SOCIETÀ COOPERATIVA BILANCIAI

VENUS

$C\epsilon$

User manual

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1. GENERAL INFORMATION

1.1 Declaration of conformity

DECLARATION OF CONFORMITY
Manufacturer: **SOCIETÀ COOPERATIVA BILANCIAI**
Address: Via S. Ferrari, 16
41011 Campogalliano (MO)- Italy
The electronic terminal model: **Venus**
with the options all those described in this manual
conforms to:
✔ standards EN45501, EN50081-1 in accordance with the requirements of Directive 89/336 EEC (electromagnetic compatibility)
✔ standard EN60950 in accordance with the requirements of Directive 73/23 EEC (low voltage directive)
The terminal is also suitable for the creation of approved non-automatic weighing instruments with "CE Type Approval Certificate" in conformance with the requirements of Directive 90/384 EEC.
The product bears the CE marking.

1.2 Foreword

✔ The aim of this manual is to provide the operator, through the use of text and illustrations, with essential information regarding the installation, safe operation and maintenance of the weighing system.

✔ This manual must be kept in a safe place where it is readily available for consultation! Always observe the instructions contained in the manual!

✔ Safe operation of the system is the responsibility of the operator, who must be fully familiar with it.

✔ The user is responsible for ensuring that the installation conforms to the applicable regulations.

✔ The equipment must only be installed by specialised personnel who have read and understood this manual.

✔ The term **"specialised personnel"** means any personnel who, by virture of the training they have received and their professional experience, have been explicitly authorised by the "System safety supervisor" to install, operate and service the system.

✔ Contact your nearest Service Centre if problems occur.

✔ Any attempt on the part of unauthorised personnel to dismantle or modify the terminal is prohibited. Any such attempt shall invalidate the warranty and relieve the manufacturer from all liability for any damage or injury to persons or property.

✔ It is also forbidden to alter or remove the data plates and seals on the terminal. Make sure that all plates and seals are present and legible, if not contact the After-Sales Service.

✔ The manufacturer shall not be liable for any damages caused by incorrect handling of the terminal.

✔ The information and illustrations contained in this manual were up to date at the time of publication.

✔ The manufacturer is committed to a policy of continuous product improvement and parts of the system may therefore be subject to modification.

✔ All the technical information contained in this manual remains the exclusive property of the manufacturer and may not be disclosed to third parties.

✔ No part of this document may be reproduced or transmitted in any

form, including publication in computerised form or on the World Wide WEB, without the explicit written permission of the manufacturer.

✔ This manual may not be used for purposes other than those directly related to installation, operation and maintenance of the terminal.

✔ In order to more clearly describe certain maintenance or adjustment operations, some of the illustrations in this manual show the weighing system with the safety guards removed. Under no circumstances may the system be operated in these conditions. The safety guards may only be removed for the time strictly required to carry out the required repairs or maintenance work after which they must be fitted back in place.

1.3 Symbols

Below is a list of the symbols used in this manual to alert the reader to the various hazards associated with the operation and maintenance of the instrument.

⚠ DANGER ⚠

Denotes an operation or procedure where failure to observe the instructions will result in death or serious injury.

⚠ATTENTION⚠

Denotes an operation or procedure where failure to observe the instructions could result in minor injury or damage to the instrument.

✋ WARNING ✋

Information or instructions on how the system is to be operated correctly in order to maximise its service life or prevent loss or damage of programmed data or to optimise operation with regard to metrological standards.

Text and messages displayed on the terminal are printed in this manual using special characters.

Messages:
Display messages appear like this.

Menu pathways:
Home\Process\Data Modification\Product
The "\" character indicates the transition from one menu option to the next.

1.4 Documentation

This manual is accompanied by a CD-ROM that primarily contains information about installation of the terminal.

Here you will find information on how to interface the terminal with a PC or PLC.

1.5 Description of the terminal

The digital weight indicator allows highly accurate and reliable weighing operations to be carried out. Its field of use is mainly for commercial weighing and labelling purposes. The graphic display and fully alphanumerical keypad allow the terminal to be easily used by even inexpert operators.

Certain of the characteristics of the indicator are listed below:

✔ connection to up to 2 scales with analogue cells (up to four 350 Ohm cells per scale)

✔ three RS232/422/485 standard serial outputs

✔ 110-240 Vac power supply

✔ facility for connection to an external keyboard and mouse (compatible PCs).

Optional boards that extend the way the indicator is used and interfaced can also be requested.

1.6 Technical characteristics of the terminal

Power supply:	110-240 +10%-15% Vac 50/60 Hz
Maximum power:	75 VA
Load cell connection:	up to four 350 Ohm analogue cells on the 9-pin connector for each scale input
Minimum impedance:	87 ohm (per analogue input)
Analogue load cell power:	10 Vdc
Resolution:	up to 10000 divisions
Maximum input signal:	23 mV
Sensitivity:	0.75 uV/division (version with analogue cells)
Full scale stability:	< 5 ppm/°C
Zero stability:	< 5 ppm/°C
Compensated temperature range:	-10 + 40 °C
Operating range:	-10 +50 °C
Protection:	IP20
Humidity:	85 % @ 40°C

1.7 Overall dimensions

Weight: 5.6 kg
The dimensions are given in mm.
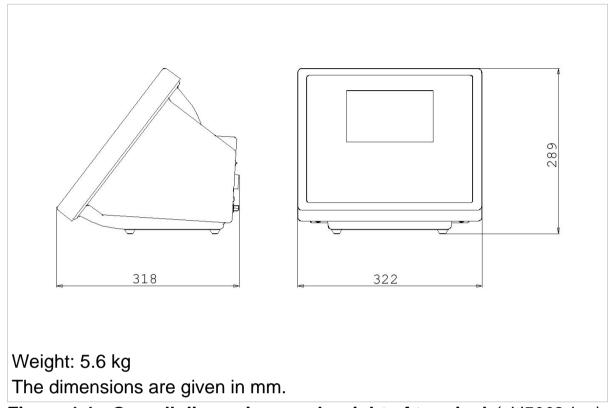
Figure 1.1 - Overall dimensions and weight of terminal *(citi5002.jpg)*

1.8 Obtaining technical assistance

In the event of any operating faults requiring the intervention of specialised technicians, contact the manufacturer or your nearest Service Centre. To enable us to deal with your request swiftly, always state the serial number of your terminal, which can be found on the seal label. Also provide information about the system in which the terminal is installed.

1.9 Replacement parts list

Code	Description
520540	110-240 Vac 50/60 Hz power supplier complete with casing, fan, switch, fuses, socket and internal connection flex
512739	Keyboard (policarbonate casing and board)
571312	Carrier E0202 board
571311	CPU 1220 board with Venus BIOS
460744	Scale converter complete with box
528242	LCD display
520539	Inverter for LCD display
460765	COMPACT Memory Card + Adapter
554749	D.O.M. Disk On Module 32Mb
460782	Parallel output kit
51270001	Keyboard (policarbonate casing and board) 8.2" display version
52820001	8.2" sx21v001-z4 colour display for Venus
52050001	Inverter for 8.2" Venus LCD display

Replacement parts can be ordered directly from the manufacturer or from your nearest Service Centre.

1.10 Warranty

The warranty conditions are specified in the contract of sale.

2. SAFETY INSTRUCTIONS

2.1 Prohibited uses

The instrument you have purchased is a weighing system and has been designed and manufactured as such. The instrument is primarily intended for weighing goods.

✔ It is forbidden to use the terminal without taking the necessary precautions for safe use.

✔ Use of the terminal in places with potentially explosive atmospheres or in areas where there is a risk of fire is strictly prohibited.

Any other use shall only be permitted if explicitly authorised by the Manufacturer.

2.2 Regulations

The operating conditions for the electronic terminal are subject to the regulations in force in the country in which the terminal is used. All use of the terminal in conditions which do not comply with these regulations is prohibited.

2.3 Prescriptions for use

✔ Strictly comply with the instructions in this manual during use.

✔ In the event of discrepancy between the information in this manual and the instrument purchased, contact your Dealer or the Manufacturer's After-Sales Service for explanations.

✔ Always observe the indications given on the warning and danger plates on the terminal.

✔ Make sure that all the safety guards are in place and that the connection cables are in a good condition and connected correctly.

✔ Make sure that the terminal is connected to an electrical outlet socket equipped with an efficient earth connection. Make sure that the line complies with the applicable regulations. Make sure that there is no difference in potential between the earth and neutral conductors.

✔ If the terminal is to be connected to other devices (e.g. a computer or other), these devices must be disconnected from the electricity main before connection to the terminal.

✔ All maintenance work and/or repairs must be carried out by authorised personnel only.

✔ Always disconnect the terminal from the electricity main and wait a few minutes before accessing the internal components.

2.4 Professional profiles

In view of the absence of particular, intrinsically dangerous devices and the consequent simplicity of the protection systems, the professional profiles of the persons who work with the machine can be the following:

Qualification 1) Machine operator who is entrusted with operations that include powering the line, starting, stopping, correctly feeding in the products, unloading the products, replacing the labels and removing the silicone-backed paper.

Qualification 1-a) Programmer of the machine entrusted with the machine programming phase, which does not entail hazards for persons or property. The person who deals with this task must be particularly careful and diligent as some of the programming operations can destroy the previously memorised data. He/she must also be familiar with the productive organisation of the company so as to enter adequate information.

Qualification 2) Mechanical servicing technician entrusted with making sure that the mechanical components are clean and in a good condition, as well as adjusting and servicing them: with the exclusion of any operation involving the electrical system with which the machine is fitted.

Qualification 3) Servicing electrician, entrusted with the task of organising the maintenance work and dealing with any electrical faults, possibly with the ability to work inside the control panel.
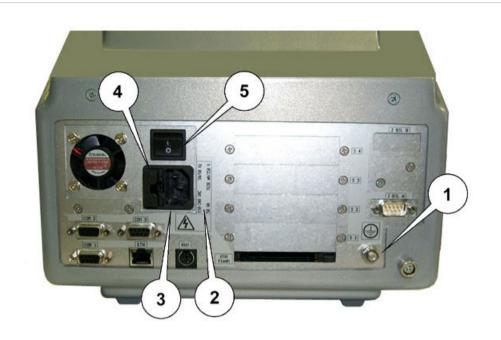
Qualification 4) After-Sales Service, person who deals with all the complex adjustments, servicing, repairs or other operations to be carried out in particular conditions.

