cash registers LC line

POINT
SR100
VELVET
NESSO

U s e r   M a n u a l

INDEX

Оглавление

FOREWORD

This manual is for users of the product.

The manufacturer reserves the right to make any changes necessary to the technical characteristics of the ECR without notice. The functions and programming described refer to standard products available at the time of printing. Any additional functions will be described in special *addendum* pages which may be added on.

In this manual are described the fiscal functions according to the Italian fiscal regulation. They can be changed in accordance with the regulation of the Country where the cash register is sold.

The technical manuals of Ditron products are only available to Authorised Technical Assistance Centres.

The product described in this Manual is named as: *Nesso, Point, Velvet, SR100*

1 GENERAL ADVICE

This manual contains instructions for the correct use of the cash register and programming. Read carefully before using the machine.

The ECR must be placed on a stable, horizontal surface. Ensure that the customer display is perfectly visible, and check the mains cable frequently.

Extraordinary maintenance and any repairs must be carried out only by an authorised technical assistance centre.

The manufacturers decline all responsibility if any work is carried out by non-authorized technicians or non-original parts are used.

Do not interfere with internal workings of the ECR, even if it breaks down. Do not interfere with or remove the fiscal seal. Only authorised staff at the Authorised Assistance Centre may do this.

2 FISCAL OPERATIONS

Ditron cash registers are type-approved as cash registers by the MINISTRY OF FINANCE and conform to the requirements of Italian law 18 of 26 January 1983 and all subsequent legislation.

2.1 FISCAL RECORD BOOKLET

The ECR comes complete with its "Fiscal Record Booklet" which complies with the requirements of the law and which must be kept carefully, as it is a legal part of the ECR itself.
The following information must be recorded in the fiscal record booklet:

```
by the authorised technician        Installation data
                         subsequent maintenance work

by the user            Data and time of requests for technical assistance
```

Should the booklet be stolen or lost, the event must be reported immediately to the police and request should be made to the suppliers for another copy.

2.2 FISCAL MEMORY

The fiscal ECR comes with a fiscal memory where the day's sales are recorded at the end the day. The memory is sealed with a led seal. It also has special control lines for the Electronic journal which comes with the machine.

There is also a control device for use of the operator which indicates the imminent overload of the fiscal memory.

Around 100 days before the fiscal memory fills up, the following message appears: **ZEROING. AVAILAB XX.** It shows the number of zeroings which can be carried out. The message *** F:M. FULL *** means that no more data can be recorded.
Upon seeing the first message, contact Assistance.

3 THERMAL SLIP PAPER

The law states that type-approved slip paper must be identified by the symbol of the paper manufacturer's which must appear on the reverse side of the paper at a distance of 5 mm from the next one for the whole length of the roll.
Along one margin, for the whole length of the roll, the details of certification must appear, along with the expiry date (after which the paper can no longer be used) which must be within five years of production. The details of certification and the expiry date must be specified as follows:

a) acronym (max 4 characters) of certifying body
b) certification number and year of issue
c) expiry date (mm/yy) preceded by "EXP".

STORAGE INSTRUCTIONS FOR USERS.

The thermal paper with relevant information must be kept in an opaque container made of material which does not damage the paper. PVC may not be used and the temperature may not exceed 35°. Relative humidity must not exceed 80%.

Use slip paper with a mark which indicates that the roll is about to end.
The paper must not come into contact with solvents such as alcohol or ether.

The roll must be of the following specifications:

width:	58 mm
max external diameter:	30 mm

4 INSTALLING THE PRODUCT

The machine must be placed on a stable surface far from sources of heat or electromagnetic noise.
Check that the peripheral connections (keyboard, display etc.) connected to the ECR are not a hindrance to normal sales operations. Check that they are not near live cables, especially if they are heavy duty.
Ensure that the system is earthed. If this is not the case, the machine may not work. The ECR requires monophase AC at 230V, 50 Hz (min.90V max. 264V AC for all models except ZIP and SAMRT258: min. 100V max 240V AC with external power supply).
Failure to earth will result in the manufacturer assuming no responsibility for damage.
Do not connect the ECR to circuits powering heavy duty machinery (fridges, motors in general).
Regular checking of the power cable and all the cables connected to the machine help guarantee the safety of the operator as well as the good operation of the machine.
Any accessories connected to the machine MUST be approved by the manufacturer and operated by qualified personnel using documentation which is ONLY available to Ditron Assistance Centres.

The manufacturers decline any responsibility for damage or improper functions in the event that the above recommendations are not respected.

The installation of all devices which issue fiscal receipts MUST be carried out by Authorised Personnel possessing appropriate identification and stamp to validate the fiscal seal which protects the ECR.

4.1 CLEANING

The ECR requires no particular maintenance. If local conditions make it necessary, the case may be dusted weekly using a soft cloth. The screens may be cleaned using dust repellent products.
Do not use abrasive solvents or detergents. Never spray directly onto the machine itself, but use a cleaning cloth if necessary.
A damp brush may be used to remove dirt clogging the keyboard.

5 PRODUCT DESCRIPTION

The product described in this Manual is: *Nesso, Point, Velvet, SR100*
The machine includes:
 * the mainboard,
 * the fiscal memory,
 * the 58mm thermal printer (easy loading),
 * the keyboard:
     - 30 keys keyboard (for Nesso and Point),
     - 33 keys keyboard (for Velvet/SR100),
Operator and customer display
     - 2 numerical LCD for operator and customer (for Nesso)
     - 2 backlight alphanumerical LCD 1 line with 16 characters for operator and customer (for Point, Velvet/SR100)
 * connection to the cash drawer

- one serial port for connection to personal computer.

The power comes through an external adapter
 100/240 Vac input 9 VDC 2 A output.

Operated battery version is available. In this case a "battery pack" of 6 NimH batteries 1,2 Volt min.1200 mAh (2000 mAh advised) and a recharging board are mounted.
The "battery pack" holder is placed on the bottom of the ECR base protected by a small door. In this area there is a special slit for the electronic journal MMC.

Technical characteristics:
- Power supply: external adapter. min.100V max 240 V AC, 0,5 Amp
- Frequency : 50/60 Hz
- Temperature : 0-40 °C ; Umidity: 10%-90%

5.1 Printer Description

The printer is real gem of electronic and mechanical engineering, and includes the latest and most advanced technological solutions available on the market today.

The most important innovation is called "easy loading"(*): it makes it possible to replace the receipt paper roll in only few seconds and with one just one hand!
The thermal paper receipt roll is of the type required by the fiscal law with a maximum size of : 58 X 30 mm (Wx Diameter).
The number of printable characters per line is: 24 characters.
The size of the standard character is 2.5mm.

5.1.1 When the paper runs out
The paper roll has a red band indicating that the paper is running out.
Special sensors inside the printer case detect that the roll is running out and stop the cash register by means of:
- Beep => A long beep indicates the fault due to the lack paper
- Message on the display:

```
ERR. 22
R-PRINTER ERROR
```

5.1.2 Changing the roll
 The paper roll is located inside the printer top cover. Thanks to this system, the paper roll can be inserted very easily, by simply resting it in its holder.

To replace the paper, you must:

- Switch off the appliance
- Open the paper case by releasing the printer cover.
- Remove the bore of the old roll and any paper left inside the case.
- Place the new paper roll inside the case.
- Close the door until it clicks, making sure that the corner of the paper comes out

5.1.3 Description of the receipt slip

The appliance has been designed to issue receipts which can meet all management and fiscal needs. The following example shows the main areas included in a receipt:

```
        COMPANY NAME

          ADDRESS

       VAT reg. no.


                       EURO
COFFEE                 0.85
PASTRIES               1.45
MINERAL WATER          0.52

SUBTOTAL               2.82
TOTAL €                2.82
CASH                  10.00

CHANGE                  7.1

#14    REG. 001   OP. 1
08-05-2003           13:11
       MF TN45999999
```

Receipt heading

Products description

total in Euros

change calculation

date and time
tax registration number

6 ELECTRONIC JOURNAL

Another innovation in the latest generation of Ditron products is the electronic journal device known by the acronym EJ. This system (which is authorised for Ditron products in accordance with measure 2002/86360 of the Tax Revenues Office) allows financial data on daily sales to be recorded in an electronic memory rather than on a form containing the copy of sales transactions, as it is done in models with two print stations. This system is now available to all Ditron clients using NESSO model, and is set to revolutionise the IT retail world.

6.1 Characteristics

The new products in the Ditron line are equipped with a device that stores each day's receipts, called the electronic journal. Therefore, any relevant financial data that was previously printed on paper will now be sent to a device containing an unalterable unit of electronic memory. The fiscal data will be sent and checked directly by the appliance.

6.2 Advantages

This system offers the user a number of advantages:

- ✓ Saving on the cost of receipt-paper rolls;
- ✓ Drastic reduction in space required for the storage of fiscal documents. Of course paper rolls that are put aside after audits take up a considerable amount of space. They are bulky, heavy, and have to be stored carefully, away from direct sunlight or heat. The electronic journal devices look and feel like a small plastic box, the size of a matchbox.
- ✓ Easier paper replacement; no paper roll spool to which the paper roll was attached for storage of the paper ledger means that paper replacement is simplified, making for ease and speed in any work situation.
- ✓ Saving on paper means environmental protection - reducing cellulose waste helps preserve forests which are part of the *World Heritage List*.

6.3 Features and protection

The *Ditron standard* electronic journal has a memory capacity of 32Mb. The producers reserve the right to make memories of greater size if this should be necessary for technical reasons.

In the electronic journal device, several protection features have been incorporated to prevent damage and involuntary modification of data.

When it is switched on for the first time, and every time the EJ is replaced, the appliance carries out a recognition procedure on the EJ. During normal operation, all sales and data that are traditionally recorded on paper, are recorded in the EJ.

Special check characters together with an algorithm called the "fiscal seal" and other parameters such as date, time, the ECR registration number are memorised every evening, at the close of trade, both in the EJ and in the fiscal memory.

Whenever the device is not connected, not working properly or is blank and has not been initialised or has already been initialised by other ECRs, the appliance jams, emitting an error message, and remains unusable until it is made operational again.

The error messages that the appliance emits, together with the explanation and corrective measures will be listed in sect. 6.7 of this manual.

6.4 Setting up the electronic journal

As well as the normal installation and fiscal procedures carried out by an Authorised Technical Assistance Centre, the use of the EJ model appliance as a cash register requires an EJ set up procedure.

The appliance comes with a new, blank *EJ*. In order to use it for fiscal purposes, the initialisation procedure needs to be carried out. This procedure is also necessary **every time** a new *EJ* is connected to the appliance.

It is important to remember to always have a spare *EJ* available in your retail outlet. The cash register will not work when the EJ runs out or is missing, just as a traditional appliances cannot work without a ledger roll.

