



Manuale di Programmazione
Distributore automatico

Mod. **Esna/Eurosnacky**



Programming Manual for the
Vending machine

Mod. **Esna/Eurosnacky**



Programmierhandbuch
für Warenautomat

Mod. **Esna/Eurosnacky**



Manual de Programación
distribuidor automatico

Mod. **Esna/Eurosnacky**



Manuel de programmation
du distributeur automatique

Mod. **Esna/Eurosnacky**



Programming Manual for the vending machine model "Esna/EuroSnacky"

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04		
05		
Signature		



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INTRODUCTION

The vending machine model Esna/EuroSnacky is provided with a software which allows to visualize and set a wide range of parameters and functions in a clear and easy way. The programming operations are performed through the display and the keyboard generally used for selection of products. In the programming mode (see para. 1.1) the function of the keys will be different and the display will allow to visualize the parameters to be modified.

1. SETTINGS

1.1 PROGRAMMING MODE

In order to have access to the operating parameters it is necessary to get into the programming mode through the “service” push-button located in the electronic card.

In order to get back to the normal operation mode, you have only to press the key ⑦, after ~90 seconds without pressing any push-button, the machine will automatically get out of the programming mode.

In the programming mode the display will visualize:



The function of the keys used is the following:

- Key ① : ↓ Allows to scroll the menu of functions / increases the values
- Key ② : ↑ Allows to scroll the menu of functions / decreases the values
- Key ⑥ : **Enter / Save** Allows to get into a sub-menu and to confirm any modification
- Key ⑦ : **Esc** Allows to get out of a previously selected menu
- Key ⑧ : **Reset** Allows to reset the value of a visualized parameter

1.2 COUNTER OF DISPENSED PRODUCTS

The machine is provided with two counters, **CCII** e **CCtt**, to count the number of products dispensed from each shelf.

CCII stores the number of products dispensed cash.

CCtt stores the number of products dispensed with payment through credit key.

Select the counter to be visualized (ex. CCII) using the keys ① and ②.


The display will visualize:



C C I I

Press the key ⑥ and select, through the keys ① and ②, the counter of the shelf to be visualized (ex. shelf no. 6).

The display will visualize:



C 6

In order to confirm the selected counter, press again the key ⑥.

The display will visualize the number of dispensed products:

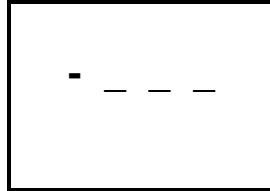


X X

The visualized counter can be reset by pressing ⑧.

In order to prevent any unwelcome resettings or to establish an access restriction, the resetting operation may be subject to a password. In order to set a password, please refer to para. 2.1

The display will visualize:



Type in the password, consisting of four figures. If the password is not typed in correctly, the display will show the value of the previously visualized counter. To confirm the operation and get back to the previous menu, press Ⓢ. In order to get out of the programming mode press Ⓣ.

Follow the above mentioned procedure, selecting "CCt", to visualize the counter of dispensed products with payment made through key systems.

1.3 PRICE SETTING

The selling prices of products can be programmed independently for each shelf. Also, it is possible to separate the prices of products purchased cash (**PPII**) from the prices of products purchased through credit key (**PPtt**). If no key payment system is installed in the machine, it is not necessary to set **PPtt** . The price setting is made in both cases in the same way.

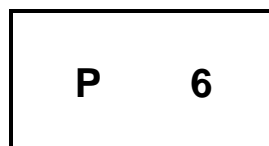
Select the price menu to be programmed (ex. **PPII**) using the keys Ⓛ and Ⓜ.

The display will visualize:



Press to key Ⓢ and select, through the keys Ⓛ and Ⓜ , the shelf where the price should be modified (ex. shelf no.6).

The display will visualize:



In order to confirm the selection, press again the key Ⓢ.



The display will visualize the previously set price, that can be increased or reduced by increases equivalent to the value of the lowest value coin programmed (see para. 1.5), using again the keys ① and ②. In order to reset the value press ⑧.

Once the desired price has been reached, press ⑥ to save the setting. Follow the above mentioned procedure to set the prices of all the shelves to be modified.

Press ⑦ to get back to the starting menu PPII.

1.4 CURRENCY SETTING

The currency setting allows to fix a scale factor to visualize the credit. This option allows to use the vending machine with most of the existing currencies. In fact, 8 options are available (0.01 - 0.05 - 0.1 - 0.5 – 1 – 5 – 10 – 50) among which the minimum coin value to be used shall be identified.

The scale factor selection determines the increase value through which it will be possible to set the prices (PPII - PPIt) as well as the correct visualization of the counters (CCII – CCtt - tttt).



In all the machines delivered complete with payment systems the proper currency has already been set.

In order to modify the currency setting, in the programming mode, select the parameter EEEE using ① and ②.