_____ ✋ **WARNING** ✋ _____

Reference will be made to the qualifications described above in all future descriptions about operations involving the machine.
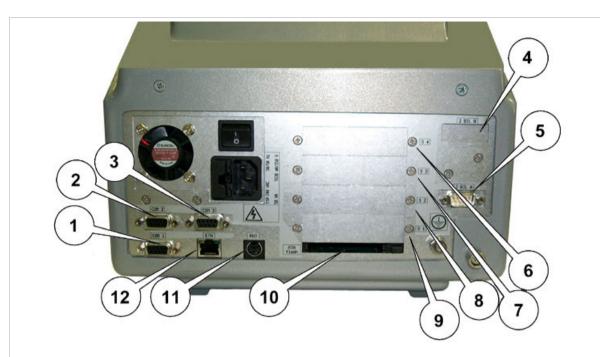
3. DELIVERY AND INSTALLATION

Key

1. Earthing screw
2. Data plate indicating the connection voltage and frequency ratings, and the type of fuses
3. Threepole make power connector
4. Fuses
5. ON/OFF switch

Figure 3.1 - Rear part of terminal (power supplier part) *(citi5003.jpg)*

Key

1. 9-pin female connector (JCOM1) for serial connections to the various devices
2. 9-pin female connector (JCOM2) for serial connections to the printer
3. 9-pin female connector (JCOM3) for serial connections to the various devices
4. 9-pin male connector (JBIL-B) for connection to the second optional weighing platform
5. 9-pin male connector (JBIL-A) for connection to the first weighing platform
6. Expansion slot S4
7. Expansion slot S3
8. Expansion slot S2
9. Expansion slot S1
10. Slot for memory card
11. Supplementary keyboard-mouse input
12. Ethernet

Figure 3.2 - Rear part of terminal (part with scale connection and auxiliary outputs) *(citi5004.jpg)*

3.1 Connection of the terminal to the electricity main

⚠ DANGER ⚠

Check that:

✔ *the voltage and frequency of the electricity main correspond to the indications on the warning plate affixed to the rear of the terminal (see point 2 Figure 3.1 on page 1-19);*

✔ *the mains outlet socket to which the terminal is connected is equipped with an earth;*

✔ *the warning and danger plates are affixed to the casing enclosing the instrument;*

✔ *failing this, notify your maintenance personnel or contact our Assistance Service directly.*

Proceed in the following way to connect the terminal to the electricity main in the correct way:

✔ insert the threepole connector of the power lead into the rear part of the terminal;

✔ insert the plug of the power lead into the right power socket;

The terminal complies with the European Directive governing electromagnetic compatibility, however it is good practice to provide a separate power supply line for the terminal.

✋ WARNING ✋

To not route the terminal connection cables alongside power cables as these could cause interference that could prevent the terminal from operating in the correct way. Only use the connection cable supplied with the terminal. If the cable supplied is too short, do not attach an extension lead but contact the Manufacturer.

3.2 Connection of the terminal to the weighing platform

To connect the terminal to the weighing platform, the supply normally includes a pre-wired cable whose female connector must be inserted into the 9-pin male terminal (JBIL1 or 2) at the rear of the indicator (see point 5 *Figure 3.2 on page 1-20*). In the case of a duplex scale, scale A should be connected to connector JBILA while scale B should be connected to JBILB.

✋ WARNING ✋

The cable screen must always be connected to the metal protection cap of the 9-pin connector. Do not route the connection cable to the weighing platform together with cables routed to power drives.

3.2.1 Equipotentiality between terminal and weighing platform

Make sure that there is equipotentiality between the metal parts of the terminal and the weighing platform.

If there are doubts, connect the terminal and platform with an earth cable of at least 6mm², using the ground screw at the rear of the terminal (see point 1 *Figure 3.1 on page 1-19*).

The cables and accessories for this connection are not included in the supply but are at the customer's charge.

3.2.2 Analogue cell connection

The pinout of connector JBIL when connected to platforms formed by analogue cells is given below.

Key

NC = Stand-by. Do not connect

SIG + = + Signal

SIG - = - Signal

EX + = + Power supply

EX - = - Power supply

SENSE + = + SENSE signal

SENSE - = - SENSE signal
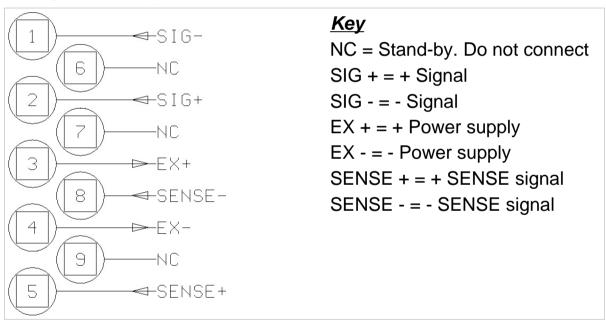
Figure 3.3 - JBIL connector pinout for connection to platforms made with analogue cells *(log0001.gif)*

3.3 COM1 - COM2 - COM3 serial output connection

The outputs of the instrument can be configured in the RS232/422/485 standards by means of internal jumpers.

The labels show which standard has been used.

Connection to the pins is given in the following table:

Pin	RS232	RS422	RS485
1	DCD	TX-	TX- / RX-
2	RX	TX+	TX+ / RX+
3	TX	RX-	
4	DTR	RX+	
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		
9	RI		

3.3.1 RS232/RS422/RS485 configuration connections

⚠️ATTENTION⚠️

Limits to use envisaged for standard RS232:

Maximum transmission distance = 15 m

Maximum voltage at ends = ± 12 Vdc

It is advisable to use a screened cable for connections to external devices. Remember to connect the screen to the metal part of the shell of the 9-pin connector.

⚠️ATTENTION⚠️

Limits to use envisaged for standard RS422:

Maximum transmission distance = 1,200 m

Maximum voltage at ends = ± 7V

It is advisable to use a screened cable of the "twisted pair" type for connections to external devices. Remember to connect the screen to the metal part of the shell of the 9-pin connector.

⚠️ATTENTION⚠️

Limits to use envisaged for standard RS485:

Maximum transmission distance = 1,200 m

Maximum voltage at ends = ± 7V

It is advisable to use a screened cable of the "twisted pair" type for connections to external devices. Remember to connect the screen to the metal part of the shell of the 9-pin connector.

Maximum number of terminals that can be connected = 16

3.4 Keyboard connection

There is an input for a compatible PC keyboard on connector KBD, at the rear of the indicator (point 11 of *Figure 3.2 on page 1-20*).

3.5 Fast Ethernet connection

The pin-out of 6 reflects the standard RJ45 Fast Ethernet 10/100 pin-out.

3.6 Printer connection

Unless different instructions are given, the external printer is connected to the terminal's COM 1 serial port using the supplied cable.

Two types of printer, with 2" or 4" printing heads, are available as required.

Consult the printer manual for further details.
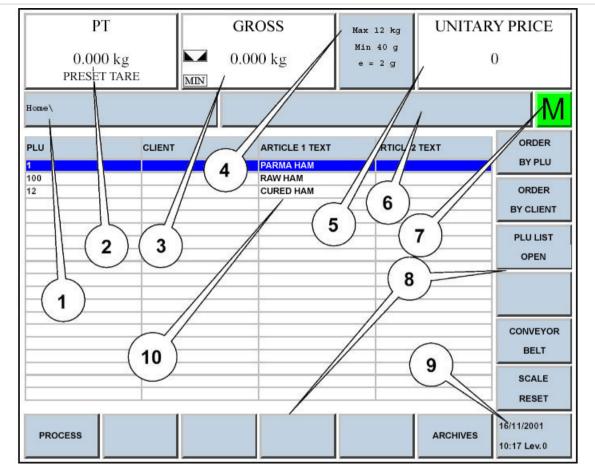
4. CONTROLS, DISPLAY, SWITCHING THE TERMINAL ON AND OFF

4.1 Front part (display and keyboard)

Key

1. Display
2. Function keys
3. Editing keys
4. Alphanumerical keyboard
5. Summing keys
6. Date keys

Figure 4.1 - Front part of terminal *(citi5005.jpg)*

4.2 Display

Key

1. Area that displays the pathway of the activated menu
2. Area that displays the preset tare value in the selected unit of measurement (kg or lb)
3. Area that displays the weight in the selected unit of measurement (kg or lb)
4. Area that displays the metrological data: maximum capacity, minimum capacity, division
5. Area that displays the unitary price in the selected currency and unit of measurement
6. Area that displays messages for the operator
7. Area that displays the legal instrument (M)
8. Area that displays the function keys and macrofunctions
9. Area that displays the date and time of the system, lev. activated
10. Area for displaying and entering processing data and archives

Figure 4.2 - LCD display *(citi5006-en.jpg)*

4.2.1 Pathway area

See point 1 of *Figure 4.2 on page 1-28*.

This area contains the complete pathway of the current position in the menu tree. The pathway can also be given in an abbreviated form (e.g.: `Home\Arch.\BC\`), while it appears in full in the manual (e.g.: `Home\Archives\Barcode\`).

4.2.2 Tare area

See point 2 of *Figure 4.2 on page 1-28*.

kg,lb	***Unit of measurement of the tare weight***
PT	***Preset tare entered in PLU***

4.2.3 Weight area

See point 3 of *Figure 4.2 on page 1-28*.

kg,lb   ***Unit of measurement of the tare weight***

◣◥   ***Stable weight symbol***
             Indicates that the displayed weight is stable and can be printed and/or transmitted.

→0←   ***"Center zero" symbol***
             Indicates that the weight detected by the platform is near zero, between -1/4 + 1/4 of the division.

GROSS   ***Gross weight symbol***

MIN   ***Minimum weight***

NET   ***Net weight symbol***

W1 W2 W3   ***Indication of the weighing range for multiextension instruments (ME)***

4.2.4 Metrological data area

See point 4 of *Figure 4.2 on page 1-28*.

Max   ***Maximum capacity of the scale***
Min   ***Minimum capacity***
e   ***Division***

4.2.5 Price area

See point 5 of *Figure 4.2 on page 1-28*.

The unitary price is displayed in this area with the currency set in the current PLU.

Example: the following message will appear if the Euro has been selected as principal currency:

UNITARY PRICE

12.90 Euro

Figure 4.3 - Price area *(citi5007-en.jpg)*

4.2.6 Message area

See point 6 of *Figure 4.2 on page 1-28*.

The messages for the operator appear in this area. The error messages appear in a window in the middle of the display.

4.2.7 Symbol M (Metrological) area

See point 7 of *Figure 4.2 on page 1-28*.

M on a green background

Means that the net weight value printed on the label in kg is a variable weight and has been defected on the scale plate. It is therefore a valid and correct metrological data item.

crossed M on a red background

Indicates every other situation differing from the one described in the previous point.

4.2.8 Functions area

See point 8 of *Figure 4.2 on page 1-28*.
The functions in this zone can be activated by pressing the corresponding keys F1 ... F12. Some of the functions can also be programmed by means of macro functions.

4.2.9 Date, time and level area

See point 9 of *Figure 4.2 on page 1-28*.

Date	**Given in the dd/mm/yyyy format**
Time	**Given in the hh:mm format (hh from 00 to 23)**
Level	**The currently selected operating level is shown on a coloured background**

4.2.10 Settings area

See point 10 of *Figure 4.2 on page 1-28*.
Area in which the data items of the various archives appear, with the headings at the top.

4.3 Keyboard

4.3.1 Groups of keys

The keys have been grouped according to the colour of their background.

Key

1. Display
2. Function keys
3. Editing keys
4. Alphanumerical keyboard
5. Summing keys
6. Date keys

Figure 4.4 - Keyboard *(citi5005.jpg)*

4.3.2 Function keys (orange background)

See point 2 of *Figure 4.4 on page 1-32*.

F1   Particular functions indicated in the corresponding

""""   part of the display.
""""
""""

F12

4.3.3 Date keys (purple background)

See point 6 of *Figure 4.4 on page 1-32*.

DATA 1   Dates to be printed on the labels being
                                programmed.

DATA 2

DATA 3

TARA PT   Quickly calls up the tare and allows it to be
                                modified during the process.

4.3.4 Summing keys (purple background)

See point 5 of *Figure 4.4 on page 1-32*.

Σ_1 Prints and displays total 1, 2 and 3.

Σ_2

Σ_3

Σ Allows the total to be printed to be selected.

4.3.5 Alphanumerical keys (light blue and grey background)

See point 4 of *Figure 4.4 on page 1-32*.