N.B. *The EJ initialisation procedure can only be started if the appliance has been prepared for fiscal use by the Technical Assistance Centre.*

6.4.1 Initialisation Procedure

To begin initialisation of a new *EJ,* proceed as follows:

Select the programming sequence:	**4** => **KEY**	
Type:	**3152**=> **TOTAL**	
The Operator Display will show the following wording:		

```
INITIALISE. EJ
CONFIRM ?

EJ INITIALISED
```

At this point, the printer will produce an administrative receipt bearing information important for data storage and retrieval, and **which must be put onto the label applied to the external case of the EJ itself**.

```
           INITIALISE. EJ
    COD.01 032M 07-05-07   09:52
```

Cod.01	= EJ serial number
032M	= EJ memory capacity
07-05-03	= EJ start date

Sample receipt

6.4.2 EJ label

As mentioned in the previous paragraph, a label has been attached to the external case of the EJ. This is intended for identification and storage of data in the electronic journal.

We would remind the user that he is required to keep all *EJs* used for possible financial inspection. For this reason, the Law requires these to be catalogued by date and numbered in order.

Memory Capacity EJ
Serial Number (COD) EJ
Appliance model
Serial Number appliance
Start date period of EJ use
End date period of EJ of use

Sample EJ Label

6.5 EJ Control Procedures

One of the advantages of having an EJ is being able to decide which data (relating to sales in a particular period) to reprint, and when to do so (for example, at the end of the month for sales statistics, or the following year for an audit).
Access to reprinting data contained in the EJ is very simple, and is carried out like a normal reading of the receipt items using the keypad of the Cash Register.

6.5.1 EJ Reprint

To carry out a reprint of the EJ, simply:

Select the programming sequence : **4** => **KEY** and then input the code: **160** or **166** => **TOTAL**. In case of 160 on the display, the current date will be proposed as the start date *Set date => dd/mm/yy* and confirm => **TOTAL.** The end date appears on the Display (the same date). *Set the date* and confirm => **TOTAL**	**FROM** **09-05-07** **TO** **09-05-07**

In case of 166 on the display, the current date will be proposed as the start date and the 00:00 time as start time *Set date and time => dd/mm/yy hh:ss* and confirm => **TOTAL.** The end date (the same day) appears on the Display and then the 23:59 will be proposed as end time. *Set the date and time* and confirm => **TOTAL**	**FROM** **09-05-07** **TIME** **00:00** **TO** **09-05-07** **TIME** **23:59**

If the chosen start and end date are the same day, it is possible to carry out an even more selective research.. The appliance will ask you to select the receipt/s (number range) that you wish to reprint.

Select number => *n…* and confirm : => **TOTAL** . Select number => *n…* and confirm : => **TOTAL** . If you leave the number "**0**" all receipts will be reprinted.	**FROM REC. N.** **1** **TO RECEIPT. N.** **19**

NOTES

In the interval selected between different dates, ALL receipts are printed (both fiscal and non fiscal) grouped by fiscal resetting. These data are validated by their correspondence to three check characters called the *SEAL*.

If the selected interval includes the current date, data relating to that day are printed too. However, since the reset has not yet been carried out, this data is not protected by the triple seal and so the user can only use this data for personal inspection.

If the reprinting of certain receipts (from number x to number y) within the same day is selected, this reprint will only include fiscal receipts. The triple seal will be printed for each reset in this case too.

   IMPORTANT : The reprint can be interrupted at any time by typing => **C**

6.5.2 Example of electronic reprint slip

```
            COMPANY NAME
               ADRESS
             TAX NUMBER
          ---------------
           NON FISCAL

EJD REPRINT

S.N.    TN45999999
 FROM  09- 05- 2007
  TO   09- 05- 2007
 FROM RECEIPT. N.3
 TO   RECEIPT. N.5

      ==================
                         EURO
                         1.00
DEPT 03
TOTAL            1.00
CASH
#7  REG. 001          OP.1
09-05-2007       12:27  SF.3
      ==================
                         EURO
                         1.00
DEPT 03
TOTAL            2,00
CASH
#8  REG. 001          OP.1
09-05-2007       12:27  SF.4
      ==================
                         EURO
                         1.00
DEPT 03
TOTAL            3.00
CASH
#9  REG. 001          OP.1
09-05-2007       12:27  SF.5
----------------------
    SEAL: 9610-9610-9610
----------------------
```

6.5.3 Setup electronic journal tables

A simple command allows the user to obtain a printout of a list of all the *EJs* initialised by each cash register. This function is very useful for keeping an archive of your own electronic journals updated and accurate, and is obtained as follows:

In Programming mode => **4 => KEY** with the sequence : => **180 => TOTAL**

```
           NON FISCAL
LIST EJ INITIAL.
==============================
COD. 01   032 M    08-05-03   15:15
COD. 02   032M     10-10-03   19:30
COD. 03   032M     12-12-03   15:18
```

6.5.4 Print of EJ data for fiscal zeroing

As previously mentioned, since the specific checksums for the *"EJs"* called SEAL are written both in the flash memory of the EJ itself and in the fiscal memory of the appliance, the end-of-day fiscal zeroing printout also shows the initialisation data for the *"EJ"*. The information shown is the following:

code .. date .. time .. no. (if any) of residual zeroing allowed by the EJ inserted, if this number is less than 100 (a similar indication is displayed on the alphanumerical display).
At the bottom of the receipt the Fiscal seal relating to the data for that zeroing is printed.

```
EJ INITIALISATION:
CODE: 01
DATE . 08-05-07   15:15

        MF TN  45999999

EJD: REZ. ZEROINGS  80

SEAL: 950A
```

6.6 Completion and substitution of electronic journal

As briefly mentioned earlier, it is absolutely impossible to produce fiscal receipts when the memory capacity of the electronic journal appliance is full.
At this point, there are various checks that indicate the need to replace the *EJ* starting 99 zeroings before it actually runs out!
The only thing to do in this case is to get a new EJ *immediately*, in order to be ready to replace it when necessary.

6.6.1 When the electronic journal is full

When the number of residual zeroings in the EJ **equals one**, the device's memory could become full during usual cash register use, that is while fiscal receipts are being produced.
In this case, an error signal on the display and a prolonged beep will warn the user that the EJ has run out and the only procedure permitted at that point is fiscal zeroing.
From that moment onwards it will no longer be possible to continue with sales on that EJ, and it will be necessary to initialise another one (see Section 6.6.1).
The EJ that has run out will have to be marked and stored away (see *Sections.6.9.2*), since it will still be possible to make reprints from it (see Section 6.7.1).

6.6.2 Replacement of electronic journal

Electronic journal has to be changed when it signals about run out.
Replacement of EJ is a routine but it should be executed successively with special attention.
We suggest you to follow the instructions listed below:

EJ replacement

1. Carry out the fiscal closure of the *EJ* that has run out of memory.
2. Switch off the appliance and open the battery case on the bottom of the appliance
3. Remove the full device from its position
4. Fill in the label with the serial number and start date of use of the new device.
5. Insert the new device paying attention to the direction of insertion: visible golden contacts and the MMC passing through the guide (see image).
6. Close the battery case
7. Switch on the appliance and initialize the EJ
8. Complete the end date of use for the electronic journal that has run out and store it carefully..

6.7 Specific electronic journal error signals

In the case of EJ-specific anomalies, and also of operational errors on the user's part, as far as the specific procedures of administration of the electronic journal are concerned, the firmware of the appliance provides a series of error indications.

These indications are self-explanatory and are as follows:

```
Err. 83
E.J. ERR.
```

This message refers to two possible cases:

1. Indicates EJ-specific failures,
2. EJ not recognised (*Example: the EJ of another appliance is inserted*)

```
Err. 84
EJ MISSING
```

The electronic journal device has not been inserted.

```
Err. 85
EJ BLANK
```

This message appears when there is an attempt to produce a receipt or perform any other operation before the EJ has been properly initialised.

```
Err. 86
EJ FULL
```

This message appears when the EJ is full, and fiscal zeroing is the only operation permitted. It also appears when an attempt is made to work with a EJ different from the last one to be initialised on that appliance.

15

7 OPERATOR DISPLAY, KEYBOARD; CUSTOMER DISPLAY

ECR includes the keyboard and the displays in the machine.
Nesso and Point keyboard is constituted by 30 keys which allow access to the sales, reading, resetting and programming functions. A special guide leads the user through the operations.

Velvet/SR100 keyboard is constituted by 30 keys which allow access to the sales, reading, resetting and programming functions. A special guide leads the user through the operations.

The keyboard configuration can be customised according to the user's needs, which means that the number of keys can be increased or reduced at leisure. The latter function, which modifies the overall functionality of the appliance, can only be implemented by calling technical assistance.

7.1 Main Keys

Number Keys

The keys **0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 00, 000** are used for the normal entering of sums or codes. They also allow access to the alphabetics.

Special Keys

The keys **TOTAL, SUBTOTAL** and **CREDIT** are used to simplify the programming and for zeroing the appliance.
In the reading, zeroing and programming positions, and for some registering functions, they take on the following meaning:

SUBTOTAL =>   **SELECT**   (selection of one of the menu items)
TOTAL   =>   **CONFIRM** (accepting the selection)
CREDIT   =>   **END**   (end of operations)

MODE key

It is possible to set the appliance in five different ways through the MODE key. In order to obtain the different positions, it is necessary – with the appliance switched on – to press keys **1, 2, 3, 4,** before pressing the MODE key. This way the appliance will start in one of the following settings:

◊   POSITION **OFF.**
    Position OFF disactivates the appliance. With the appliance switched on – simply press the MODE key. To restart the appliance, just press again.
    .
◊   POSITION **REG.**
    The REGISTER position is set by pressing keys **1** and **MODE** in sequence. This position allows all the routine functions of sales and storage to be performed.
◊   POSITION **X**
    The READING position is set by pressing keys **2** and **MODE** in sequence. This position allows us to perform all readings retrievable at any time of the day.
◊   POSITION **Z**
    The CLOSURE position is set by pressing keys **3** and **MODE** in sequence. This position allows us to perform end-of-day zeroing and to reset all the serial numbers of the cash register; it also provides a printout and the zeroing of totalisators. Note that this position is used for the daily closure.
◊   POSITION **P**
    The PROGRAMMING position is set by pressing keys 4 and MODE in sequence and allows access to appliance programming.

SECRET CODES FOR POSITIONS : **X , Z and P**
To prevent involuntary or unwanted zeroing and programming caused by unauthorised users, it is possible to introduce a key sequence (secret code) that can block positions **X , Z** and **P** .
For further details on this operations, see the section on "**Programming secret codes**".

7.2 Key Description

.   Decimal point.

X   Multiplier for quantities.

Price   Double function: displays the price of an item or permitss a change (for the current keystroke) in the price of an item/department.

Function   Recalls some functions not directly accessible from the keyboard.

Cash flow.   Opens a menu with further cash and accountancy operations.

PLU   Retrieval of a PLU (an item with descriptor and pre-determined price).

% A, % B   Discounts or increases in % on an item or on the subtotal.

Credit Card   Payment by credit card.

Cancel   Cancellation of one of the previous sale lines.