The display will visualize:

Press then the key ⑥ to visualize the scale factor value that has been previously set (ex. "1"):

The display will visualize:

Using ① and ② select the value to be set. To confirm the choice and get back to the previous menu press ⑥. In order to get out without modifying the present setting, press ⑦.

Example: Regarding the Euro, the lowest value coin generally used is the 5 cent. Therefore, the value of EEEE shall be set to 0.05. This value will allow to set the product prices with an increase/reduction of 50 cent of Euro.

1.5 SETTING OF COIN ACCEPTOR LINES

In order to interface correctly a coin acceptor with the vending machine it is essential to program the parameter "LLLL". Through this setting, a value to the input lines to be used for payment systems is added. There are 6 lines for the electronic acceptor (L1 + L6). In this connection, it is essential to know the type of programming of the payment system to be used.



Before proceeding with programming of the lines, the currency value (EEEE) para. 1.5. must have been put in.



In all the machines delivered complete with payment system, programming of the coin acceptor lines has already been made.

In order to modify setting of the coin acceptor lines, in the programming mode, select the parameter LLLL using ① and ②.

The display will visualize:



L L L L

Press the key ⑥ and select, through the keys ① and ②, the line where the value should be modified (ex. line 2).

The display will visualize:



L 2

Press then the key ⑥ to visualize the value that has been previously set (ex.0.10):

The display will visualize:

0.10

Using the keys ① and ② it is possible to modify the value of the visualized line. Should it be necessary to reset the value, press the key ⑧. In order to confirm the modification and get back to the previous menu, press ⑥. To get out without modifying, press ⑦.

As mentioned in the user's manual, coin acceptors with output type "Pulse" or "Parallel" can be used indifferently. In both cases programming of lines is the following:

A) Programming of payment systems with output type "Pulse".

Should a coin acceptor with "pulse" output be used, the line 3 (L3) shall be programmed with the value assigned by the line itself to the pulse (check the features specified by the manufacturer). The other lines (L1 – L2 – L4 – L5 – L6) shall be set to zero. In this mode, on each of the pulses coming from the coin acceptor, the value set on "L3" shall be credited.

B) Programming of payment systems with output type "Parallel"

Should a coin acceptor with "parallel" output be used, it is necessary to program all the lines (L1 ÷ L6) with the respective value (check the features specified by the manufacturer). The non-used lines shall be set to zero.

Example: In order to interface a coin acceptor in Euro having the following configuration:

CH1=0,05 €; CH2=0,10 €; CH3=0,20 €; CH4=0,50 €, it is necessary to program the machine as follows: L1=0,05; L2=0,10; L3=0,20; L4=0,50; L5=0; L6=0.

1.6 SETTING OF REMAINING CREDIT PERSISTENCY

Any credit resulting from a sale cash can be used in two different ways: leaving the remaining credit for the following sales; eliminating the remaining credit. In the latter case, the value will be cashed and entered by the counter "rES"(see para. 2.0). Should the first option be chosen, it is possible to fix the persistency time of remaining credit.



All the machines are supplied with a remaining credit persistency time infinite (buCr=240)



In order to set a different credit persistency time, in the programming mode, select the parameter “buCr” using ① and ②.

The display will visualize:

b u C r

Press then the key ⑥ to visualize the value that has been previously set (ex. 120 seconds):

The display will visualize:

1 2 0

Using ① and ② select the value to set. In order to reset the value press ⑧.

To confirm the choice and get back to the previous menu, press ⑥. To get out without modifying the present setting, press ⑦. The following table summarizes the different possibilities:

buCr	Remaining credit persistency time
0	Null
1 ÷ 239	Included between 1 ÷ 239 seconds
240	Infinite

Also in the multiple sale mode ($1 < \text{buCr} < 239$) any non-used remaining credit will be entered by the counter “rES” (see para.2.0).

1.7 ACCOUNTING

The electronic card of the machine stores all data relating to collected amounts and sales. These data are at operator's disposal through some counters. In order to visualize them, in the programming mode, select the parameter “tttt” using the keys ① and ②.

The display will visualize:

t t t t



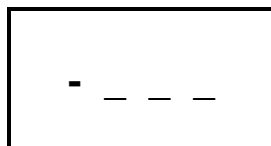
Press the key ⑥ and choose, through the keys ① and ②, the counter to visualize (please refer to the table here below).

The counters may be reset singly by pressing the key ⑧.

In order to confirm resetting and get back to the previous menu, press ⑥. In order to get out without modifying the counter, press ⑦.

In order to prevent any unwanted resettings or to establish a restriction of access, the resetting operation can be subject to a password. In order to set a password, please refer to para. 2.1.

In this case the display will visualize:



Type in the password, consisting of four figures. If the password is not typed in correctly, the display will show the value of the previously visualized counter. To confirm the operation and get back to the previous menu, press ⑥.