Produces the lower case "e" if pressed on its own.

If pressed together with key ⬆ produces the capital "E" letter.

If key 🔒 has been pressed, the capital letter will be formed automatically.

If pressed together with key **2nd** produces the symbol denoting the Euro (shown in the top

right-hand part of the key). Press the **PROGRAM** key first and then the alphanumerical key to quickly recall the PLU associated with the number on the top left-hand part of the same key. This function is in the main menu mask. It is disabled during the archive programming phase.

Produces the number shown (e.g. 1) if pressed on its own.

If pressed together with key **2nd** produces the symbol depicted at the top right (e.g.: "~")

If pressed together with key ⬆ , produces the symbol depicted at the top left (e.g."!").

Produces the depicted letter if pressed on its own (e.g.: "è").

If pressed together with key **2nd** , produces the symbol depicted at the top right (e.g.: "e"). If

pressed together with key ⬆ , produces the symbol depicted at the top left (e.g.: "è").

4.3.6 Editing keys (black background)

See points 3 of *Figure 4.4 on page 1-32*.

ESC	Allows the operator to return to the previous menu or to annul an operation.
	Colon and slash characters.
HOME	Returns to the starting mask.
	Goes straight to the end of the list.
	Goes straight to the beginning of the list.
	Goes straight to the end of the page.
	Goes straight to the beginning of the page.
	Backspace.
	Keys used to move the cursor. Press these keys to move the cursor within the display.
	Allows the capital letters to be formed when pressed in conjunction with the letter keys.
CTRL	Accesses special functions when pressed at the same time as other keys.
ALT	

Caps lock: used when the text must be written in capital letters.

Tab.

Erasing keys. Erases the character that has just been entered.

When pressed at the same time as other keys, allows the special characters on their right-hand side to be recalled and used.

Enter and confirm key. It will be indicated by the word **ENTER** . in this manual. When a dialogue window with the word **CONFIRM** appears, press

ENTER to confirm the option proposed (see *Figure 4.5 on page 1-37*).

Allows the operator to access a contextual guide in-line.

Allows the last label printed to be repeated.

Allows the plu (number at the top left of the keys) to be recalled in the fast mode when pressed at the same time as other keys.
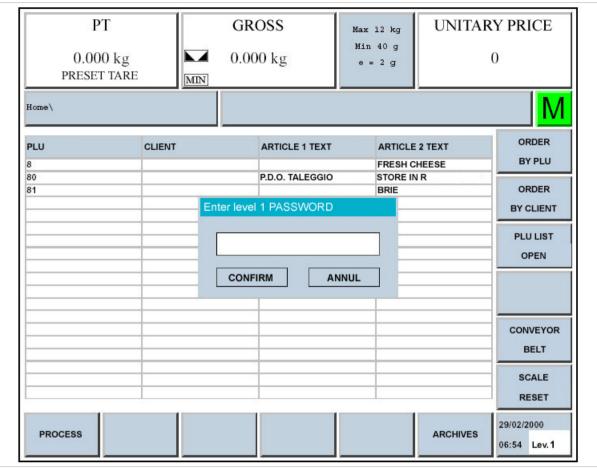
4.4 Switching the terminal on and off

Key

1. ON/OFF switch

Figure 4.6 - On-off switch *(citi5009.jpg)*

⚠ **DANGER** ⚠

Make sure that the protective casing is in a perfect condition before powering the terminal.

If the terminal is wall mounted on an electrical panel, there must be a main switch that disconnects the power from the entire panel.

Contact your internal maintenance manager to identify this switch.

Press the switch at the rear (see point 1 *Figure 4.6 on page 1-38*) and set it to position:

I   to power the terminal;

O   to turn it off.

4.4.1 BOOT phase

The boot phase of the system occurs when the machine is powered with information about the keys to press in the event of an emergency procedure.

✔ Press **ESC** to stop the boot phase and activate the FTP server.

✔ Press **CTRL** + **R** to recover the archives.

5. USE OF THE TERMINAL - PROGRAMMING

5.1 Convention

The following text will only indicate the pathway to follow without referring to the keys that must be pressed. For example, the pathway shown below will be given when a product code must be changed:

Home\Process\Data Modification\Product

(see symbols in *par. 1.3 on page 1-10*).

The complete pathway appears in the display area indicated in point 1 of *Figure 4.2 on page 1-28*. Also consult *par. 4.2.1 on page 1-29*.

Use key [ENTER] to confirm the entry of a data item or at access a submenu.

Press [ESC] to return to the previous menu.

When reference is made to **selection** of a menu, it means that the arrows can be used to move to the desired item which can then be

confirmed with [ENTER] .

5.2 Operating levels

5.2.1 Introduction

The purpose of the operating levels is to simplify the weighing and data entry operations, while making them more secure. At the lowest levels, the operator can only start the machine working, choose the PLU and use the pre-programmed information. Since he need not worry about entering data, he can work in a faster and more secure way. Using the macro functions, the operator can only edit those data be is able to access (e.g. the price, lot, dates, etc.), depending on the case in question. If the operator needs to edit parameters at higher levels, this can be done by accessing them with a password. In this case, the work becomes more versatile, but more liable to errors and slow-downs. When powered, the machine presents level **0**, which is the lowest level.

5.2.2 List of levels

5 levels are used in Cigiemme terminals and are described below.

LEVEL 0	Level at which the operator can merely access the process and used any macros that may have been set.
LEVEL 1	Level at which the PLU and texts are programmed.
LEVEL 2	Level at which all the programming phase of all the archives can be accessed.
LEVEL 3	Level that can be programmed by the user.
LEVEL 4	Level that can be programmed by the user.
LEVEL 5	Level at which various and network configurations within the operator's grasp can be set-up and at which maintenance operations can be carried out.

5.2.3 Level changes

To change operating level, press ALT at the same time as the required

level number (for example, ALT **+ 4** to access the 4th level) and enter
the password.

5.2.4 Change Password

Passwords can only be entered at 5th level, the default access
password of which is "555555".
To change one or more passwords, you must access level 5.
Follow the pathway below to go to level 5:

✔ *Home\Archives\Setups\Password*

STARTING LEVEL	0
LEVEL PASSWORD	111111
LEVEL PASSWORD	222222
LEVEL PASSWORD	333333
LEVEL PASSWORD	444444
LEVEL PASSWORD	555555

✔ Select the level where the password must be changed.

✔ Digitize the new password and press ENTER .

✔ Press *SAVE*.

5.2.5 Access level changes on powering

When powered, the machine presents level **0**, which is the lowest level.

To change one or more passwords, you must access level 5.

Follow the pathway below to go to level 5:

✔ *Home \ Archives \ Setups \ Password*
✔ Select line

STARTING LEVEL	0

✔ Press **ENTER** .

✔ Digitize the new level between 1 and 5 and press **ENTER** .
✔ Press *SAVE*.
✔ The machine will start from the selected level when powered the next time.

5.2.6 Functions of the operating levels

LEVEL	OPERATOR	FUNCTIONS
0	BASIC	**PROCESSING**
		- PIECE REVERSAL
		- TOT_1 REVERSAL
		- PRINT TOTALS
		ORDER BY PLU
		ORDER BY CLIENT
		PLU LIST OPEN
		REPRINT TOTALS
		SCALE RESET
1	DEPT. HEAD	**PROCESSING**
		- DATA MODIFICATION
		- - **CODES**
		- - - CLIENT
		- - - PROD. CODE
		- - - BATCH
		- - - LOT
		- - - PRODUCT
		- - **INDICOD**
		- - - PRODUCT INDICOD
		- - - TOT1 INDICOD
		- - - TOT2 INDICOD
		- - **WEIGHTS**
		- - - WGT MEASUREMENT UNIT
		- - - PROD. TARE
		- - - PROD. % TARE
		- - - PRINT PROD. TARE
		- - - PACKING TARE (TOT1)
		- - - PRINT TARE (TOT1)
		- - - PALLET TARE (TOT2)

LEVEL	OPERATOR	FUNCTIONS
		- - - PRINT TARE (TOT2)
		- - - PRINT GROSS
		- - - PRINT WEIGHT SYMBOL
		- - - FIXED DATA
		- - - FIXED WEIGHT
		- - - FIXED AMOUNT
		- - RANGE
		- - - LOW. WGT LIMIT
		- - - UPP. WGT LIMIT
		- - - RANGE TYPE
		- - CURRENCIES
		- - - PRIMARY CURRENCY
		- - - NUM. DECIMALS 1
		- - - ROUNDING-OFF 1
		- - - PRIMARY CURRENCY SYMBOL
		- - - PRICE
		- - - PRINT PRIMARY PRICE
		- - - PRINT PRIMARY AMOUNT
		- - - SECONDARY CURRENCY
		- - - NUM. DECIMALS 2
		- - - ROUNDING-OFF 2
		- - - SECONDARY CURRENCY SYMBOL
		- - - PRIM. -SEC. CURRENCY CONV.
		- - - PRINT SEC. PRICE
		- - - PRINT SEC. AMOUNT
		- - - PRINT CURRENCY SYMBOL
		- - DATES
		- - - PRODUCTION DATE
		- - - PRODUCTION DATE TEXT
		- - - PRINT PRODUCTION DATE

LEVEL	OPERATOR	FUNCTIONS
		- - - EXPIRY DATE
		- - - EXPIRY DATE TEXT
		- - - PRINT EXPIRY DATE
		- - - CURING DATE
		- - - CURING DATE TEXT
		- - - PRINT CURING DATE
		- - - PRINT TIME
		- - PRESELECTIONS
		- - - TOT1 PIECE PRESELCT.
		- - - TOT1 WGT PRESELCT.
		- - - TOT2 PIECE PRESELCT.
		- - - TOT2 WGT PRESELECT.
		- - - PIECE PROCESS. LIMIT
		- - - WGT PROCESS. LIMIT
		- - - PIECES WEIGHED
		- - ARTICLE TEXTS
		- - - ARTICLE 1 TEXT
		- - - ARTICLE 2 TEXT
		- - - ARTICLE 3 TEXT
		- - - ARTICLE 4 TEXT
		- - - ARTICLE 5 TEXT
		- - - ARTICLE 6 TEXT
		- - - ARTICLE 7 TEXT
		- - - ARTICLE 8 TEXT
		- - - ARTICLE 9 TEXT
		- - - ARTICLE 10 TEXT
		- - - ARTICLE 11 TEXT
		- - - ARTICLE 12 TEXT
		- - - ARTICLE 13 TEXT
		- - - ARTICLE 14 TEXT

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - ARTICLE 15 TEXT
		- - - ARTICLE 16 TEXT
		- - - ARTICLE 17 TEXT
		- - - ARTICLE 18 TEXT
		- - - ARTICLE 19 TEXT
		- - - ARTICLE 20 TEXT
		- - LABELS
		- - - PRODUCT LABEL
		- - - TOT1 LABEL
		- - - TOT2 LABEL
		- - CONSECUTIVES
		- - - PIECE CONS.
		- - - PRINT PIECE CONS.
		- - - TOT1 CONS.
		- - - PRINT TOT1 CONS.
		- - - TOT2 CONS.
		- - - PRINT TOT2 CONS.
		- - TOTALS
		- - - TOT1 PIECE NUM
		- - - TOT1 kg NET WEIGHT
		- - - TOT1 kg TARE
		- - - TOT1 kg GROSS WEIGHT
		- - - TOT1 lb NET WEIGHT
		- - - TOT1 lb TARE
		- - - TOT1 lb GROSS WEIGHT
		- - - TOT2 PIECE NUM
		- - - NUM. BOXES IN TOT2
		- - - TOT2 kg NET WEIGHT
		- - - TOT2 kg TARE
		- - - TOT2 kg GROSS WEIGHT