Avoid receipt   Cancels the previous transactions, bringing back the receipt total to zero.

C   Corrects setting and exits error messages.

Credit/End   Credit to Customer. Exit from programmings.

Subtotal/Choice   Displays and prints the subtotal. If pressed twice, it displays the number of items sold. It starts further choices in the menus.

Total/Confirm   Transaction closure with cash payment. Confirms the item chosen in the menu.

DEPT1 ... DEPT4 Department keys for the functions of sales by departments.

7.3 Operator Display description

Nesso model has a numeric LCD display with one line with 12 characters while Point, Velvet and SR100 have alphanumeric backlight LCD display with one line of 16 characters.
The left part of the line is used for short descriptions and messages, the right part of the line displays amounts as they are calculated or entered by the operator.

Indications during the sale transaction

PRODUCT DESCRIPTION   AMOUNT

| 0 | 1 | 5 | | | | 1 | 2 | , | 5 | 0 |
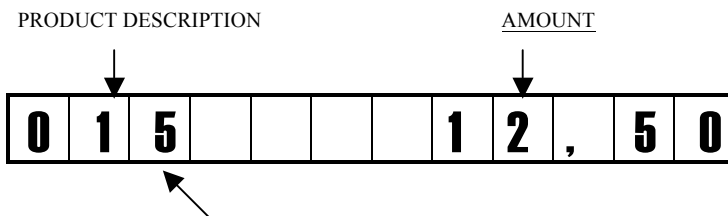
Indications during the receipt closure

CURRENCY   TOTAL AMOUNT

| E | u | r | | | | 2 | 7 | , | 0 | 0 |
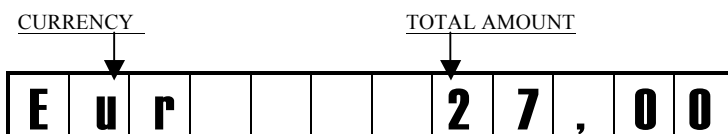
8 REAR PANEL

On the rear panel the ECR has following connections:
- ❑   I = power switch
- ❑   A = Power connector VDC 9Volts 2 Amp
- ❑   P = RJ 45 connector for PC connection
- ❑   C = 2,5 * jack for the connection to drawer

Note: use the cash drawer supplied by Ditron

9 PROGRAMMING

The Cash Register is made ready for use when the Technical Assistance Service installs it. It is possible to customise the appliance to the user's needs both from the fiscal side (receipt heading, VAT rates, etc.) and in the management side (Departments, PLU, graphics, connections, etc.).
Therefore, it is not necessary for the user to perform any other operations personally. Moreover, the Technical Assistance Service is always available to change the initial settings at any time.
Here follow the main programming functions that give more detailed knowledge of the appliance.

9.1 GENERAL INFORMATION

After pressing keys **4** and **MODE**, the display will show the wording **MODE P**. To access the programming menu, simply press the key **SELECT**. This will lead you to the first programming menu and the display will show the wording:

<div align="center">

BASE PROGRAM

</div>

By pressing the key **SELECT** several times, the display will show all the items for programming; after the last item, the sequence will start again from the beginning. As an alternative, it is possible to enter the serial number of the item chosen followed by the key **SELECT**.
To select the chosen item, once it is shown on the display, simply press the key **CONFIRM**.
At this point, you will enter the secondary menu relating to the chosen item with a message of this type:

> **PROGRAM:**
>
> **DEPT**

whose specific sequences will be available in the following pages.
To exit the programming options, press the **END** key, and if any changes or new programs have been introduced, the appliance will automatically print a sample receipt to keep as a memo.

The following pages set out some samples describing the programming modes. The first column, with a grey background, shows the indications appearing on the display, whereas the second column describes its content and/or the operations to perform. The keys to press are shown in capital letters. An important note relates to the indications on the Operator Display:

Example:

PROGRAM: **DEPT**	Programming by Departments
DEPT KEY ?	

9.2 ENTERING ALPHANUMERIC CHARACTERS

In some functions and programming modes, both numeric and alphabetic keys must be used.
To enter these characters, number keys are used, by entering for each character a two-key sequence that is obtained by pressing first the key showing the chosen letter and then the position number of the character on the key (**1, 2 or 3**).

7 **STU**	8 **VWX**	9 **YZ**
4 **JKL**	5 **MNO**	6 **PQR**
1 **ABC**	2 **DEF**	3 **GHI**

For example, letter L is obtained by pressing **4 3.**
To display numbers, press the key **0** followed by the chosen number.
To print characters in **double width** enter **99** before the identifying sequence of each individual character.
To print **small** characters, press key **000** before the identifying sequence of the character.
To enter some characters that are not available on the keyboard, refer to the table of alphanumeric character codes shown in the next paragraph.
If the key **C** is pressed at any time, it will cancel all programming carried out up to that point, and go back to the previous one.

9.3 CHARACTER CODE CONVERSION TABLE

The codes for the alphanumeric characters are the following:

Key	Number of pressing									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
00	Delete									
,	Space									
X	Up/lower case									
0	0	Space	,	+	-	#	/	%	(	)
1	A	B	C	1	Ä	"	*	.	@	^
2	D	E	F	2	>	<	&	!	?	=
3	G	H	I	3						
4	J	K	L	4						
5	M	N	O	5	Ö					
6	P	Q	R	6						
7	S	T	U	7	Ü	ß				
8	V	W	X	8	[	]				
9	Y	Z	9							

9.4 MAIN PROGRAMMING MENU

Here follow the items the appliance shows when the key **CHOICE** is pressed several times. When the individual item is displayed, press the CONFIRM key to access it.

DEPARTMENTS	Programming departments
PLU	Programming PLU
VAT RATES	Programming VAT rates
HEADER	Programming headers
MODIFIER	Programming modifiers
OTHERS	Programming other functions
CURRENCIES	Programming foreign currencies
PORT 1	Programming serial port 1 (**)
PORT 2	Programming serial port 2 (**)
DATE	Programming date
TIME	Programming time
GRAPHICS	Choice graphic on ticket
GROUPS	Programming merchandise groups
SUB-TENDER	Programming sub-tenders
CHIPCARD	Programming CHIPCARD functions (*)
PROMOTIONS	Activation of promotion functions
OFFERS	Activation of offers
BLOCKED CARDS	Blocked CHIPCARD table(*)

 (*) This function is only available on particular models and only if activated. Contact Technical Assistance and read the instructions in the CHIP CARD manual.
Modifier are of 2 types:
- main (preset)
- user defined.
Main modifiers are programmed in firmware and could be just partially configured. User modifiers can be full programmed by user, but they always associated with main modifiers.

9.4.1. Programming departments

Each department can have a series of parameters associated with it:

The description, the programmed price, the maximum number of figures enterable, the VAT code the single key entry, and the merchandise group code. They may be activated as follows:

DEPARTMENTS	=> **CONFIRM**

DEPT. KEY?	Digit key of department to program

NAME: DEP 01	Digit description => **CONFIRM** (max 16 characters)

PRICE	Digit price => **CONFIRM**

MAX FIGURE	Digit max number of figures => **CONFIRM** to set price
SING.ITEM.	Digit VAT rate code => **CONFIRM** (0,1,2,3,4): (**0** = free tax)
SING.ITEM.	Select the single beating => **SELECT**=> **CONFIRM** (YES/NO) to close ticket
MAND.QUANTITY	Obligatory enter of quantity **SELECT**=>**CONFIRM** (YES/NO)
ART. DISCOUNT	Select is the discount on item is allowed => **SELECT**=> **CONFIRM** (YES/NO)
SUB. DISCOUNT	Select is the discount on subtotal is allowed => **SELECT**=> **CONFIRM**
FIXED PRICE	Select is the prices blocked => **SELECT**=> **CONFIRM** (YES/NO) and
GROUP CODE	Digit number of group => **CONFIRM** (max 5 groups)

* Max number of digits is a amounts limitation for the current departments. The limit is presented as a sequence of 6 digits "pmmPMM". The meaning it following:
- p   - minimal first digit
- mm   - position if the first digit
- P   - maximal last digit
- MM   - position of the last digit.

F.e., to limit a minimal price of 10 and maximal price 9,999,999 – minimal first digit is 1 and it's position is 2 (for 10), maximal digit is 9 and it's position is 7 (for 9,999,999). Therefore the limit value for the department is "102907".

NOTE: ppm=0 disable the limit of the minimal price

PMM=0 disable the limit of maximal price.

By default the limit value is 000910, which means that minimal price if not limited and maximal price if limited to 9,999,999,999.

The machine is ready for programming the next department.

To leave the program, press **[END]**

9.4.2. PROGRAMMING ARTICLES

The articles programming menu is here below described:

| ARTICLES | => **CONFIRM** |

| CODE | Enter the item code by keyboard or => **CONFIRM** bar code reader |

NEW ARTICLE CONFIRM?	If it is a new item code => **CONFIRM**
NAME	Enter the item description (16 chars)=> **CONFIRM**
PRICE 1	Enter the price 1=> **CONFIRM** (price list 1)
PRICE 2	Enter the price 2=> **CONFIRM** (price list 2)
PRICE 3	Enter the price 3=> **CONFIRM** (price list 3)
LINKED DEPT.	Enter the department number => **CONFIRM** (if it 0 the item is memorised in the memory but it is disabled and cannot be sold
OPTIONS	Enter the item options* => **CONFIRM**
VAT CODE	Enter the item VAT rate => **CONFIRM**
COD. OFFER	Enter the item offer code => **CONFIRM**

TO EXIT   =>   **END**   =>   **END**

(*) Note: the OPTIONS field defines some options and it is a decimal value sum of weights depending on the options enabled. The weights and the relative options are listed below:

	Option	Weight
1	Quantity is obligatory	0001
2	variable price	0002
3	Auto close	0004
4	Discount is denied	0008
5	Do not calculate points	0016
6	Price request	0032
7	Prize item (disabled)	0064
8	Exclude if the offer is T5 (disabled)	0128
9	Weight article	0256
10	6 digits code: 1 – 6 digits for code, 6 digits for price	0512
	0 – 7 digits for code, 5 digits for price	
11	Weight (1)of price (0) in barcode	1024
12	Discount on subtotal is allowed	2048

For more information see the Maintenance Manual

Note: Before starting the articles programming it is necessary to initialise the cash register memory. This procedure must be carried out by technical assistance.

9.4.3 PROGRAMMING VAT RATES

Four codes are already programmed and associated with the same number of VAT codes.

VAT RATES	=> **CONFIRM**

VAT RATE 1	Digit VAT rate **=> CONFIRM** (2 integers e 2 decimals)
VAT RATE 2	Digit VAT rate => CONFIRM (2 integers e 2 decimals)
VAT RATE 3	Digit VAT rate **=> CONFIRM** (2 integers e 2 decimals)
VAT RATE 4	Digit VAT rate **=> CONFIRM** (2 integers e 2 decimals)

The machine is ready for programming the next VAT rate (from 1 to 4)

To leave, press **[END]**.