The parameters of the available counters are shown in the table here below.

Item	Description	Limits
ICt	Total amount collected in local currency	0<ICt<9999.99
ItP	Credits given to transponder key or chip card	0<ItP<9999.99
StP	Sales made through transponder key or chip card	0<StP<9999.99
SEL	Sales made cash	0<SEL<9999.99
rES	Total amount collected of remaining credit	0<rES<9999.99
tSP	Non used	n.u.
rIC	Non used	n.u.
CIC	Non used	n.u.



1.8 PASSWORD SETTING

The password setting allows to have a restriction to some functions of the machine. More exactly, in a machine where the password has been set, it is not possible to reset the counters of dispensed product (CCII – CCtt) and of accounting (tttt). The password consists of a sequence of four figures, each included between 1 ÷ 9. The default password is 1234, it can be changed using the windows app PvVMC.exe.
PS. If the password is changed all counters (CCII – CCtt) and (tttt) will be reset automatically.

1.9 SETTING OF MDB PROTOCOL

As mentioned in the user's manual, the machine can be connected with key payment systems (transponder – chip card). In this case, for the required interface two communication protocols are mainly used: "EXECUTIVE" and "MDB".

In the machine the MDB protocol is used.

To know manufacturers and models to be used, please get in contact with the technical assistance centre.

To set the MDB protocol it is necessary to use the windows program PvVMC.



The MDB protocol is supported by an optional interface card, to be asked for when purchasing the machine.

1.10 SETTING OF STORAGE FUNCTION

As mentioned in the user's manual, it is possible to start the storage function counting the dispensed products. Knowing the maximum number of products to be dispensed from each shelf, this option allows to disable such shelf if no more products are available.

Therefore, in order to start up the storage handling, it is necessary to assign to each shelf the maximum number of products that can be included.

Select from the programming menu the parameter "coL" using the keys ① and ②.

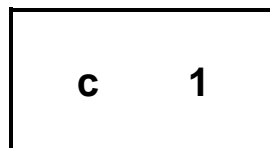
The display will visualize:



c o L

Press the key ⑥ and select, through the keys ① and ②, the first shelf to set the relevant configuration (ex. shelf no.1).

The display will visualize:



c 1

Confirm the selection pressing the key ⑥. The display will visualize the previously set value. Through the keys ① and ② set the correct value, then press again ⑥ to save. Should it be necessary to reset the value, use the key ③. Set the values of the remaining shelves following for each the above mentioned procedure. Press ⑦ to get back to the starting menu.

If a customer selects a shelf where there are no more products, the display will visualize:



SOLd

At this point, another shelf can be selected.

1.11 STORAGE INVENTORY

If the storage function as described in item 2.4 is started, it is essential to perform, on every refilling of the machine, an inventory operation that restores the storage counters informing the machine of the refilling. To this purpose, **it is necessary to refill completely every shelf subject to the storage function** otherwise it will not be possible any more to check the machine product stocks.

In order to carry out the inventory operation, after filling the shelf involved, in the programming mode, select the item "IIII" from the main menu through the keys ① and ②.

The display will visualize:



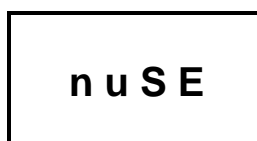
Then press the key ⑥ and select, through the keys ① and ②, (yes – no) to proceed, or not, with the inventory. Confirm the choice and get back to the previous menu through ⑥. In order to get our without modifying, press ⑦.

1.12 SETTING THE NUMBER OF SHELVES

In the menu **nuSE** you need to set the number of shelves present in the vending machine.

Select such menu using the keys ① and ②.

The display will show the message:



Press ⑥ to change the parameter.

The display will show the number of programmed shelves (12 by default):



Through the keys ① and ② increase or decrease such value up to the required value. Press ⑥ to save.



2. ERROR MESSAGES

Wrong programming operations or some of the most dangerous troubles are signalled by the machine display, thus allowing to take proper steps in good time.

The table here below summarizes some of them.

Error	Cause	Effect	Possible Solution
<i>Er 1</i>	Breakage of self-stoppage of a motor or motor jammed.	All the selections are disabled.	Replace the damaged motor or remove the cause of stoppage. Switch off and restart the machine.
<i>Er 2</i>	One or more product dispensing motors cannot work.	The selection where the trouble has occurred is disabled. The machine continues working regularly.	Replace the non-operating motor. Switch off and restart the machine.

3. OPTIONALS

3.1 RC FUNCTION

RC (Remote Control) allows a remote payment system to control Esna/Eurosnacky to deliver two different product channels, and to stack more spirals per single product (See optional manual).

3.2 RC6 FUNCTION

RC6 allows a remote payment system to control 1 to 6 selections driving six different normally open relays (see next figure schematic).