LEVEL	OPERATOR	FUNCTIONS
		- - - TOT2 lb NET WEIGHT
		- - - TOT2 lb TARE
		- - - TOT2 lb GROSS WEIGHT
		- - - PLU PIECE NUM
		- - - NUM. PLU BOXES
		- - - NUM. PLU PALLETS
		- - - PLU kg NET WEIGHT
		- - - PLU kg TARE
		- - - PLU kg GROSS WEIGHT
		- - - PLU lb NET WEIGHT
		- - - PLU lb TARE
		- - - PLU lb GROSS WEIGHT
		- - - AV. PIECE WGT kg
		- - - AV. PIECE WGT lb
		- PIECE REVERSAL
		- TOT_1 REVERSAL
		- PRINT TOTALS
		ARCHIVES
		- PLU
		- TEXTS
		- GENERAL TOTALS
		- MACRO (viewing only)
		ORDER BY PLU
		ORDER BY CLIENT
		PLU LIST OPEN
		REPRINT TOTALS
		SCALE RESET
2	AREA MANAGER	**PROCESSING**
		- DATA MODIFICATION
		- - CODES

LEVEL	OPERATOR	FUNCTIONS
		- - - CLIENT
		- - - PROD. CODE
		- - - BATCH
		- - - LOT
		- - - PRODUCT
		- - INDICOD
		- - - PRODUCT INDICOD
		- - - TOT1 INDICOD
		- - - TOT2 INDICOD
		- - WEIGHTS
		- - - WGT MEASUREMENT UNIT
		- - - PROD. TARE
		- - - PROD. % TARE
		- - - PRINT PROD. TARE
		- - - PACKING TARE (TOT1)
		- - - PRINT TARE (TOT1)
		- - - PALLET TARE (TOT2)
		- - - PRINT TARE (TOT2)
		- - - PRINT GROSS
		- - - PRINT WEIGHT SYMBOL
		- - - FIXED DATA
		- - - FIXED WEIGHT
		- - - FIXED AMOUNT
		- - RANGE
		- - - LOW. WGT LIMIT
		- - - UPP. WGT LIMIT
		- - - RANGE TYPE
		- - CURRENCIES
		- - - PRIMARY CURRENCY
		- - - NUM. DECIMALS 1

LEVEL	OPERATOR	FUNCTIONS
		- - - ROUNDING-OFF 1
		- - - PRIMARY CURRENCY SYMBOL
		- - - PRICE
		- - - PRINT PRIMARY PRICE
		- - - PRINT PRIMARY AMOUNT
		- - - SECONDARY CURRENCY
		- - - NUM. DECIMALS 2
		- - - ROUNDING-OFF 2
		- - - SECONDARY CURRENCY SYMBOL
		- - - PRIM. -SEC. CURRENCY CONV.
		- - - PRINT SEC. PRICE
		- - - PRINT SEC. AMOUNT
		- - - PRINT CURRENCY SYMBOL
		- - DATES
		- - - PRODUCTION DATE
		- - - PRODUCTION DATE TEXT
		- - - PRINT PRODUCTION DATE
		- - - EXPIRY DATE
		- - - EXPIRY DATE TEXT
		- - - PRINT EXPIRY DATE
		- - - CURING DATE
		- - - CURING DATE TEXT
		- - - PRINT CURING DATE
		- - - PRINT TIME
		- - PRESELECTIONS
		- - - TOT1 PIECE PRESELCT.
		- - - TOT1 WGT PRESELCT.
		- - - TOT2 PIECE PRESELCT.
		- - - TOT2 WGT PRESELECT.
		- - - PIECE PROCESS. LIMIT

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - WGT PROCESS. LIMIT
		- - - PIECES WEIGHED
		- - ARTICLE TEXTS
		- - - ARTICLE 1 TEXT
		- - - ARTICLE 2 TEXT
		- - - ARTICLE 3 TEXT
		- - - ARTICLE 4 TEXT
		- - - ARTICLE 5 TEXT
		- - - ARTICLE 6 TEXT
		- - - ARTICLE 7 TEXT
		- - - ARTICLE 8 TEXT
		- - - ARTICLE 9 TEXT
		- - - ARTICLE 10 TEXT
		- - - ARTICLE 11 TEXT
		- - - ARTICLE 12 TEXT
		- - - ARTICLE 13 TEXT
		- - - ARTICLE 14 TEXT
		- - - ARTICLE 15 TEXT
		- - - ARTICLE 16 TEXT
		- - - ARTICLE 17 TEXT
		- - - ARTICLE 18 TEXT
		- - - ARTICLE 19 TEXT
		- - - ARTICLE 20 TEXT
		- - LABELS
		- - - PRODUCT LABEL
		- - - TOT1 LABEL
		- - - TOT2 LABEL
		- - CONSECUTIVES
		- - - PIECE CONS.
		- - - PRINT PIECE CONS.

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - TOT1 CONS.
		- - - PRINT TOT1 CONS.
		- - - TOT2 CONS.
		- - - PRINT TOT2 CONS.
		- - TOTALS
		- - - TOT1 PIECE NUM
		- - - TOT1 kg NET WEIGHT
		- - - TOT1 kg TARE
		- - - TOT1 kg GROSS WEIGHT
		- - - TOT1 lb NET WEIGHT
		- - - TOT1 lb TARE
		- - - TOT1 lb GROSS WEIGHT
		- - - TOT2 PIECE NUM
		- - - NUM. BOXES IN TOT2
		- - - TOT2 kg NET WEIGHT
		- - - TOT2 kg TARE
		- - - TOT2 kg GROSS WEIGHT
		- - - TOT2 lb NET WEIGHT
		- - - TOT2 lb TARE
		- - - TOT2 lb GROSS WEIGHT
		- - - PLU PIECE NUM
		- - - NUM. PLU BOXES
		- - - NUM. PLU PALLETS
		- - - PLU kg NET WEIGHT
		- - - PLU kg TARE
		- - - PLU kg GROSS WEIGHT
		- - - PLU lb NET WEIGHT
		- - - PLU lb TARE
		- - - PLU lb GROSS WEIGHT
		- - - AV. PIECE WGT kg

LEVEL	OPERATOR	FUNCTIONS
		- - - AV. PIECE WGT lb
		- PIECE REVERSAL
		- TOT_1 REVERSAL
		- PRINT TOTALS
		ARCHIVES
		- PLU
		- LAB
		- TEXTS
		- BARCODE
		- IMAGES
		- GENERAL TOTALS
		- MACRO (viewing only)
		ORDER BY PLU
		ORDER BY CLIENT
		PLU LIST OPEN
		REPRINT TOTALS
		SCALE RESET
3		**PROGRAMMABLE LEVEL**
4		**PROGRAMMABLE LEVEL**
5		**PROCESSING**
		- DATA MODIFICATION
		- - CODES
		- - - CLIENT
		- - - PROD. CODE
		- - - BATCH
		- - - LOT
		- - - PRODUCT
		- - INDICOD
		- - - PRODUCT INDICOD
		- - - TOT1 INDICOD

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - TOT2 INDICOD
		- - WEIGHTS
		- - - WGT MEASUREMENT UNIT
		- - - PROD. TARE
		- - - PROD. % TARE
		- - - PRINT PROD. TARE
		- - - PACKING TARE (TOT1)
		- - - PRINT TARE (TOT1)
		- - - PALLET TARE (TOT2)
		- - - PRINT TARE (TOT2)
		- - - PRINT GROSS
		- - - PRINT WEIGHT SYMBOL
		- - - FIXED DATA
		- - - FIXED WEIGHT
		- - - FIXED AMOUNT
		- - RANGE
		- - - LOW. WGT LIMIT
		- - - UPP. WGT LIMIT
		- - - RANGE TYPE
		- - CURRENCIES
		- - - PRIMARY CURRENCY
		- - - NUM. DECIMALS 1
		- - - ROUNDING-OFF 1
		- - - PRIMARY CURRENCY SYMBOL
		- - - PRICE
		- - - PRINT PRIMARY PRICE
		- - - PRINT PRIMARY AMOUNT
		- - - SECONDARY CURRENCY
		- - - NUM. DECIMALS 2
		- - - ROUNDING-OFF 2

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - SECONDARY CURRENCY SYMBOL
		- - - PRIM. -SEC. CURRENCY CONV.
		- - - PRINT SEC. PRICE
		- - - PRINT SEC. AMOUNT
		- - - PRINT CURRENCY SYMBOL
		- - DATES
		- - - PRODUCTION DATE
		- - - PRODUCTION DATE TEXT
		- - - PRINT PRODUCTION DATE
		- - - EXPIRY DATE
		- - - EXPIRY DATE TEXT
		- - - PRINT EXPIRY DATE
		- - - CURING DATE
		- - - CURING DATE TEXT
		- - - PRINT CURING DATE
		- - - PRINT TIME
		- - PRESELECTIONS
		- - - TOT1 PIECE PRESELCT.
		- - - TOT1 WGT PRESELCT.
		- - - TOT2 PIECE PRESELCT.
		- - - TOT2 WGT PRESELECT.
		- - - PIECE PROCESS. LIMIT
		- - - WGT PROCESS. LIMIT
		- - - PIECES WEIGHED
		- - ARTICLE TEXTS
		- - - ARTICLE 1 TEXT
		- - - ARTICLE 2 TEXT
		- - - ARTICLE 3 TEXT
		- - - ARTICLE 4 TEXT
		- - - ARTICLE 5 TEXT

LEVEL	*OPERATOR*	*FUNCTIONS*
		- - - ARTICLE 6 TEXT
		- - - ARTICLE 7 TEXT
		- - - ARTICLE 8 TEXT
		- - - ARTICLE 9 TEXT
		- - - ARTICLE 10 TEXT
		- - - ARTICLE 11 TEXT
		- - - ARTICLE 12 TEXT
		- - - ARTICLE 13 TEXT
		- - - ARTICLE 14 TEXT
		- - - ARTICLE 15 TEXT
		- - - ARTICLE 16 TEXT
		- - - ARTICLE 17 TEXT
		- - - ARTICLE 18 TEXT
		- - - ARTICLE 19 TEXT
		- - - ARTICLE 20 TEXT
		- - LABELS
		- - - PRODUCT LABEL
		- - - TOT1 LABEL
		- - - TOT2 LABEL
		- - CONSECUTIVES
		- - - PIECE CONS.
		- - - PRINT PIECE CONS.
		- - - TOT1 CONS.
		- - - PRINT TOT1 CONS.
		- - - TOT2 CONS.
		- - - PRINT TOT2 CONS.
		- - TOTALS
		- - - TOT1 PIECE NUM
		- - - TOT1 kg NET WEIGHT
		- - - TOT1 kg TARE