9.4.4 HEADERS PROGRAMMING

The ticket can be personalised by entering the data relating to the user (name, address, VAT number, etc.) on the header.

The software can memorise up to 5 lines of 32 characters each.

HEADER	=> **CONFIRM**

1	First line of header (*) => **CONFIRM**
2	Second line of header (*) => **CONFIRM**
3	Third line of header (*) => **CONFIRM**
4	Fourth line of header (*) => **CONFIRM**
5	Fifth line of header (*) => **CONFIRM**

TO EXIT   =>   **END**

(*) use the alphanumeric keyboard (see paragraph 6.2)
If the machine is focalized, the message will appear:

CONF_?	=> **[CONFIRM]**

After confirmation the new heading, it is saved in the fiscal memory.

Before confirming the header it is possible to centre it automatically using **[SUBTOTAL/SELECT].** In this case the ticket will be reprinted and confirmation will be asked again.

9.4.5 PROGRAMMING MODIFIERS

MODIFIERS	=> **CONFIRM**

NUMBER	Select a modifier number => **CONFIRM**

ACTIVE*	Activate modifier or not => **SELECT** => **CONFIRM**

NAME:	Description (max 16 characters)* => **CONFIRM**

CODE	Enter code of associated main modifier => **CONFIRM**

OPTIONS:	Modifier options* => **CONFIRM**

LIMIT	Enter th4e limit for modifier => **CONFIRM**

VALUE:	Enter the default value => **CONFIRM**

TO EXIT   =>   **END**

*This is only for user modifier with number starting from 14.
Options – is a number from 0 to 1006, which is amount of weight values of modifier parameters (only for user type):
- o Request authorization   002
- o Enter obligatory   004
- o Applicable for item and subtotalor   008
- o Percentage % (by default – absolute value):   032
- o On subtotal (By-default on Item)   064
- o Discount (if not – surcharge)   128
- o (disabled)   256
- o Use programmed desription   512

Limit – defines a limitation for modifier, which is entered as 3 digits Mmm:
- o M   : maximal value of the first digit;
- o mm   : position of the first digit.

The main modifiers are:

Modifier	Code	Notes
Return of goods	1	
Correction (Cancel)	2	

Correct last (Void)	3	
Cancel transaction	4	
Absolute Discount on Item	5	
Absolute Discount on Subtotal	6	
Absolute surcharge on Item	7	
Absolute surcharge on Subtotal	8	
% Discounts on Item	9	
% Discounts on Subtotal	10	
% Surcharge on Item	11	
% Surcharge on Subtotal	12	
Entrance Ticket Discount	13	

9.4.6 OTHER PROGRAMMING ACTIONS

Several options are available in the following menu:

| OTHERS | => **CONFIRM** |

| ECR NUMBER | Type a number to identify   =>**CONFIRM** cash register (max. 3 figures) |

| ROUND | Enter the rounding up to 1,5,10,50 => **CONFIRM** lire (used for multiplications and percentages) |

| PLU PRICE FREE | Enables select   => **SELECT** => **CONFIRM** to ch'ange the price of a PLU |

| BEEP | Enables or disables the beep => **SELECT** => **CONFIRM** |

| OPERATOR OBL. | Obliges the operator to enter or not enter   => **SELECT** => **CONFIRM** |

| PROG. REC | Resets progressive number to zero => **SELECT**=>**CONFIRM** non-fiscal receipts |

| PAPER TYPE   1 | Enter print settings   => **CONFIRM** (numbers from 1 to 4) |

| UNIT QTY. PRINT | Always prints quantity => **SELECT** => **CONFIRM** (even if this is 1) |

| SUBTOTAL OBL. | Compulsory use of subtotal => **SELECT** => **CONFIRM** before the receipt is completed. |

| ART. NUM.PRINT | Prints the number of articles sold => **CONFIRM** at the foot of the receipt. |

| TOT TYPE | Allows you to preset   => **CONFIRM** (1,2,3,4) and **SELECT** it the type of total. |

| SLIPS | Enables or disables printout => **SELECT** => **CONFIRM** of slips one per group |

SHIFT FIXED	Enables or disables the function => **SELECT** => **CONFIRM** to extend number of departments (*)
CLOSURE WARNING	Warns with a beep => **SELECT**=>**CONFIRM** or visual warning that the shutdown needs to be done. If enabled, the time of the warning will be requested.
ZERO PRICE	Allows you to set the sale => **CONFIRM** by DEP or ART even if the price is ZERO
TIME ON IDLE	Enables or disables the idle time function => **SELECT** => **CONFIRM**
MAX CID	Allows you to set the => **CONFIRM** (IN FIGURES) the maximum amount of the drawer contents
TAX ON SLIP	Enables or disables the printout => **SELECT** => **CONFIRM** of VAT details on the Receipt
CHANGE CONTROL	Allows you to disenable => **SELECT** => **CONFIRM** automatic check of Change and any error signal (if enabled it is possible to have a negative cash total)
FRACTION	Allows you to disable => **SELECT** => **CONFIRM** fractional sales

TO EXIT   =>   **END**

(*) To enable this, please contact Technical Assistance

9.4.7 PROGRAMMING FOREIGN CURRENCY

The cash register can accept payment in four different currencies. At this stage it is possible to program exchange rates to the lira and to introduce a 10-character alphanumeric description for each one.

CURRENCIES	=> **CONFIRM**

CURRENCY CODE?	Insert currency code => **CONFIRM** (from 1 to 4)
NUMBER	Insert number of foreign currency => **CONFIRM** units
RATE	Set exchange rate => **CONFIRM** (5 whole and 3 decimals)
DECIMALS	Set number of decimals => **CONFIRM** (max. 3 after the comma)
NAME:	Type currency description => **CONFIRM** (max. 10 characters) (*)

The appliance is set up for the programming of another currency

TO EXIT   =>   **END**

(*) use the alphanumeric keypad as explained in paragraph 9.2

9.4.8 PROGRAMMING SERIAL PORTS

HT238, HT258, HT358, HT358EJ, SAMRT258, ZIP can be connected to various external units, such as computers, printers that produce receipts or invoices, barcode readers, electronic scales etc. HT128EJ can be connected to computer only.

The parameters and means of transmission/reception depend on the units that the cash register is connected to and it is therefore necessary to refer to the unit's own manuals.

HT128EJ, HT238, HT258, HT358, HT358EJ need a serial board for connection to peripherals while SMART258 and ZIP come with 2 serial ports mounted on the main board.

Connection of the board to the relevant connector should always be carried out by an authorised technician and when the appliance is disconnected from the mains VOLTAGE.

Connection of cash register to external units is an operation that requires specific technical skills.

Connection carried out improperly **can cause serious damage to the appliance,** therefore please contact an **Authorised Technical Assistance Centre**.

We have shown a programming scheme of the cash register serial port 1 as an example.

* Select the port 1 programming menu by pressing the "**SELECT**" key until "PORT 1" message appears on the display, and then confirm the select using the "**CONFIRM**" key.
* Select the "HOST PC" peripheral type if you wish to connect a PC directly, then confirm this select.

Programming of serial port
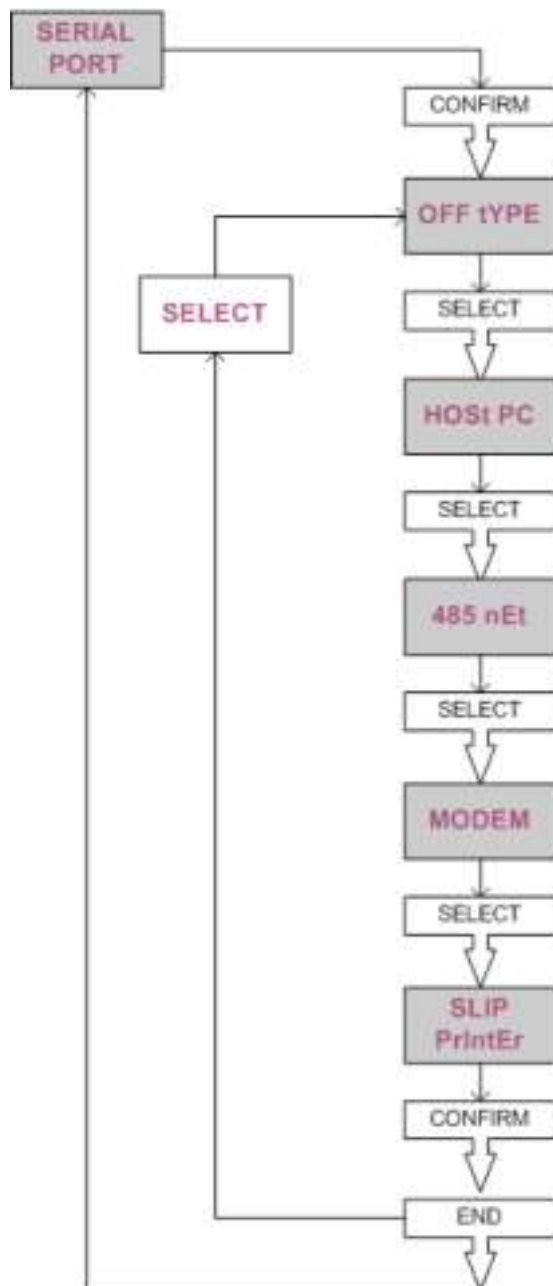
9.4.9 PROGRAMMING DATE AND TIME

These two programs allow you to change the date and time;
These changes are only possible once a fiscal zeroing has been carried out.
To input the date type day, month and year, in the DDMMYY format; the appliance will automatically insert separating hyphens. The register always asks for confirmation of the date input by emitting a long sound and waiting for the **CONFIRM** key to be pressed

Note the date of the zeroings is permanently recorded in the fiscal memory. It is therefore impossible to insert a date previous to that of the last fiscal zeroing carried out. Great care must therefore be taken, since if a later date is recorded it will be impossible to correct it afterwards.

To change the date proceed as follows:

| DATE | =>**CONFIRM** |

| DATE | Insert the date in the format DDMMYY   => **CONFIRM** |

| DD-MM-YY CONFIRM ? | Check the date input   => **CONFIRM** |

| TO EXIT   =>   **END** |

The same procedure applies for the programming of the time. The format should be HHMM. :

| TIME | =>**CONFIRM** |

| TIME HH:MM | Insert the time in format HHMM   => **CONFIRM** |

| TO EXIT   =>   **END** |

9.4.10 PROGRAMMING GRAPHICS

Graphic designs can be printed on receipts, from a select of those contained in the appliance's memory.
The print on the receipt can be done in three different ways:

- Marketing graphics: The design is printed at the bottom of every sales receipt.
- Timed graphics: The chosen design is only printed on the days between two programmed dates.
- Logo graphics: The design is printed at the top of the receipt as if was part of the heading.

   It is also possible to have your shop's own logo printed on each receipt using a technique available at assistance centres.

