS FROM SWITCHBOARD) the switchboard will print a line including the reception time, the command description and the calling number.

## SETTING THE TYPE OF PRINTER

Through parameter "Setup Stampante" ("Printer Setup") whose default value is 0, it is possible to adapt the printing to the connected printer.

With 0 default value the interface send the completed line to the printer only with "Carriage- Return" command (CR=13).

This printing mode is usually suitable for all "dot impact " printers. Pratically, on receiving the line completed by the CR, the printer edits immediately the line and forces a "new line" (i.e. it goes to the following line).

In some printers, besides the CR character, also the "Line Feed" character is required (LF = 10). If the printer does not print the lines you can attempt to add such character entering parameter "SETUP STAMPANTE" = 16.

With "Ink-jet " printers or similar, it is not usually possible to print the single lines one at time. Such printers memorize line by line and then print them on receiving a proper character, which, unfortunately, forces also the paper expulsion.

It is possible to send such command ("espulsione pagina" (paper expulsion) = 12+11) by pressing "R" push-button simultaneously with "C" push-button.

It is also possible to expel the page after a certain number of lines (for example, every 30 lines there is a data printing).

To do so ADD to "SETUP STAMPANTE" (whose value is 0 or 16 according to the above mentioned instructions) the number of the wanted tens of lines (for example 2 to print every 20 lines, max = 7). Doing so the printer will carry out the printing with the paper expulsion each time it receives the required lines.

As a result it is clear that the most suitable is surely the "dot impact" printer, even in "industrial" versions with 40 columns (typically with thermal paper).

PROGRAMMED VALUES	DESCRIPTION	USE
0	Printing line by line followed by character "CR"	Typical for "matrix" printers (suggested)
16	Printing line by line followed by character "CR" + "LF"	If the previous setting does not work with "Ink jet" printers. To be added nearly always when using "Ink-Jet" printers.
16+3=19 (or 16+1...7)	The same as above but with expulsion of paper every 30 lines (3x10).	For "Ink-jet" (with required number of lines).
3+0=3 (or 1..7)	Printing line by line followed by the only character "CR" There is a paper expulsion every 30 lines	If the previously ones do not work.

**NOTE:** If the different tests after the reception, the printers do not work properly, try and press push-buttons R+C.

## TO FORCE THE EXPULSION OF THE PRINTER PAPER

If the printer is connected and it has a printing buffer, press R+C to force the printing of the buffer in memory (with paper expulsion).

## ADVISED PRINTERS

Dot impact printers, even with only 40 columns. (Ink jet printer: Hp-Deskjet 600 when printing only full pages).

In memory there are 5 different melodies (numbered from 1 to 5) associated to different types of events. Their time dwell is variable according to the maximum number of tones (25,15,15,12,10 respectively). NOTE: a the present: 1 pink-panter, 2=Chopin, 3=Vivaldi, 4=Eleinco note (List of notes), 5= Happy-Birth.)


We follow with the association between events and melodies (numbers from 1 to 5).

- Reception of a command to be stored: 2 (i.e. melody 2 is carry out/ max. 15 tones).
- Repetition (every minute for the programmed number of times) of a programmed command: 2
- Reception of a command not to be memorized: 2 (stop at the 3rd tone)
- Reception of an external call: 3
- Pressure of Scrolling Menu push-button: 4 (stop at the 3rd note)
- Pressure of Menu push-button signalling the last scrolling: 4
- Pressure of INT/EXT push-button: 4 (stop at the 2nd tone).
- Wake up services: 1
- Sound every quarter of an hour: 5 (stop at the 2nd tone)
- Clock sound (repeated every hour): 5

Mind that the sounds for the command reception are activated by parameter "Abil. Suoni" (Sound enable) (0=mai (never), 1 only for Int mode, 2 = Int and Ext mode).

Pay attention that the audio has not been excluded by pressing R+3 push-buttons (if the audio is not excluded the loudspeaker icon appears on the right hand side of display; to exclude it press R+3 again).

#### TO LISTEN TO/SHORTEN THE MELODIES:

Pressing R+\*  " the request of the melody number, to be listened to, appears on display:

#### N. SOUND (1-5) ?

1=RING; 2=C\_UP; 3=C\_DW; 4=KEYB; 5=TIME

Pressing a push-button (from 1 to 5) followed by C the corresponding melody is activated with the request of the tone number to which it should be limited (the maximum time dwell according to the melody appears at the bottom, on the right hand side the present number to which is limited). Inserting a number >= to the maximum proposed, no limitation is applied.

NOTE: The stroke limitation is used to reduce the melody time dwell when it is too long.

#### DOWNLOADING A NEW MELODY:

There are two possibilities:

- 1) With proper software through serial interface. The software consists of a musical composer used to compose/copy the melody, coupled with a software which allows you to download the melody inside the switchboard at the required position (i.e. it is possible to modify a single melody).
- 2) Copying all the 5 melodies from another memory 24C02 connected to the strip for IIC. Pressing push-buttons R+INT/EXT the melody downloading in an external memory is activated (IIC ADDR. 160), pressing R+INTROMISS the programmed melodies are downloaded from an external memory (only in case it has already been programmed). In these cases a "wait" message appears, during which the memory interface must not be disconnected (nearly 2-3 seconds).

#### MEANING OF THE MAIN TECHNICAL CHARACTERS

- **Numero Taroa (Entrance panel number):** it is the digibus number assigned to the switchboard (to allow a numerical call toward the same switchboard, for example from another switchboard or from a secondary entrance panel).
- **Numero digit (Digit number):** it allows the selection mode to use 4 or 8 digits. Select according to the type of installation.
- **Chiave blocco Software (Software lock key):** to lock keypad (see above)
- **Num.Rip.Chiamate (Call rip. number):** It is the number of times you want the call sound to be repeated (consequent to a memorization).  
It is going to be repeated every minute for the programmed number of times.
- **Abil.Suoni (Sound enable):** It allows you to decide if and when to activate the melodies. If set to 0 the melodies are excluded, if set to 1 the sounds are produced only at reception of commands if set to INTERNAL mode (I on the right hand side, i.e. when the operator is present). If set to 2 the melodies are produced either in INT mode either in Ext mode (by night). If set in Ext mode the melody is never repeated more than once.
- **Set Stampante (between the reserved parameters):** Particular parameter which allows you to select some printing modes.