LEVEL	OPERATOR	FUNCTIONS
		- - - TOT1 kg GROSS WEIGHT
		- - - TOT1 lb NET WEIGHT
		- - - TOT1 lb TARE
		- - - TOT1 lb GROSS WEIGHT
		- - - TOT2 PIECE NUM
		- - - NUM. BOXES IN TOT2
		- - - TOT2 kg NET WEIGHT
		- - - TOT2 kg TARE
		- - - TOT2 kg GROSS WEIGHT
		- - - TOT2 lb NET WEIGHT
		- - - TOT2 lb TARE
		- - - TOT2 lb GROSS WEIGHT
		- - - PLU PIECE NUM
		- - - NUM. PLU BOXES
		- - - NUM. PLU PALLETS
		- - - PLU kg NET WEIGHT
		- - - PLU kg TARE
		- - - PLU kg GROSS WEIGHT
		- - - PLU lb NET WEIGHT
		- - - PLU lb TARE
		- - - PLU lb GROSS WEIGHT
		- - - AV. PIECE WGT kg
		- - - AV. PIECE WGT lb
		- PIECE REVERSAL
		- TOT_1 REVERSAL
		- PRINT TOTALS
		ARCHIVES
		- PLU
		- LAB
		- TEXTS

LEVEL	*OPERATOR*	*FUNCTIONS*
		- BARCODE
		- IMAGES
		- GENERAL TOTALS
		- MACRO (viewing only)
		- SETTINGS
		- - NETWORK
		- - PASSWORD
		- - TIME - DATE
		- - VARIOUS
		- - LOGGER
		- - I / O TEST
		- - PTR TEST
		- - BACKUP RESTORE
		- - OLD CGM SERIAL
		ORDER BY PLU
		ORDER BY CLIENT
		PLU LIST OPEN
		REPRINT TOTALS
		SCALE RESET

5.3 Macro area

5.3.1 Introduction

The "macro functions" allow you to associate a function or data item of the portioning machine to a function key, in a clear and simple way. This association simply occurs the first time the operating sequence that accesses the value to be changed is memorized. Memorizing can then be associated with any vacant key. As part of the standard supply, the machine comes with the following macros already activated:

Date 1
Date 2
Date 3
Tare

5.3.2 How to program a macro function

Proceed in the following way to program a macro function:

✔ With the machine running, move from the process to the "DATA MODIFICATION" menu.

✔ Press keys **ALT** and M at the same time.
✔ A mask will now appear asking you to name the macro function to be recorded (e.g. "Price"). Digitize the required name and confirm.
✔ The message "Macro Registration Phase Activated" will appear at the top right-hand side of the display.
✔ Move to the field to be edited using the arrows (e.g. price).

✔ Select the field (e.g. the highlighted price) and press **ENTER** .
✔ The message "Field selected..." (e.g. "field selected: unitary price") will appear at the top right-hand side of the display.

✔ Close the memorizing phase of the macro by pressing **ALT** and M at the same time.

✔ Return to the process, with the machine operating.

✔ To associate the programmed macro with a key, press keys **ALT** and A at the same time.

✔ A mask with the request to "Select Macro File" will appear, with a list of the recorded macros.

✔ Select the programmed macro (e.g. "Price") and confirm.

✔ The "Macro text 1" mask will appear. This request concerns the name to put on the key that will be selected. The text consists of two separate lines of 10 characters each. The first is requested in this mask: enter the first part of the name and confirm (e.g.: CHANGE + **ENTER**).

✔ The mask requesting the "Macro text 2" will appear, requiring entry of a second line of 10 characters describing the key: enter the second part of the name and confirm (e.g.: PRICE + **ENTER**).

✔ The message "MACRO REGISTRATION PHASE ACTIVATED" will appear at the top right-hand side of the display.

✔ Press the key to which the macro is to be assigned (e.g.: **F12** , which will become CHANGE PRICE).

5.3.3 How to erase a macro function

Proceed in the following way to erase a macro function:

✔ Access the processing mask (machine operating) and press keys

ALT and E at the same time.

✔ The message "MACRO ERASING PHASE ACTIVATED" will appear at the top right-hand side of the display.

✔ Press the function key that must be eliminated (e.g.: **F12** , CHANGE PRICE, which will disappear.

5.3.4 Macro display

✔ To display the existing macros, follow the pathway
Home\Archives\Macro

✔ Only the OPEN menu, where a macro can be displayed, is available at level 2

5.4 User menu tree

A description of the user menus and relative levels in hierarchical order is given below.

HOME
   F1_PROCESS
      F1_STOP
      F2_DATA EDITING
      F3_PIECE REVERSAL
      F4_TOTAL 1 REVERSAL
      F5_PRINT TOTALS
   F6_ARCHIVES
      F1_PLU
         F1_SAVE
         F2_NEW
         F3_COPY
         F4_ERASE
         F7_ORDER PER PLU
         F8_ORDER PER CLIENT
         F9_PLU OPEN LIST
      F2_LAB
         F1_SAVE
         F2_NEW
         F3_COPY
         F4_ERASE
      F3_TEXTS
         F1_SAVE
         F2_NEW
         F3_COPY
         F4_ERASE
         F7_DISPLAY ALL
         F8_INGREDIENTS
         F9_PRODUCTS
         F10_LABEL TEXTS
         F12_FIND TEXT
      F4_BARCODE
         F1_SAVE
         F2_NEW
         F3_COPY
         F4_ERASE
         F7_DISPLAY ALL
         F8_APPLY FILTER
      F5_IMAGES
         F1_SAVE
         F2_NEW
         F3_COPY
         F4_ERASE
         F7_MEMORIZE IN PTR
      F7_GENERAL TOTALS
         F1_TOTAL
         F2_ANNUL
         F7_CLOSE TOTAL
         F12_RESET TOTALS
      F11_MACRO
         F1_OPEN

```
        F2_SAVE
        F3_NEW
        F4_COPY
        F5_ERASE
    F12_SETTINGS
        F1_TERMINAL SETTINGS
        F2_NETWORK
        F3_PASSWORD
        F4_TIME - DATE
        F5_VARIOUS
            F1_SAVE
            F2_ANNUL
            F7_ERASE MATCH
            F8_CHANGE CECIP SYMBOL
        F6_LOGGER SETTINGS
            F1_SAVE
            F2_ANNUL
            F7_DISPLAY LOGGER
            F8_ERASE LOGGER
        F7_I/O TEST
            F1_UPDATE INPUT
            F2_UPDATE OUTPUT
            F3_UPDATE COUNTER
            F7_UPDATE OUTPUT
            F8_DEACTIVATE OUTPUT
            F9_SET MOTOR SPEED
        F8_TEST PTR
        F9_COUNTER SETTINGS
        F10_RESTORE BACKUP
            F1_DOM BACKUP
            F2_FLASH BACKUP
            F3_FLASH RESTORE
            F5_LAST DOM BACKUP
            F6_LAST FLASH BACKUP
            F12_FLASH FORMAT
        F11_OLD CGM SERIAL
    F7_ORDER PER PLU
    F8_ORDER PER CLIENT
    F9_PLU OPEN LIST
    F10_REPRINT TOTALS
    F12_RESET SCALE
```

Descriptions of the main menus are given below:

SAVE   Allows the changes made to the archive in question to be saved in the memory.

NEW   Allows a new record to be entered, beginning from a completely empty one.

COPY   Allows a copy of the original to be created (but called a different name).

CANCEL   Used to cancel the selected record.

5.5 How to program the texts

5.5.1 Introduction

Texts can be programmed from level 1 onwards. This function allows all the printable texts, from descriptions of the product to ingredients, to be entered and serviced. This can be done regardless of whether the texts are fixed ones on the label or texts that vary depending on the PLU. Fixed texts are associated straight ro the label layout in a simple and automatic way. Variable texts are associated with the PLU to the extent of 20 variable texts containing 70 characters each.

5.5.2 Text archive

The archive contains and memorizes all the texts and descriptions to print on the labels and is organized in the following way:

TEXT   Gives the memorizing number of the text, from 0 to 999999999.

CATEGORY   Identifies the type of text: Ingredient, product, Label text.

CONTENTS   Effectively contains the text to be printed (70 characters).

New texts can be memorized in the archive, existing ones edited, texts copied and texts erased.

5.5.3 How to enter a text

✔ Go to level 1.

✔ Follow the pathway *Home\Archives\Texts*.

This accesses the texts archive where you can create, copy and edit texts concerning ingredients, products and fixed texts. The following mask will appear:
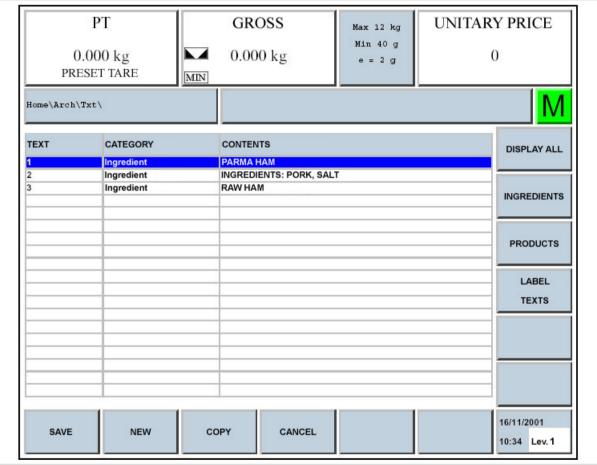

Figure 5.1 - Text archive *(citi5010-en.jpg)*

Press the [F2] (**NEW**) key to access a mask where you will be requested to enter a new text number. After the text number has been

entered (numeric data item from 0 to 999999999), press [ENTER] to access a mask where a description of up to 70 characters can be entered (e.g.: Grana Padano).

Confirm with **ENTER** and this information will be memorized in the texts archive which will give the word ingredient under the **CATEGORY** heading.
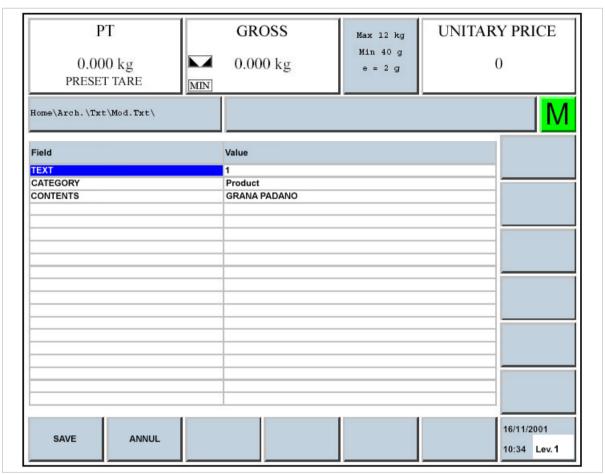
Highlight the newly entered text, then press **ENTER** . The following mask will appear:

PT 0.000 kg PRESET TARE	GROSS ◣◢ MIN 0.000 kg	Max 12 kg Min 40 g e = 2 g	UNITARY PRICE 0

Home\Arch.\Txt\Mod.Txt\   **M**

Field	Value
TEXT	1
CATEGORY	Product
CONTENTS	GRANA PADANO

SAVE	ANNUL				16/11/2001 10:34 Lev. 1

Figure 5.2 - Text editing and entry page *(citi5011-en.jpg)*

Highlight the **CATEGORY** item and press **ENTER** to access a mask containing the list of CATEGORIES, which are:

✔ **Ingredients**
✔ **Product**
✔ **Label text**

Select the category to which the entered text refers, then press

ENTER and the item will be added to the Texts archive. If the text must be modified again, move to the **CONTENTS** item and then press

ENTER to be able to edit the description. Press **ENTER** to enter the description in the Texts archive.

The text will be definitively memorized when the archive is quitted by

pressing **F1** (**SAVE**).

The mask that now appears contains a list of all the texts entered. You

can now proceed by entering a new text with key **F2** (**NEW**).