The appliance has 20 internal graphic designs, numbered from 1 to 20, which can be used on any of the types mentioned previously. Each design is associated with a number. To print the designs available type **103** or **500** => **CONFIRM** in SET mode**.**

   NOTE : by selecting number **<99>** as design number, you can have an "empty" design that lets you include lines of message at the bottom or the top of the receipt, increase the number of lines of heading, or include promotional messages and greetings etc.

Marketing graphics
To print a **PRODUCT** design, simply enter the relevant number as follows:

31

GRAPHICS	=> **CONFIRM**

MARK.GRAPHICS	=> **CONFIRM**

PICTURE	Insert required design number => **CONFIRM** (0 = no design)

EXTER. TEXT NO	Use the key **SELECT** => **CONFIRM** **IF** you wish to change any message

NEW MESS. ? NO	Use the key **SELECT** => **CONFIRM** **IF** you wish to restore the original messages (*)

TO EXIT   =>   **END**

(*) use the alphanumeric keypad as explained in paragraph 9.2

Timed graphics

In the case of **TIMED** graphics, a table is created containing 10 time periods, which the appliance proposes in succession starting from the first one. For each period, indicated on the display as (NUMBER x), it is possible to program the associated design number (DESIGN) containing 10 time periods, the start date (FROM) and the end date (TO) of the print of the design.
It is also possible to superimpose dates so that the appliance automatically prints different designs in adjoining periods. Proceed as follows:

GRAPHICS	=> **CONFIRM**

MARK.GRAPHICS	=> **SELECT**

TIME GRAPHICS	=> **CONFIRM**

NUMBER 0	Insert the number of the period => **CONFIRM** required (from 1 to 10)

PICTURE 0	Insert the number of the design => **CONFIRM** required (0 = no design)

FROM	Insert the start date => **CONFIRM** In DDMMYY format

TO	Insert end date in => **CONFIRM** in DDMMYY format

EXTER. TEXT NO	Use the key **SELECT** => **CONFIRM** **IF** you wish to change messages

NEW MESS.? NO	Use the key **SELECT** => **CONFIRM** **IF** you wish to restore the original messages (*)

The appliance can also be programmed for another period

TO EXIT   =>   **END**   =>   **END**

(*) use the alphanumeric keypad as explained in paragraph 9.2

Logo graphics
To print a **LOGO** design, simply enter the relevant number as follows:

| GRAPHICS | => **CONFIRM** |

| MARK.GRAPHICS | => **SELECT** |

| TIME GRAPHICS | => **SELECT** |

| LOGO GRAPHICS | => **CONFIRM** |

| PICTURE   0 | Insert the number of the design   => **CONFIRM**
 required (0 = no design) |

| EXTER. TEXT
 NO | Use the key **SELECT**   => **CONFIRM**   IF <br> you wish to change any message |

| NEW MESS.?
 NO | Use the key **SELECT**   => **CONFIRM**   IF <br> you wish to restore original messages (*) |

| TO EXIT   =>   **END** =>   **END** |

(*) use the alphanumeric keypad as explained in paragraph 9.2

9.4.11 PROGRAMMING GROUPS

Groups make it possible to associate a number of departments and articles to a particular market category. This will be identified by a number (from 1 to 5) and by a description that will appear on the relevant printouts.

| GROUPS | => **CONFIRM** |

| GROUP CODE | Insert the code of the group   => **CONFIRM**
 to be programmed (1 ... 5) |

| NAME | Load the description of the Group => **CONFIRM**
 (max. 10 characters) |

The appliance is automatically ready for the programming of the subsequent group

| TO EXIT   =>   **END** |

9.4.12 PROGRAMMING CLOSURE TYPES (SUB-TENDER)

This option allow to program tenders, which are of 2 types:
> - Main tender
> - Sub-tender

Main tenders are pre-set and can't be disabled. Sub tenders can be programmed by user, but they are always associated with main tenders.

Entering menu the machine will ask for a tender number . If the number entered will be greater than main tenders numbers, it will be considered as sub-tender and could be programmed.

The programming sequence is following:
-   Choose YES/NO to use this tender ot not (only for sub-tenders). If NO will be choosen the program terminates.
-   Name of tender: tender description.
-   Code of associated main tender: (only for sub-tenders)

Limits of the value: The limit for the current tender will be defined. It should be entered as 6 digits MmmRrr:

- M   : maximal value of the first digit.
- mm   : maximal order of the first digit.
- R   : maximal value of the first digit of change amount.
- rr   : maximal order of the first digit of change amount.

NB : if Mmm = 000 there is no limit. Rrr   = 000 there is no limit.

-   Value: The default value of the tender. (only for sub-tenders)
-   Options: tender options is a number from 0 to 3966, which is made by summation of parameter codes (only for sub-tenders). They are:

- Authorization is necessary   0002
- Enter value is obligatory   0004
- Confirmation from EFT is necessary   0008
- Subtotal is obligatory   0016
- Open drawer   0032
- Assign CID   0064
- Drawer number (0-1-2-3)   0256*Drawer number (0-256-512-768)
- Owner total   1024
- Replace description on the receipt   2048

Main tenders are:

Tender	Number
cash (main currency)	1
Credit	2
Cheque	3
Talons	4
Credit card	5
Chip-card	6
Non recived	7
Other 1	8
Other 2	9

Foreign currency 1	10
Foreign currency 2	11
Foreign currency 3	12
Foreign currency 4	13

On the display comes up:

«NUMBER»

Enter the number of the Sub-Tender you wish to program (1 to 10).

The application is highly specialised and also requires modification of the original keyboard Layout. We therefore advise you to contact an Authorised Technical Assistance Centre prior to application.

9.4.13 PROGRAMMING CHIP CARD

You should contact an **Authorised Technical Assistance Centre** for the installation of the Chip Card reader *whenever this is possible.*
For details on the use and programming of the chip card, please refer to the **Chip Card User's Manual** included in the Chip Card Kit.

9.4.14 PROGRAMMING PROMOTIONS

The appliance manages two different types of special promotion.
1. Joker Receipt : production of a graphic receipt which indicates a prize on reaching a certain number of receipts over a chosen threshold.
2. Prize Points : production of points at the bottom of the receipt of a value greater than or equal to the chosen value, greater than the set threshold.
To program use the following procedure:

PROMOTIONS   => **CONFIRM**

JOLLY   Joker Receipt YES/NO   =>   **CONFIRM**
                   move using the SELECT key

FREQUENCY   Enter number of receipts   => **CONFIRM**
                   produced before the prize

MINIMUM   Minimum volume of sales   => **CONFIRM**
                   required to give the prize

DESCRIPTION   Insert prize description   => **CONFIRM**
                   max. 2 lines of 24 characters (*)

TO EXIT   =>   **END**

(*) use the alphanumeric keypad as explained in paragraph 9.2

NOTE: In order to give an element of surprise to the prize, the appliance selects the prize at random, with a tolerance of 10% on the value of the frequency programmed. For example if a prize per 100 receipts is programmed, it can come up between the 95th and 105th.

It is also possible to access the prize points programming in the PROMOTIONS MENU.
.

POINTS HANDLE	YES/NO => **CONFIRM** move using the SELECT key	
VALUE	Enter point value => **CONFIRM**	
MINIMUM	Minimum sales value required => **CONFIRM** to provide a point	
TYPE	Set Type (0,1,2) => **CONFIRM** of Client that the promotion applies to 0 = All (*)	

TO EXIT   =>   **END** =>   **END**

(*) Note: the TYPE field defines some options and it is a decimal value sum of weights depending on the options enabled. The weights and the relative options are listed below:

weight +0 : give points to all customers
weight +1 : give points only to customers with customer card and chip card
weight +2 : give points to customers with chip card
weight +3 : not used
weight +4 : future use
weight +10 : used to calculate the number of points: substract the threshold value from the total of the receipt
weight +20 : enable the prize item sale
weight +40 : future use

When a receipt gives prize points the receipt is ended by a points report with following information:

- number of previous points
- number of points assigned with the current transaction
- number of points used for prize items
- current number of points

9.4.15 PROGRAMMING LUCKY GRAPHICS

Three types of graphics referring to lotteries can be activated using the usual procedure. In particular:
> LOTTO – supplies one cycle and group of five
> TOTOCALCIO – gives to columns at random
> TOTOGOL – gives two series of forecasts
> SUPERENALOTTO – gives two series of forecasts

Proceed as follows:

LUCKY	=> **CONFIRM**

LOTTO	Lottery ticket YES/NO => **CONFIRM**
	move using the SELECT key

TOTOCALCIO	Totocalcio ticket YES/NO => **CONFIRM**
	move using the SELECT key

TOTOGOL	Totogol ticket YES/NO => **CONFIRM**
	move using the SELECT key

SUPERENALOTTO	Superenalotto ticket YES/NO =>
	CONFIRM move using the SELECT key

TO EXIT   =>   **END** =>   **END**

9.4.16 TRAINING (hand-on exercise)

It is possible to use the cash register solely for training purposes (without issuing receipts) and without data being recorded by the fiscal memory.
To set up this mode, it is necessary to go into P mode and then type the number **79** or **9999** and **CONFIRM.**
This can only be done after a fiscal zeroing and only if the appliance is fiscalised. In this position, the spaces on the slip will contain only the ? symbol.
To exit the training mode, go into P MODE and type **78** or **8888** followed by **CONFIRM**.

9.4.17 PROGRAMMING AND USE OF THE SECRET CODE

Three secret codes can be programmed to prevent unauthorised persons from accessing any readings, zeroing and programming information.
Once the programming position has been activated (**P MODE**), type **: 9999** or **1** (for the programming password) or alternatively: **9998** or **5** (zeroing password) or alternatively: **9997** or **4** (reading password) followed by the **CONFIRM** key; the following text will appear:

PASSWORD ?

…………

with 12 dots

Enter secret code using a numeric sequence (any number of figures up to a maximum of 12) and type **CONFIRM**.
At this point the 12 question marks will reappear; enter the same secret code again followed by the **CONFIRM** key.
The following text will appear to confirm that the secret code has been activated:

PSW ACCEPTED

Note: If you wish to deactivate the secret code, simply hit the **CONFIRM** key twice when the question marks appear.

Attention: To modify the secret code you must first type the current one.

USING THE SECRET CODE

If the secret code has been entered, 12 question marks will appear every time an attempt is made to access the programming (**MODE P**), zeroings (**Z**), or the reading position (**X**). At this point simply type the *code* followed by the **CONFIRM** key**.**

Remember that the **P** password has priority over the **Z** password, which in turn has priority over **X.**

9.4.18   OPERATOR PASSWORDS

It is possible to limit access to certain functions to some operators (modifiers). These options can be specified in a personalised manner to each operator/cashier.

If a particular function (for example REFUND) is "limited", it means that the operator cannot access it, since to do this, he/she needs to enter the SET password (supervisor). He/she has to call the supervisor, or whoever knows the password, in order to carry out the operation.