The keys on the right-hand side of the screen are used to display the list of texts entered, grouping them depending on the **CATEGORY** to which they belong. This makes it easier to search for an item when the Plu is formed.

These keys are:

F7   **DISPLAY ALL**

F8   **INGREDIENTS**

F9   **PRODUCTS**

F10   **LABEL TEXTS**

There is an alternative method for assigning a category to a text at the same time it is entered. To do this, first select the category and then use **NEW** to enter the text.

5.5.4 How to copy a text

To use the **F3** (**COPY**) key, first highlight the required key and then

press **F3** (**COPY**). This will access a mask asking you to enter the

new text number. Do this and press **ENTER** to enter it in the database
of the machine.

5.5.5 How to erase a text

To use the **F4** (**CANCEL**) key, first explore the list of texts, highlight

the required one and then press **F4** (**CANCEL**). This will access a
mask asking you to confirm the selected text before it is erased. Do this

and press **ENTER** to erase the text from the machine's database. Use

the **ESC** key to annul the cancellation process and allow the text to
remain memorized.

5.5.6 How to find a text

Texts or parts of texts can be searched within the texts archive by

digitizing the required word on the keyboard and pressing `F12` (**FIND TEXT**).

When a word or part of a word is digitized, the operator can see what he/she is writing in the operator's message display area (see point 6 of *Figure 4.2 on page 1-28*).

If `F12` (**FIND TEXT**) is pressed again, the machine will search for repeats, if any.

5.5.7 Preset texts

The terminal contains preset texts which can be used to handle all the labels or for some of the options, like packing list management.

✋ **WARNING** ✋

To not cancel preset texts as this could lead to operating faults.

List of preset texts

10001	Ingredient	List of Product Weights:
10002	Ingredient	Product Weighing List:
10003	Ingredient	N.Piece
10004	Ingredient	N.Pezzo
10005	Ingredient	N.Box
10006	Ingredient	N.Cartone
10007	Ingredient	Pieces Total
10008	Ingredient	Totale pezzi
10009	Ingredient	Tare Weight
10010	Ingredient	Peso Tara
10011	Ingredient	(kg/lb)
10012	Ingredient	Brut Weight
10013	Ingredient	Peso Lordo
10014	Ingredient	Net Weight
10015	Ingredient	Peso Netto
10016	Ingredient	Pallet Total nr.
10017	Ingredient	Totale Bancale nr.
10018	Ingredient	Pallet Tare
10019	Ingredient	Tara Bancale
10020	Ingredient	Pallet Brut Weight
10021	Ingredient	Peso Lordo Bancale
10022	Ingredient	Pallet Net Weight
10023	Ingredient	Peso Netto Bancale
10024	Ingredient	Totale Cartone
10025	Ingredient	Box Total
10028	Ingredient	Totale Bancale
10029	Ingredient	Pallet Total

10030	Label text	CONSECUTIVE PIECE
10031	Label text	CONSECUTIVE TOT 1
10032	Label text	CONSECUTIVE TOT 2
10033	Label text	N.PIECES IN TOT 1
10034	Label text	N.PIECES IN TOT 2
10035	Label text	N.BOXES IN TOT 2
10036	Ingredient	Packing List
10037	Ingredient	Gross Weight
10038	Ingredient	Pallet Gross Weight
10039	Ingredient	Tot n. Bx.
10040	Ingredient	Tot n. Boxes
10041	Ingredient	Boxes
10042	Ingredient	Tot pcs.
10043	Ingredient	Tot n. pcs
10044	Ingredient	in Pallet
20000	Label text	GENERAL TOTAL
20001	Label text	PARTIAL TOTAL
20002	Label text	CLIENT TOTAL
20003	Label text	PRODUCT TOTAL
20004	Label text	BATCH TOTAL
20005	Label text	LOT TOTAL
20006	Label text	TOTAL TRACEABILITY
20007	Label text	PRODUCT CODE TOTAL
20008	Label text	LOT
20009	Label text	PRODUCT
20010	Label text	PLU
20011	Label text	TRACEABILITY
20012	Label text	CLIENT

20013	Label text	TOTAL N° PIECES
20014	Label text	NET WEIGHT
20015	Label text	GROSS WEIGHT
20016	Label text	TARE
20017	Label text	TOTAL LOT - PRODUCT
20018	Label text	TOTAL LOT - PLU
20019	Label text	TRACE. -PRODUCT TOTAL
20020	Label text	TRACE. - PLU TOTAL
20021	Label text	CLIENT - PRODUCT TOTAL

5.6 Label programming

5.6.1 Label archive

The archive contains and memorizes all the label formats that need to be printed.

New labels can be memorized in the archive, existing ones edited, copies made and labels erased. The label formats can be printed straight away in order to make sure that the layout is correct.

5.6.2 How to create a label in the correct way

The weighing-pricing machine is a metrologically approved instrument. It is therefore subject to the European and national rules and regulations governing weighing systems. Correct use of the machine is therefore governed by a few simple rules that particularly concern the label:

✔ The net weight must always appear on the label.

✔ The weight values must always be represented along with the unit of measurement (0.234 kg, 1.25 lb).

✔ If other weight values are specified, it is necessary to indicate which is the net weight (e.g. NET WEIGHT: 0.256 kg). If only one weight is given, it is understood that this is the net weight.

✔ If the label gives weights resulting from arithmetical calculations which are not directly measured by the weighing system, it is advisable to add the phrase "Values obtained by arithmetical calculations" to the label.

5.6.3 How to enter a label

✔ Go to level 2.
✔ Follow the pathway `Home\Archives\Labels`.

This accesses the labels archive where you can create, copy and edit the label formats memorized in the machine. The following mask will appear:
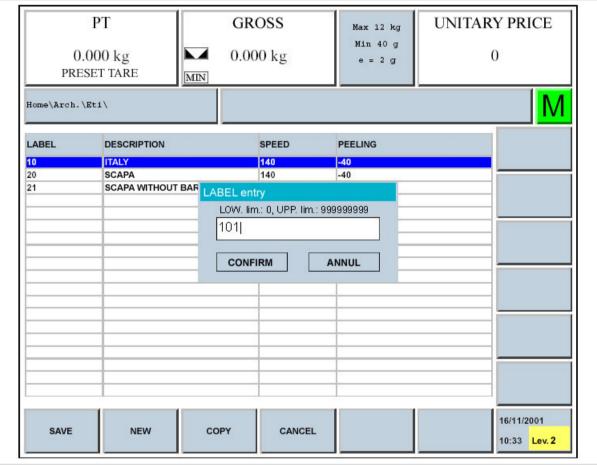

Figure 5.3 - Label archive *(citi5012-en.jpg)*

Press the **F2** (**NEW**) key to access a mask where you will be requested to enter a new label format number. After the label format number has been entered (numeric data item from 0 to 999999999),

press **ENTER** and the new label format will be added to the archive. Now go back to the "Label Archive" mask (*Figure 5.4 on page 1-76*) where the newly entered label will be highlighted.
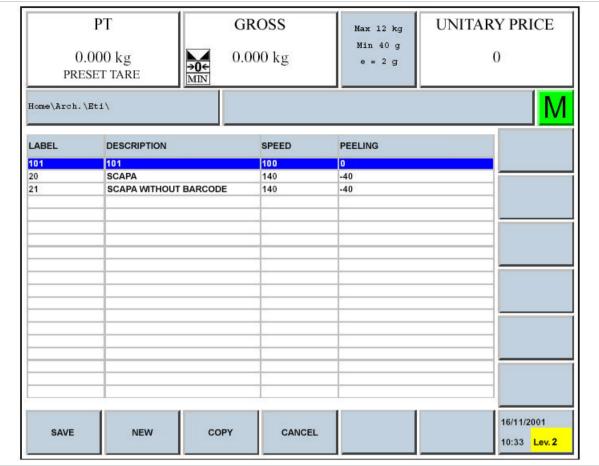
Figure 5.4 - Example of label format entry *(citi5013-en.jpg)*

With the line of the new label highlighted, press **ENTER** to enter the fields pertaining to the label format.
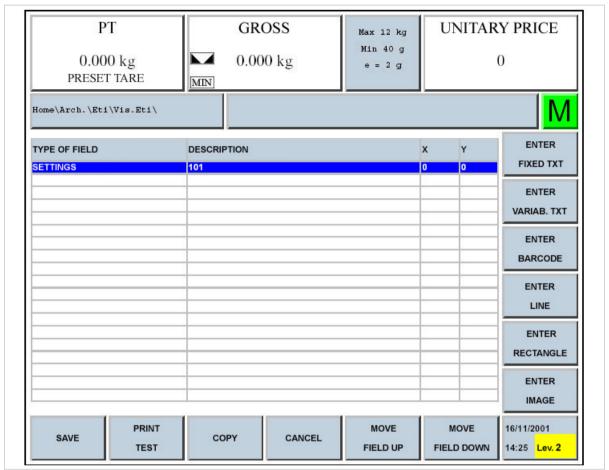
The following mask will appear:

Figure 5.5 - Label field editing and entry page *(citi5014-en.jpg)*

With the "settings" line highlighted, press [ENTER] to access the function where general information concerning the label format can be entered.
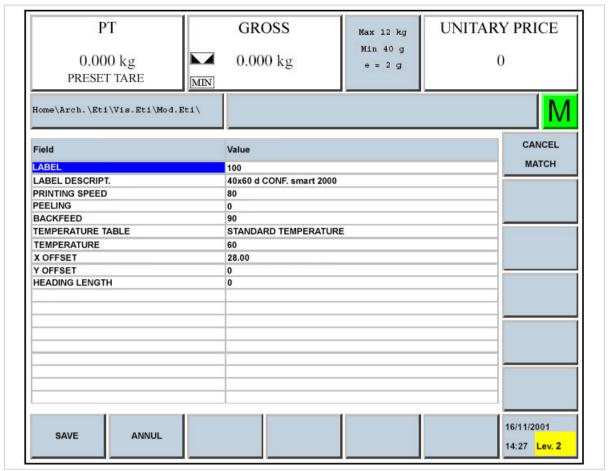
The following mask will appear:

Figure 5.6 - General layout information *(citi5015-en.jpg)*

The items in this menu can be highlighted and ENTER used to edit the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
LABEL DESCRIPT.	Alphanumerical data item - from 0 to 25	A description can be assigned so as to recognize the label. E.g. "Lab 1 price in Euro".
* PRINTING SPEED	Numeric data item - from 0 to 200	Printing speed in mm per second.
PEELING	Numeric data item - from -999 to 999	Label positioning in relation to the end of printing head (e.g. with negative values, the next label to print will not touch the printing head while with positive values, the label will project from the printing head and allow the siliconed paper of the printed label to be completely peeled off. (See **NOTE 1**).
* BACKFEED	Numeric data item - from 0 to 100	Allows the entire available label surface to be written over by retracting the label itself prior to printing. (See **NOTE 2**).
* TEMPERATURE TABLE	STANDARD TEMPERATURE OR LOW TEMPERATURE	Select standard temperature for thermal paper, low temperature for heat transfer paper.
* TEMPERATURE	Numeric data item - from 0 to 100%	Percentage of energy applied to the printing head depending on the "Temperature Table" used.
X OFFSET	Numeric data item - from 0 to 100 mm	Allows all fields created on the label to be moved horizontally in mm.
Y OFFSET	Numeric data item - from 0 to 100 mm	Allows all fields created on the label to be moved vertically in mm.
HEADING LENGTH	Numeric data item - from 0 to 999.9	See **NOTE 3**.

⚠ATTENTION⚠
_____ _____

*All fields marked * can only be displayed and edited from level 2 onwards.*

_____

NOTE 1: If this parameter is programmed with a different value from the previous one, the printer will re-align at the beginning of the process and will issue a few white labels.

NOTE 2: This space would not be used by peeling the label, i.e. if the label edge were to be positioned a few mm beyond the head. If BACKFEED is given a different value from 0, the label will retract a few mm prior to printing, thus allowing all the label space to be used. This parameter is only activated in machines where the BACKFEED option is activated: the production rate is obviously slowed down.

Once the general label layout information has been entered, press `F1` to memorize the data in the label archive and return to the mask where the label fields are edited and entered.

NOTE 3:

HOW TO CORRECTLY USE THE HEADING PARAMETER IN THE LABEL PROGRAMMING MODE

Correct use of this parameter, also allows you to print in the initial part of the label which was hitherto unprintable and proportional to the selected peeling value (the larger the peeling area expressed in dots, the larger is the initial unprintable area).

To use this option,you need electronic box with Italora 2.63my firmware release (2.74 for table labelling machines) or more recent releases.
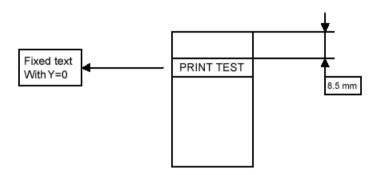
⚠ **ATTENTION** ⚠

THE HEADING SET-UP FUNCTION CANNOT BE USED WITH DESKTOP MACHINES SUCH AS WITTY.

Follow the procedure:

1. Program a label with the peeling value most suited to the processing requirements.
2. Program a data item (e.g. fixed text) in the label with coordinate Y = 0.
3. Measure the space between the beginning of the label at the top and the beginning of the writing.

    Multiply the space, measured in mm, for the printer resolution (8 or 12), thus obtaining the <u>heading</u> length expressed in dots.

Example with a -10 peeling value:

A 12-dot printer resolution obtains:

HEADING VALUE in dots 8.5 x 12 = 102

4. Enter 102 for the **HEADING** field and <u>decrease</u> the peeling value by the same amount:

   HEADING = 102

   PEELINGS = -10 - 102 = - 112

5. Save the changes and access the process without loading pieces.
6. Press the **FEED** key several times to feed out scrap labels and allow the printer to re-align with the layout.

   At this point, you will note that the initial part of the label under the head has already been printed.

   This option therefore allows the heading to be printed without two labels being peeled at the same time.

7. Start the Process.

Now proceed by entering the fields that must be printed on the newly entered label. This can be done with the function keys on the right-hand side of the screen, i.e.:

F7   **ENTER FIXED TXT**

F8   **ENTER VARIAB. TXT**

F9   **ENTER BARCODE**

F10   **ENTER LINE**

F11   **ENTER RECTANGLE**

F12   **ENTER IMAGE**

F7

ENTER FIXED TXT

Press **F7** to enter a field in the label format, where a fixed

alphanumerical text can be printed. Press **F7** and the following mask
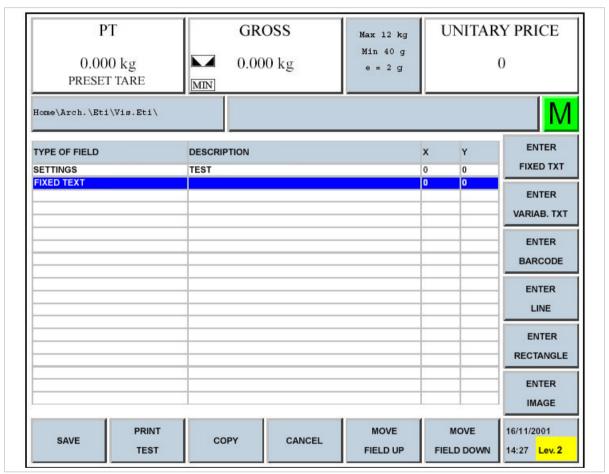will appear:

Figure 5.7 - Label field editing and entry page *(citi5016-en.jpg)*

With the "Fixed Text" line highlighted, press **ENTER** to access the
function where general information concerning the Fixed Text can be
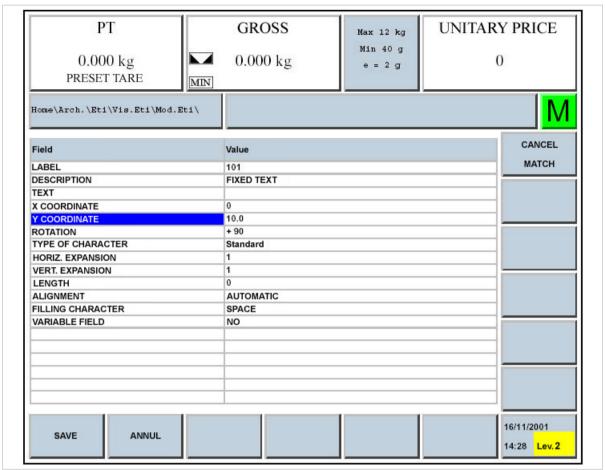entered.

The following mask will appear:

Figure 5.8 - Fixed text entry page *(citi5017-en.jpg)*

The items in this menu can be highlighted and **ENTER** used to edit the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the fixed text. "Preservation", for example.
TEXT	Archive	Allows you to access the texts archive and to select the text that must be printed.
X COORDINATE	Numeric data item - from 0 to 999.9mm	This is the value in mm of the horizontal position of the printing starting point of the "fixed text" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "fixed text" field in relation to the label.
ROTATION	Can be selected from: 0° / + 90° / +180° / + 270°	Rotation of the text field on the label
TYPE OF CHARACTER	List of print characters	The following print characters will be available: ✔ Standard ✔ Micro ✔ Big ✔ Draft ✔ Motor ✔ New Century ✔ Arial ✔ Title ✔ Compact ✔ Century ✔ Arial Rounded ✔ Bookman ✔ Switzerland
HORIZONTAL	Numeric data item -	Enlargement factor of the character

EXPANSION	from 0 to 99	in the horizontal direction.
VERTICAL EXPANSION	Numeric data item - from 0 to 99	Enlargement factor of the character in the vertical direction.
LENGTH	Numeric data item - from 0 to 70	
ALIGNMENT	Choice: Auto, Right, Left, Centered.	Aligns the text, taking the field length into account. If "automatic" is selected, the numbers are aligned on the right and the words on the left.
FILLING CHARACTER	Alphanumerical - 1 character	A space or any character handled by the program can be used.
VARIABLE FIELD	Choice: Yes or No.	**Yes =** the field is the variable type; **No =** the field is the fixed type;

Once the fixed text data have been entered, press [F1] to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.7 on page 1-84*).

F8

ENTER VARIAB. TXT

Press the **F8** to enter a field in the label format, where a variable alphanumerical text can be printed. The following mask will appear when the key is pressed:
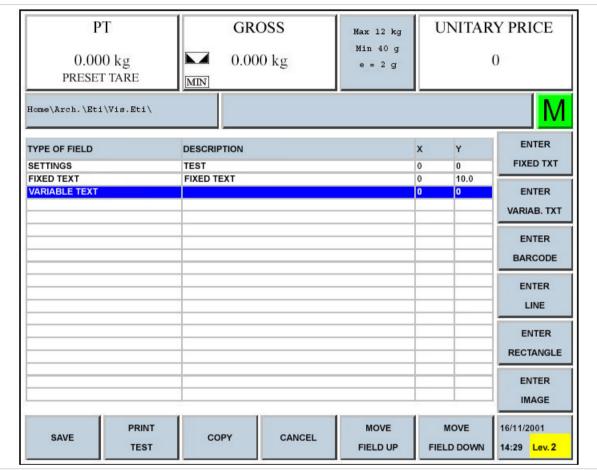

TYPE OF FIELD	DESCRIPTION	X	Y
SETTINGS	TEST	0	0
FIXED TEXT	FIXED TEXT	0	10.0
VARIABLE TEXT		0	0

Figure 5.9 - Label field editing and entry page *(citi5018-en.jpg)*

With the "Variable Text" line highlighted, press **ENTER** to access the function where general information concerning the Variable Text can be entered.
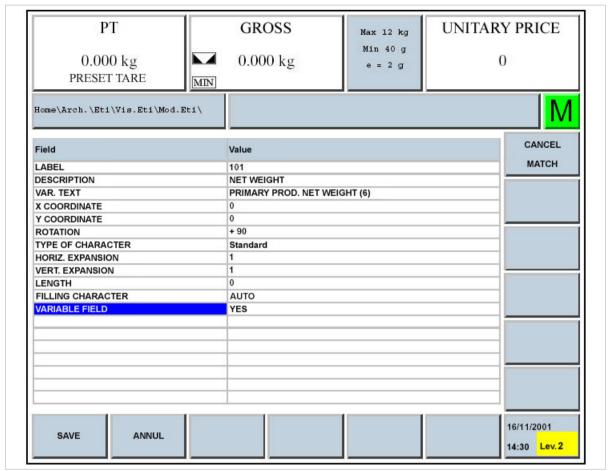
The following mask will appear:

Figure 5.10 - Variable text entry page *(citi5019-en.jpg)*

The items in this menu can be highlighted and **ENTER** used to access the selected one.

By selecting the VAR. TEXT item and pressing **ENTER** a window will appear where you can select the family to which the "Variable Text" that needs to be entered belongs.

One of three items can be selected (of which one depends on an optional function being selected):

✔ PROCESSING

✔ TOTALS

✔ TRACEABILITY

A variable text linked to the process is a data item associated with the previously weight product.

A variable text linked to the totals will allow totalizing values filtered through passwords to be put on the label.

It is important to remember that fields associated with the process (and vice versa) cannot be entered in a total label (see advanced user manual).

There is also a verification mechanism that can also signal a non-conforming field in a label.