To access this programme type (in SET position) [**32**] or **[3]** [**CONFIRM**]

The appliance will ask you to enter the operator number, and will automatically start from operator 1, displaying the message:

<div align="center">OPERATOR NUM ?</div>

<div align="center">1</div>

Enter the operator number (from 1 to 8)and press[**CONFIRM**] to activate the corresponding operator. At this stage the appliance will ask for the password to be entered, showing the current value of the operator's access code on the display:

<div align="center">PSW. OPER. 1 ?</div>

<div align="center">0</div>

Type secret code made up of a maximum of 6 figures; (if the code entered is **0**, this will not be requested in registration).

Type [**CONFIRM**] the appliance will display the following message:

<div align="center">OPER. LIMITS 1</div>

<div align="center">0</div>

 where the value of the second line is the current value of the operator's access functions. This value is a number from between 0 and 65535, which is the sum of 16 single "weights", where each weight represents a particular option (bit-flags).
  The options available are:

WEIGHT	DESCRIPTION
1	access to modifier #1 disabled
2	access to modifier #2 disabled
…	
4294967296	access to modifier #32 disabled

If you wish to "limit" an operator's access to one of the above functions, you need to add the relevant "weight" to the value to be entered as operator-options. For example, if you want the appliance to request the SET password for the *NO SALE*, REFUND and DISCOUNT functions, the following should be entered:

2 + 8 + 64 = 74

Enter the required value and press [**CONFIRM**].

<div align="center">OPER. OPTIONS</div>

<div align="center">0</div>

 where the value of the second line is the current value of the operator's access functions. This value is a number from between 0 and 65535, which is the sum of 16 single "weights", where each

weight represents a particular option (bit-flags).

The options available are:

      weight "1"   : Print the operator name at the end of the receipt
      weight "2"   : Do not open the drawer
      weight "4"   : FUTURE USE
      weight "8"   : FUTURE USE
      weight "16" : FUTURE USE
      weight "32" : FUTURE USE
      weight "64" : FUTURE USE
      weight "128" : FUTURE USE
      weight "256" : FUTURE USE
      weight "512" : FUTURE USE
      weight "1024" : FUTURE USE
      weight "2048" : FUTURE USE
      weight "4096" : FUTURE USE
      weight "8192" : FUTURE USE
      weight "16384": FUTURE USE
      weight "32768": FUTURE USE

    "NAME" = enter the operator name

It is possible to program this field in order to print the operator name at the end of the receipt

At this point the appliance prepares itself to wait for the operator number again, automatically moving on to the subsequent operator.

Once completed press <END> to exit.

Access limitations are of use only if a SET password is programmed (supervisor)

NOTE: By typing **0** followed by the [**OPERATOR**] key
registry mode, the appliance will not allow any operation to be
registered and will display the error message (Err.42) which asks
for the operator number to be entered.

---

10 FUNCTIONS

This chapter describes all of the functions that are available when the appliance is in the Registration position (**REG.**).
Before carrying out subsequent functions make sure that the appliance is in this position. This setting can be activated by typing **1** followed by the **MODE** key. Make sure that the following appears on the display:

                              MODE REG.

The following annotations will be used in this chapter:
      Numerical sequences (the amounts for example) : ***amounts***
      Function keys (for example dept. 1)   : **DEPT1**
      The => symbol indicates movement onto the subsequent stage

---

10.1 DEPARTMENT SALES AND PLU FUNCTIONS

10.1.1 Department Sales

The department keys allow memorisation and printing of sales transactions by department on the receipt and in the electronic journal. The association of the department to a VAT or product group allows correct subdivision on the printed reports.

As well as being accumulated in individual registers, the amounts are totalled in the total on the current receipt. By repeatedly pressing the department key, registration of the last amount entered is repeated.

The amount that precedes the pressing of the department key can be omitted if pre-programmed.

The single strike function set on the department allows the register to produce a receipt by simply pressing the department key.

For example a sale in an unnamed department:

amount => **DEPT1** => **TOTAL**

or a sale by in a named department:

DEPT => **TOTAL**

10.1.2 Article sales

The **PLU** key preceded by a numerical code of 1 to 3 figures (internal **PLU**) or a numerical code of up to 13 figures (external **PLU**) allows you to recall a description and unit price that have previously been programmed in the appliance (internal) or in a connected external unit (external).

For example a nominated PLU sale:

Number code => **PLU KEY**

Or a PLU sale with price variation:

amount => **PRICE** => *plu code* => **PLU**

10.1.3 Sales requiring Multiplication

This function, activated using the **X** key is used to multiply quantities by amounts, in the case of sales by department, or quantities by article in the case of PLU sales.

The maximum number of internal figures or decimals accepted as a quantity in the multiplication is five.

For example, a quantity by amount sale will be:

n° items and/or weight => **X** => *unit price* => **DEPT**

or a PLU sale with quantities other than 1:

n° articles => **X** => a*rticle code* => **PLU**

It is also possible to include the registration of a fraction of a pack of which the total cost is known, using this key. For a sale of 3 units taken from a pack of 30 with a pack price of € 15,00, type:

3 => **X** => *30* => **X** => *15000* => DEPT

obtaining a £ 1500 transaction.

Note: sales requiring multiplication can be disabled by the *DOUBLE PER* option active in the OTHERS programming menu

10.2 SALES VARIATION FUNCTION

These functions make it possible to modify the contents of a receipt while it is still incomplete.

Correction operations, transfer, and returns of merchandise on single strikes, discount/increases and cancellation on the subtotal are possible.

10.2.1 Correcting last entry

The **CANC** key allows you to cancel the last entry made. After the key is pressed a line of description then CANC and the same amount is printed, but with the sign inverted compared with the last stroke. For example type:

amount => **DEPT** => **CANC.**

10.2.2 Cancelling previous entry

Using the **CANCEL** key it is possible to transfer a previous sale for both a department and PLU. The sequence will be:

CANCEL => **amount** => **DEPT**

or

CANCEL => *plu number* => **PLU**

The function will only be applicable if transferring a previous sale contained in the receipt for the same amount.

10.2.3 Returned goods

This function allows you to carry out a return of merchandise of any amount in any department or PLU using the **REFUND** key. The receipt will have to be completed with a positive or zero value however.

For example, type the following sequence:

REFUND => **amount** => **DEPT**

oppure

REFUN => *plu number* => **PLU**

10.2.4 Discount and Increase Percentage

These functions apply a percentage discount or increase on the latest item sold or spreading it over all sales, on the SUBTOTAL calculated up to that time. The keys to use are **%A** and **%B,** once these have been correctly programmed.

The percentage of discount/increase can either be pre-programmed or typed before the **%A** key .
 The possible sequences will be:

amount => **DEPT** => **%A**

or

amount => **DEPT** => *% discount* => **%A**

or

amount => **DEPT**=> **SUBTOTAL** => **%B**

10.2.5 Discount

The **DISCOUNT** key allows you to make an absolute discount on the sale entered previously on the department or PLU, setting the value of the discount directly.

This discount can also be made after the SUBTOTAL with the consequent automatic distribution over previous transactions.
For example:

amount => **DEPT** => **discount** => **DISCOUNT**

or

amount => **DEPT** => **SUBTOTAL** => **discount** => **DISCOUNT**

10.2.6 Full cancellation of slip

The **CANCEL RECEIPT** key allows you to cancel the entire receipt in course bringing the total back to zero and closing the transaction. It is necessary to press the **TOTAL** key at the end as confirmation.
For example:

amount => **DEPT** => **CANCEL RECEIPT** => **TOTAL**

10.3 CLOSING TRANSACTIONS, METHODS OF PAYMENT

The sales transaction is concluded with payment, setting the sequences that allow you to register the amount taken on the keyboard.
The appliance gives you with the possibility to access various other forms of payment called SUB-TENDER. For information regarding these, see the chapter on programming.
The cash register automatically calculates and displays the change to be given whenever the amount cashed is greater than the sale price. If the amount cashed is inferior, the appliance displays the remaining amount (SUBTOTAL) and waits for further payment to be made.
Mixed tenders can be accepted, part in cash and part in credit or by cheque; the change given is always in cash.
Note that by using the **CURRENCY** function the register accepts payment in foreign currency .
If the **VOUCHERS** function has been activated, as well as the receipt, several sales slips will be produced, each one for each product group used.
Below are some examples of the main closure modes.:

10.3.1 Cash payments

The **TOTAL** key automatically assumes the meaning of payment in cash. To close a cash transaction and print the receipt type the following sequence:

amount => **DEPT** => **TOTAL**

or to calculate the amount of change enter the figure before the **TOTAL** key

amount => **DEPT** => **cash** => **TOTAL**

10.3.2 Paying by Cheques, Tickets, Credit Card or Credit

Close the sale and count up payment with cheques, vouchers, credit cards or credit. The amounts are thus assigned to different product registers which can be seen on the printed reports for auditing purposes.
For Cheques and Vouchers the sequence will be as follows:
amount =>**DEPT** => **amount** => **CHEQUE** o **TICKET**
Instead for Credit Cards or Credit it will be like this:
amount => **DEPT** => **CREDIT** o **CREDIT CARD**

Note that in the first case a greater amount can also be entered, with the relevant calculation of change, while in the second (being credit) the appliance considers this the overall value of the transaction.

10.3.3 Using other currency

The **CURRENCY** key allows you to obtain a receipt total expressed in a foreign currency.
By setting the currency code, previously programmed (from 1 to 4) and pressing the **CURRENCIES** key, the display shows the SUBTOTAL of the transaction expressed in the foreign currency. At this point it is possible to enter the value of the foreign currency actually cashed and press **TOTAL** .
Payments can also be made in mixed currencies. The change shown on the receipt is always in Euro
Whenever the currency code recalled has not previously been programmed there will be an error signal.
For example, use the following keys:
amount => **DEPT** =>*.currency code* (**1,2,3,4**) => **CURRENCIES** => **TOTAL.**
                    or
amount => **DEPT** => *currency code* (**1,2,3,4**) => *CURRENCIES* => *amount* (in foreign currency) => **TOTAL.**

10.4 OTHER FUNCTIONS AND SPECIAL KEYS

This paragraph describes the operational modes for the accessory functions present on the keyboard. Remember that other functions that are not described in this manual are present, and that a sequence of functions can be associated to a single key (MACRO). This makes the appliance extremely flexible to individual needs which can be satisfied by assistance technicians.

10.4.1 Subtotal

To display and print the SUBTOTAL amount, or rather the amount of the transaction memorised up until that time.
For example type the following:
amount => **DEPT 1** => **...** => **DEPT NN** => **SUBTOTAL**
The second typing of the key allows you to display the number of units sold.

10.4.2 C key

The **C** key allows you to correct the sequences typed and displayed on the viewer, but not yet registered. It also allows you escape error conditions.

10.4.3 Decimal separator

The use of the **,** key allows the insertion of commas in amounts in currency which contain decimal figures and also in the quantities to be multiplied, or in discount or increase percentages. This is always used in conjunction with numerical keys.
 NOTE: the insertion mode for amounts with decimal figures can be selected using the special function in **PRO** mode**:**
 51 or **299** => **CONFIRM** => the following will appear on the screen:

INP. ALPHA

By typing the **CONFIRM** key again => you access the following function:

FIXED COMMA

Use the keys => **SELECT** and => **CONFIRM** to select the option => **YES**. This enables you to enter figures in Euro cents, without having to use the **,** key for decimal amounts. E.g.:

to insert € 1.25 simply type 125

10.4.4 Slip movement

By pressing the **REC ADVANCE.** key once the receipt moves forward by one line of print.

10.4.5 Date and Time

The **DATE/TIME** key allows you to view the date and time if pressed alternately.

10.4.6 PRICE

By pressing this key the following appears on the display:

CODE ?

and an internal or external PLU code can be inserted (even through the optical reader) to view its description and programmed price. If it is inserted using the keyboard, the **PLU** key has to be pressed.
If programmed to do so, the same Key can be used for switching with a single key stroke between the Price of internal and external PLU Articles

Sequence: => *amount* => *PRICE* => *article number* => *PLU*

The same key can also be used to temporarily override the MAX Figure on a DEPT lock programmed on a single key strike

Sequence: (eg. Max figures in DEPT 1 = 2) => *amount (es. 999)* => *PRICE* => *DEPT 1*

10.4.7 Tax Codes, Changing article descriptions, Chip Card functions, Slip copying, Modem Connection.

The **FUNCTION** key can recall certain functions not present on the keyboard during a transaction, if preceded by typing a number.

Article description change

This key allows you to change the pre-programmed description of the article sold during the transaction.
By typing **1** followed by the key the following text will appear:

NAME:

a description can now by entered (see paragraph "Entering alphanumeric characters") followed by the **TOTAL** key.
 For example type the following:
      1 => *FUNCTION* => *Article description* => **CONFIRM**

The article or department that will then be displayed will contain the new description

Entering aTax code or VAT number

The **FUNCTION** key enables you to enter a Tax code or VAT number. This will automatically appear on the receipt on completion of the transaction.
By typing**2** followed by the key the following will appear on the display:

TAX CODE P.I.

A description can now be entered (see paragraph ""Entering alphanumeric characters") followed by the **TOTAL** key.

 For example type the following:
         2 => **FUNCTION** => *tax code* => **TOTAL**
The appliance runs an accuracy check on the Tax code or the VAT number, so that if this has been entered incorrectly, there will be an error signal.

Receipt Copy

A non-fiscal receipt copy can be obtained, different from the check function obtained by simply pressing the **TOTAL** key, at the end of a transaction by typing **[5]** followed by the **[FUNC]** key.
The receipt obtained will be a complete copy of the last one produced, with the wording **NON FISCAL** clearly stated at the top and bottom of the information field and also the wording *"RECEIPT COPY NO. XX"* where *XX* indicates the number of the receipt reproduced.

Stand-by

If the "MODEM" type is set during the programming of the serial port 1, by typing
    [6] => **[FUNC]**
the appliance goes onto stand-by, while it waits for data from the serial channel. If this does not arrive the appliance goes into waiting time out and the display shows the error type:

Err. 47
ERR. MODEM

10.4.8 Previous total /Operator Code

When pressed during the production of a receipt the **OPERAT.** key enables you to view the total of the previous receipt, without modifying the receipt being printed in any way.
If pressed once a receipt is complete, as well as displaying the previous total it will also open the drawer.
If pressed before starting a receipt and preceded by a numerical code (from 1 to 8), it enables the operator identified by this code to use this function. This allows you to memorise a cashier's activities and to print a report on these.

10.4.9 Other operations

When the **TRANSN.** key is pressed on a completed receipt, the following appears on the display:

CASH TRANS

This allows you to select one of the functions mentioned below through the menu, that is, using the **SELECT**, **CONFIRM** and **END** keys for programming.

Note : Payment or collection transactions are carried out in the same way as sales

Tax receipt, invoices received and standard invoices

In the TRANSACTIONS menu, the following is obtained by pressing the **SELECT** key:

```
TRANSACTIONS :
FISCAL RECEIPT
```

```
TRANSACTIONS :
INVOICE.  -  RECEIPT
```

```
TRANSACTIONS :
INVOICE
```

These functions allow you to issue tax receipts and invoices, when the appliance is connected to an external printer. For information on use and meanings please refer to the manual belonging to the external printer.

Withdrawals and Deposits

Then continuing with the **SELECT** key, the following will appear on the display:

```
TRANSACTIONS :
OUT
```

```
TRANSACTIONS :
IN
```

This allows you to make withdrawals from and to deposit sums in the cash register of various amounts.

Float

By continuing this will appear:

```
TRANSACTIONS :
FLOAT
```

This allows the cashier to make an initial deposit at the beginning of the day so that he/she has enough petty cash to be able to give change.
Part payment receipts
 Then once again using the **SELECT** key :

```
TRANSACTIONS :
REC. ACCOUNT 1
```

```
TRANSACTIONS :
REC. ACCOUNT 2
```

The two types of part payment allow you to accept money in part payment by issuing a non-fiscal receipt.

11 READING AND ZEROING

The cash register can issue a wide range of summarising reports of the operations registered, each relating to a specific operational and administrative purpose of the sales outlet.
Reports are printed on both the receipt and the journal.
You can also simply read this data, or the related zeroing of such data depending on the position of the appliance. These are known as **READING** or **ZEROING**.

11.1 READING

When **2** is pressed followed by the **MODE** key, this wording will appear on the display:

| MODE X: |
| 0 |

to access printouts of readings simply press the **SELECT** key. You will then enter the READINGS menu.
By repeatedly pressing the **SELECT** key, all the possible readings will be shown on the display in sequence; after the last item, the sequence will go back to the beginning. Alternatively you can type the reading number followed by the **SELECT** key.
To select a particular reading, simply press the **CONFIRM** key once it appears on the display.
Any printouts done in reading mode will be NON- FISCAL.

SPECIAL FUNCTION : With the appliance in READINGS mode, by pressing the **TOTAL** key, the total amount of cash in the cash register with be shown. Instead by typing **1** => **TOTAL**, the daily total will be shown.

Below are the readings available with their relevant symbols that appear on the display:

Long daily reading

| FULL. JOURNAL |

This reading is a complete printout of all the operations carried out during the day. It shows sales, VAT rates, departments, cash register totals, discounts, increases, drawer movements, the total contents of the cash register.

Short daily reading

| SHORT.JOURNAL |

This is a printed summary of the day's sales, cash register and cash totals.

Average daily reading

| AVERAGE. JOURNAL |

This is a daily printout of sales, cash register totals, cash totals, discount and increase totals , cash register movements and total contents of the cash register.

Previous cash register reading

| PREVIOUS |

This is a printout of previous cash register movements.

Previous VAT rates reading

PREV. IVA

A detailed, previous printout of all the VAT rates subdivided into taxable, taxed, and corresponding.

Previous reading of departments

PERIOD. DEPTS

This is a detailed, previous printout of all departments divided into: quantity, gross and net sales values (net of discounts).

Previous reading of the PLUs used

ARTICLES

A detailed previous printout of the totalisers of the PLUs used, subdivided by departments, and indicating sold quantity and value.

Selected reading of the PLUs

SELECTED PLU

A detailed printout of a group of PLUs, selected from number to number, indicating sold quantity and value.

Previous operator reading

OPERATORS

A detailed previous printout of all operations performed by a particular operator. The appliance will ask you to type the operator code (from 1 to 8) followed by the **CONFIRM** key.

Reading of operations concentration by time periods

PERIOD

A detailed printout of the total of transactions carried out during the day divided by time, number of clients and amount, for statistical purposes.

11.1.1 EXAMPLES OF PRINTOUTS

```
          HEADER              DAILY TOTALS
          ADDRESS             READING
        VAT NUMBER
     _____
      ** NON FISCAL **
  DAILY CLOSURE.      X
  SALES

  CLIENTS SERV.       9
  TOT.BRUTTO       7,70
  TOT NETTO        7,70
  TOT CANCELLED
  2                1,70


  RECEIPTS
  9                7,70
  CASH                9
  7,70


  ECR TOTAL

  CASH                9
  7,70


  #15    001        OP. 1
  10-02-2003      16-34
  OPERATOR.      6


      ** NON FISCAL **
```

```
          HEADER              PREVIOUS V.A.T.
          ADDRESS             READING
        VAT NUMBER
     _____
      ** NON FISCAL **
  VAT  PREVIOUS       X
  FROM   21-01-03

  VAT   1:           4%
  TAXABLE          5,86
  VAT              0,24
  TOTAL.           6,10
   VAT  2:          10%
  TAXABLE          3,20
  VAT              0,32
  TOTAL.           3,52
  FREE             6,85

  TOTALI
  TOTAL   .       16,47
  TAXABLE          9,06
  VAT              0,56

  #16    001        OP. 1
  10-02-2003      16-34
  OPERATOR.      6


      ** NON FISCAL **
```

11.2 ZEROING

When the **3** key is pressed followed by the **MODE** key, the following will appear on the display:

```
MODE Z
0
```

this establishes the position of the zero setting.

To access zero resettings simply press the **SELECT** key. You then enter the ZERO RESETTINGS menu.

As previously seen for the readings, by repeatedly hitting the **SELECT** key, all the possible zero resettings will appear in sequence on the display; after the last item, the sequence will go back to the beginning. Alternatively you can type the number of the zero resetting followed by the **SELECT** key.

To select the zero resetting required, simply press the **CONFIRM** key when it appears on the display.

The zero resettings are divided into daily and periodical. The periodical ones allow you to accumulate totalisation independently of the daily ones, and for this reason they can be set to zero separately.

The types of zero resetting available and the relevant symbols that appear on the display are shown below.

Long daily zero resetting

```
FULL. JOURNAL
```

This zero resetting gives a complete printout and the related zero resetting of all the operations carried out with the cash register during the day. It prints the sales, VAT rates, departments, cash register totals, discounts, increases, accounting, and total cash register amount.

After printing the NON-FISCAL part, pressing the **CONFIRM** key will start the printout of the daily *FISCAL* report.

Short daily zero resetting

```
SHORT. JOURNAL
```

This gives a printed summary and the zero resetting of sales, the cash register and cash totals.

After printing the NON-FISCAL part, pressing the **CONFIRM** key will start the printout of the *FISCAL* report..

Average daily zero resetting

```
AVERAGE. JOURNAL
```

This gives a daily printout and zero resetting of sales, cash register and cash totals, discounts and increases, cash register operations and total cash register amount.

After printing the NON-FISCAL part, pressing the **CONFIRM** key will start the printout of the *FISCAL* report.

The daily zero resetting procedure can be simplified if the **"SHUTDOWN TYPE…"**function has been activated, followed by a number from **1** to **4**; here, **" 1 "** represents long closure, **" 2 "** short, **" 3 "** average , **" 4 "** only the fiscal part.

In this case, to obtain the daily closure, simply proceed as follows :

Press the **3** key followed by the **MODE** key, and this will appear on the display:

```
MODE Z
                                                       0
```

<div align="center">type : **CONFIRM**</div>

This appears on the display :

ZEROING ?
0

<div align="center">type : **CONFIRM**</div>

This appears on the display :

DAILY CLOSURE
0

The MI 3000 issues the daily closure and produces a receipt.

Periodical cash register zero resetting

PREVIOUS

This gives a printout and the previous zero resetting of cash register movements.

Previous zero resetting of VAT rates

PREV. IVA

This gives a printout and zero resetting of VAT, with relative taxable amounts and amounts set aside

Previous zero resetting of departments

PREV. DEPTS

This gives a printout and zero resetting of all the department totalisers.

Previous PLU zero resetting

ARTICLES

This gives a printout and zero resetting of the PLU totalisers

Selective PLU zero resetting

SELECTED PLU

Gives a printout and zero resetting for the PLU groups from number to number (selective printout).

Previous operator zero resetting

OPERATORS

This gives a printout and zero resetting of all the actions carried out by a particular operator by entering his code, or alternatively all the operators by not entering any code. The appliance will ask you to enter the operator code (from 1 to 8) followed by the **CONFIRM** key.

11.3 FISCAL ZEROING

The end-of-day **fiscal zero resetting** is obtained by running the LONG or alternatively SHORT or NORMAL DAILY ZERO RESETTING (see previous paragraph)
This is printed immediately after the relevant <u>NON-FISCAL</u> report by pressing the **CONFIRM** key. If you wish to reset the cash register to zero, and not run the fiscal closure, once the appliance has run the printout of the <u>NON-FISCAL</u> part, press the **END** key.
The fiscal zero resetting receipt can be identified by the appliance's serial number that appears on it. Only this should be kept for fiscal purposes.

Appliances that have the Electronic Journal also show data relating to the journal's initialisation and the fiscal seal.

> Note: The zero resetting memorises data in the fiscal memory permanently. For this reason this function should be carried out once a day and the end of trade.

11.3.1 AN EXAMPLE OF FISCAL ZERO RESETTING

```
                HEADER
                ADDRESS
              VAT NUMBER


    DAILY CLOSURE
    _____


    DAILY TOTAL.           16,47
    COMM. TOTAL         2.819,02
    CANCELS                 1,70
    FISCAL RECEIPTS           12
    FM READINGS                0
    SALES RECEIPTS            10
    NUM OF CLOSURE             3
    N. 12       10-02-2003  16-56
    RESTART                    2



    EJ INITIALIZATION   :
    CODE: 01
    DATE   : 08-05-03  15:15

    MF   TV 45999999


    SEAL: 6FB6
```

11.3.2 ZERO RESETTING EXAMPLES

DAILY TOTALS ZERO RESETTING

⟵

PREVIOUS FINANCING ZERO RESETTING

⟶

HEADER
ADDRESS
VAT NUMBER

** NON FISCAL **
DAILY CLOSURE.   Z

CLIENTS SERV.   11
TOT.BRUTTO   16,47
TOT NETTO   16,47
TOT CANCELLED
2   1,70

RECEIPTS
11   16,47
CASH
11   16,47

ECR TOTAL

CASH
11   16,47

#15   001   OP. 1
10-02-2003   16-56
OPERATOR.   10

** NON FISCAL **

HEADER
ADDRESS
VAT NUMBER

** NON FISCAL **
VAT PREVIOUS   Z
FROM 21-01-03

SALES

CLIENTS SERV.   11
TOT.BRUTTO   16,47
TOT NETTO   16,47
TOT CANCELLED
2   1,70

RECEIPTS
11   16,47
CASH
11   16,47

ECR TOTAL
CONTANTE
11   16,47

DISCOUNTS/SURCHARGES

TRANSACTIONS

#22   001   OP. 1
10-02-2003   16-55
OPERATOR   12

** NON FISCAL **

53

12 FISCAL MEMORY READING

Printouts of the content of the fiscal memory can be obtained. These printouts will produce FISCAL RECEIPTS; these can be produced by entering the **MODE Z** menu of the cash register (**3** key followed by the **MODE** key) by typing a code followed by the **CONFIRM** key. The codes are the following:

10   => CONFIRM   Complete printout of the fiscal memory

This produces a receipt showing all the zero resettings carried out on the appliance. The progressive numbers of these resettings are printed, with the dates of each, and the relevant closure amounts and any general resettings carried out by technical assistance.

11   => CONFIRM

This is a selective printout of zero resettings contained in the fiscal memory (from number to number).
Similar to the previous printout as far as the data contained is concerned, but with the option of selecting an initial and end zero resetting number.

14   => CONFIRM

Printout of the content of the fiscal memory between two specific dates.
It shows the progressive numbers and the relevant amounts of the zero resettings between an initial and end date.

15   => CONFIRM

Printout of the overall total contained in the fiscal memory between the two dates.
A receipt with the number of zero resettings carried out and the total memorised in the selected period is printed.

13 ERROR MESSAGES

The error messages that appear on the display are either correctable or system-blocking.

If a correctable error occurs, type the **C** key. The appliance will return to its normal functioning.

In the case of system-blocking errors please contact an authorised Technical Assistance Centre.

The top line on the display carries an error code, while the lower one gives a brief description of the error.

Below are all the error codes that can appear on the display, their causes and any correction action needed.

TABLE OF ERROR MESSAGES WITH NUMERICAL CODES

Message on display	Meaning and corrective action
ERR. 1	Incorrect setting. Press **C** key and try again.
ERR. 3	Clock error. (*)
ERR. 4	Appliance key non recognised. Position on correct key.
ERR. 5	Totaliser capacity exceeded. Reset to zero.
ERR. 7	Function not permitted. Press **C** key and try again.
ERR. 8	Article code not found on external file. Check PLU exists.
ERR. 9	Change required. Make a deposit or float.
ERR. 12	Fiscal memory overflow (system-blocking error) (*)
ERR. 13	Fiscal memory breakdown (system-blocking error) (*)
ERR. 15	Fiscal memory absent (system-blocking error) (*)
ERR. 16	Negative total. Make a sale to bring it back to positive.
ERR. 17	Journal paper finished. Replace roll and press **C**.
ERR. 18	Fiscal memory used up (system-blocking error) (*)
ERR. 20	Close receipt.
ERR. 21	Printer tension low. Press **C** ; if problem persists call for assistance.
ERR. 24	Unacceptable accounting action.
ERR. 25	Currency code does not exist.
ERR. 26	PLU code does not exist.
ERR. 27	Error on serial connections.
ERR. 28	Writing error in fiscal memory (system-blocking error) (*)
ERR. 29	Reading error in fiscal memory (system-blocking error) (*)
ERR. 30	Serial interface absent.
ERR. 31	Function only accepted after zero resetting. Carry out resetting.
ERR. 32	Too many reinstatements (system-blocking error) (*)
ERR. 33	Date earlier than last date in fiscal memory.(*)
ERR. 35	No printer found for invoices/receipts.
ERR. 36	No paper in external printer.
ERR. 37	End of paper module in external printer.
ERR. 39	Function not permitted in training mode. Exit from training mode.
ERR. 40	Max. daily capacity exceeded. Carry out zero resetting.

ERR. 41	Error on serial connections.
ERR. 42	Obligatory operator data entry.
ERR. 43	Print lever head raised. Close print head.
ERR. 44	Incongruent data in fiscal memory. (system-blocking error)(*)
ERR. 45	Obligatory figure entry in close of transaction.
ERR. 46	Subtotal obligatory. Press the **SUBTOTAL** key.
ERR. 48	Cutter error. Check for paper residues in cutter.
ERR. 49	Chip card not valid. Consult specific manual.
ERR. 50	Chip card administration error. Consult specific manual.
ERR. 52	Sub-Tender not activated.
ERR. 83	This message refers to two cases: the first indicates specific "*EJ*" malfunction, the second when EJ is not recognised (*For example when a EJ from another machine is inserted*)
ERR. 84	The electronic journal device is not inserted when appliance is switched on, or is removed while appliance still switched on.
ERR. 85	This error message appears when an attempt is made to issue a receipt or any other operation before the "*EJ*" has been correctly initialised.
ERR. 86	This message appears when the "*EJ*" is full, and only fiscal resetting is permitted. It also appears when an attempt is made to work with a "*EJ*" that is not the last one initialised on that appliance.
ERR.89	It is necessary to execute daily closure to continue
ERR.92	Wrong date/time

- **system-blocking error; contact Technical Assistance**

14. Additionals for Albania

SET mode:
- Command 990 : Program VAT Code (to be performed before the fiscalization and after the serial number input)
- Command 205 : FM data sending via modem
- Command 206 : FM data sending via modem for a specific period, from date..to date
- Command 295 : Set modem parameters:
    1. APN
    2. FTP SERVER
    3. USER ID
    4. PASSWORD
    5. TX DAY (1-10) set the day after that the daily closure is automatically sent after the Z-closure
    6. MODEM (0 -1) Modem type:1=TELIT, 0=TELIT compatible
    7. PROTOCOL: serial port protocol (80184)
    8. ECR SERIAL PORT (1-2) : requested in models with more than one serial port

- Command 296 : enable/disable automatic data sending after Z-report.(Note : a password is requested for disabling)
  Normally if the max date programmed with command 295 passed, data sending is automatically executed after the Z-report
  Command 296 allow to disable the max date control and the data sending can be executed manually only using the command 205. The password requested by command 296 is generated by a special utility PswAutoSendGen.exe.

REG mode:
- "receipt/invoice" . This feature can be enabled as follows :

    1. Press 20 + Function key (FN_Funct)
    2. Direct key: on ZIP keyboard key no. 3

Set a key for function "receipt/invoice":
Code : FN_SLIP
SubCode :   ID_INVOICE_REC,

WinEcrCom Command to be used to enable receipt/invoice function:
INP NUM=1234567890,TERM=TSFATS   ; init invoice no.1234567890

15. Additionals for UK

Scanning Function

In REG mode it is possible to sale an item also if the item code has not been stored in the cash register memory. When a new item is scanned or anew item code is entered ("*item code*" PLU) the cash register asks for the price to be entered, sells the item and saves in the cash register memory a new item with following default setting:

DESCRIPTION=BAR CODE entered

PRICE 1= price entered

DEPARTMENT= 30

When the receipt has been closed it is possible to change the above settings in programming mode.

Function code 33: *cash drawer opening*

This function allows to define for each tender if the cash drawer must be open when a receipt is closed with that tender

SET mode (<4><KEY>)

33 CONFIRM

For each tender has been defined a weight value. If the cash drawer must be opened when the receipt is closed with a tender the relative weight value must be added to the "cash drawer opening option" amount.

Tender	Weight value
CASH	1
CREDIT	2
CHEQ	4
COUPON	8
CR. CARD	16
CHIP CARD	32
CREDIT	64
VARIOUS 1	128
VARIOUS 2	256
CURR. 1	512
CURR. 2	1024
CURR. 3	2048
CURR. 4	4096

Note: in case of sub-tender it is possible to set an option for the cash drawer opening during the programming procedure.

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