The various menu items are described on the next page:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the variable text. "Net weight" for example.
PROCESS VARIABLE TEXT	List of variable texts (field length)	The following variable texts will be available: ✔ Primary product net weight (7) ✔ Primary prod. tare (7) ✔ Primary product gross weight (7) ✔ Secondary product net weight (7) ✔ Secondary prod. tare (7) ✔ Secondary product gross weight (7) ✔ Plu code (15) ✔ Product code (15) ✔ Client code (10) ✔ Lot code (15) ✔ Batch code (15) ✔ Product (15) ✔ Production Date (16) ✔ Expiry Date (16) ✔ Curing Date (16) ✔ Price per kg 1 currency (10) ✔ Amount 1 currency (10) ✔ Price per kg 2 currency (10) ✔ Amount 2 currency (10) ✔ Product Indicod (13) ✔ Tot 1 Indicod (13) ✔ Tot 2 Indicod (13) ✔ PLU 1 text (70) ✔ ... ✔ PLU 20 text (70) ✔ Production date text (70) ✔ Expiry date text (70)

		✔ Curing date text (70)
		✔ Consecutive piece (10)
		✔ Consecutive tot1 (10)
		✔ Consecutive tot2 (10)
		✔ Time (5)
		✔ N° pieces in tot1 (10)
		✔ Primary tot1 net weight (10)
		✔ Primary tot1 tare (10)
		✔ Primary tot1 gross weight (10)
		✔ Secondary tot1 net weight (10)
		✔ Secondary tot1 tare (10)
		✔ Secondary tot1 gross weight (10)
		✔ N° pieces in tot2 (10)
		✔ N° boxes in tot2 (10)
		✔ Primary tot2 net weight (10)
		✔ Primary tot2 tare (10)
		✔ Primary tot2 gross weight (10)
		✔ Secondary tot2 net weight (10)
		✔ Secondary tot2 tare (10)
		✔ Secondary tot2 gross weight (10)
		✔ N° pieces in PLU tot (10)
		✔ N° boxes in PLU tot (10)
		✔ N° pallets in PLU tot (10)
		✔ Primary PLU net weight (10)
		✔ Primary PLU tare (10)
		✔ Primary PLU gross weight (10)
		✔ Secondary PLU net weight (10)
		✔ Secondary PLU tare (10)
		✔ Secondary PLU gross weight (10)
		✔ Bayerland 13 char- txt 18
		✔ Bayerland 13 char- txt 19
		✔ Bayerland 15 char- txt 20
		✔ Machine counter activated (10)
		✔ Piece ptr.lab.n.count. (10)
		✔ Tot1 ptr.lab.n.count. (10)
		✔ Tot2 ptr.lab.n.count. (10)

		✔ Overall pieces n.count. (10) ✔ Overall tot1.n.count. (10) ✔ Overall tot2.n.count. (10) ✔ Over.tot1 tot2 n.count. (10) ✔ Total amount 1 currency 1 (10) ✔ Total amount 1 currency 2 (10) ✔ Barcode production date (16) ✔ Barcode expiry date (16) ✔ Barcode curing date (16)
TOTALS VARIABLE TEXT	List of variable texts (field length)	✔ TOT PASSWORD 1 (30) ✔ TOT PASSWORD 2 (15) ✔ TOT NET WEIGHT kg (10) ✔ TOT TARE kg (10) ✔ TOT GROSS WEIGHT kg (10) ✔ TOT NET WEIGHT lb (10) ✔ TOT TARE lb (10) ✔ TOT GROSS WEIGHT lb (10) ✔ TOT AMOUNT CURRENCY 1 (10) ✔ TOT AMOUNT CURRENCY 2 (10) ✔ NUMBER TOT PIECES (10)
X COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the horizontal position of the printing starting point of the "Variable text" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "Variable text" field in relation to the label.
ROTATION	Can be selected from: 0° / + 90° / +180° / + 270°	Rotation of the variable text field on the label
TYPE OF CHARACTER	List of print characters	The following print characters will be available: ✔ Standard ✔ Micro ✔ Big ✔ Draft

		✔ Motor ✔ New Century ✔ Arial ✔ Title ✔ Compact ✔ Century ✔ Arial Rounded ✔ Bookman ✔ Switzerland
HORIZONTAL EXPANSION	Numeric data item - from 0 to 99	Enlargement factor of the character in the horizontal direction.
VERTICAL EXPANSION	Numeric data item - from 0 to 99	Enlargement factor of the character in the vertical direction.
LENGTH	Numeric data item - from 0 to 70	
VARIABLE FIELD	Choice: Yes or No.	**Yes =** the field is the variable type; **No =** the field is the fixed type;

Once the variable text data have been entered, press **F1** to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.9 on page 1-88*).

F9

ENTER BARCODE

Press **F9** to enter a field in the label format, where a barcode can be printed. The following mask will appear when the key is pressed:
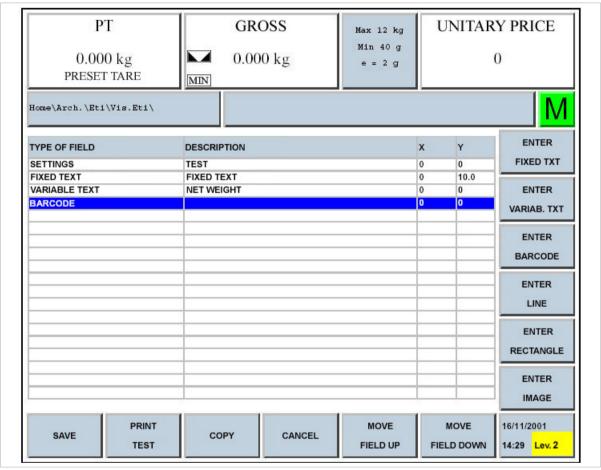

PT 0.000 kg PRESET TARE	**GROSS** ◣◥ 0.000 kg MIN	Max 12 kg Min 40 g e = 2 g	**UNITARY PRICE** 0		

Home\Arch.\Eti\Vis.Eti\ — **M**

TYPE OF FIELD	DESCRIPTION	X	Y	
SETTINGS	TEST	0	0	**ENTER FIXED TXT**
FIXED TEXT	FIXED TEXT	0	10.0	
VARIABLE TEXT	NET WEIGHT	0	0	**ENTER VARIAB. TXT**
BARCODE		0	0	
				ENTER BARCODE
				ENTER LINE
				ENTER RECTANGLE
				ENTER IMAGE

SAVE	PRINT TEST	COPY	CANCEL	MOVE FIELD UP	MOVE FIELD DOWN	16/11/2001 14:29 Lev. 2

Figure 5.11 - Label field editing and entry page *(citi5020-en.jpg)*

With the "Barcode" line highlighted, press **ENTER** to access the function where general information concerning the barcode can be entered.
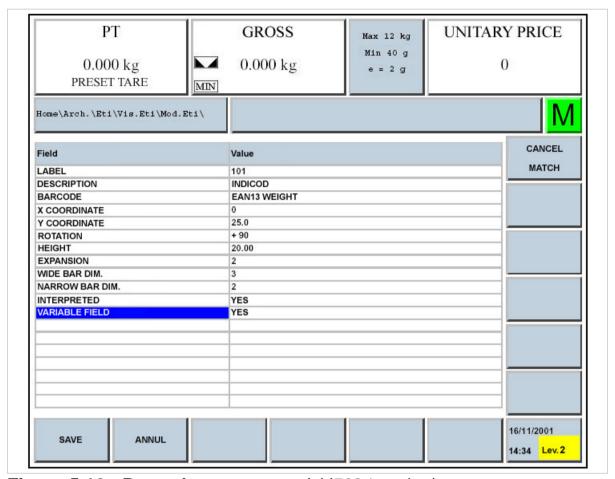
The following mask will appear:

PT	GROSS	Max 12 kg	UNITARY PRICE
0.000 kg	0.000 kg	Min 40 g	0
PRESET TARE	MIN	e = 2 g	

Home\Arch.\Eti\Vis.Eti\Mod.Eti\   M

Field	Value	
		CANCEL
		MATCH
LABEL	101	
DESCRIPTION	INDICOD	
BARCODE	EAN13 WEIGHT	
X COORDINATE	0	
Y COORDINATE	25.0	
ROTATION	+ 90	
HEIGHT	20.00	
EXPANSION	2	
WIDE BAR DIM.	3	
NARROW BAR DIM.	2	
INTERPRETED	YES	
VARIABLE FIELD	YES	

SAVE	ANNUL				16/11/2001
					14:34 Lev. 2

Figure 5.12 - Barcode entry page *(citi5021-en.jpg)*

The items in this menu can be highlighted and **ENTER** used to access the selected one.

The various menu items are described below:

| FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the barcode. "Ean 13 Macfrutt", for example.
BARCODE	Archive	Allows you to access the barcodes archive and to select the barcode that must be printed.
X COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the horizontal position of the printing starting point of the "barcode" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "barcode" field in relation to the label.
ROTATION	Can be selected from: 0° / + 90° / +180° / + 270°	Rotation of the barcode on the label
HEIGHT	Numeric data item - from 0 to 999.99 mm	Barcode printing height.
EXPANSION	Numeric data item - from 0 to 99	Width expansion of the barcode.
WIDE BAR DIM.	Numeric data item - from 0 to 99	Multiplication factor for the wide bar printing dots.
NARROW BAR DIM.	Numeric data item - from 0 to 99	Multiplication factor for the narrow bar printing dots.
INTERPRETED	Can be selected from: Yes or No.	**Yes =** the numbers the barcode represents appear in light letters under the barcode itself; **No =** no number appears under the barcode.
VARIABLE FIELD	Can be selected from: Yes or No.	**Yes =** the field is the variable type; **No =** the field is the fixed type;

Once the barcode data have been entered, press [F1] to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.11 on page 1-95*).

NOTE ABOUT BARCODES:

In `Home\Arch.\Lab\Dis.Lab\Lab.Mode`, the NARROW BAR DIM. field must <u>never</u> be zero.

In particular, a 1:0 wide-narrow ratio cannot be selected with the EAN 13 barcode as the program would be unable to print it correctly even though the barcode construction specifications do not allow for this ratio to be interpreted.

F10

ENTER LINE

Press **F10** to enter a field in the label format, where a line can be printed. The following mask will appear when the key is pressed:
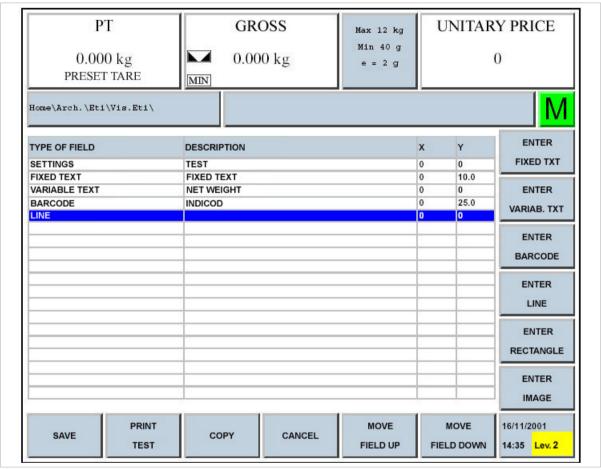
Figure 5.13 - Label field editing and entry page *(citi5022-en.jpg)*

With the "Line" line highlighted, press **ENTER** to access the function where general information concerning the line can be entered.

The following mask will appear:
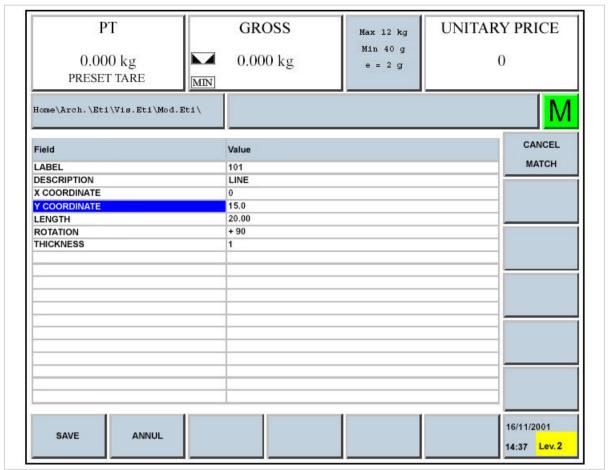
Figure 5.14 - Line entry page *(citi5023-en.jpg)*

The items in this menu can be highlighted and ENTER used to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the line. "Underline metric values", for example.
X COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the horizontal position of the printing starting point of the "line" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "line" field in relation to the label.
LENGTH	Numeric data item - from 0 to 999.99 mm	Length of the line in mm.
ROTATION	Can be selected from: 0° / + 90° / +180° / + 270	Rotation of the line on the label.
THICKNESS	Numeric data item - from 0 to 16	Line thickness in dots.

Once the line data have been entered, press F1 to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.13 on page 1-99*).

F11

ENTER RECTANGLE

Press **F11** to enter a field in the label format, where a rectangle can be printed. The following mask will appear when the key is pressed:
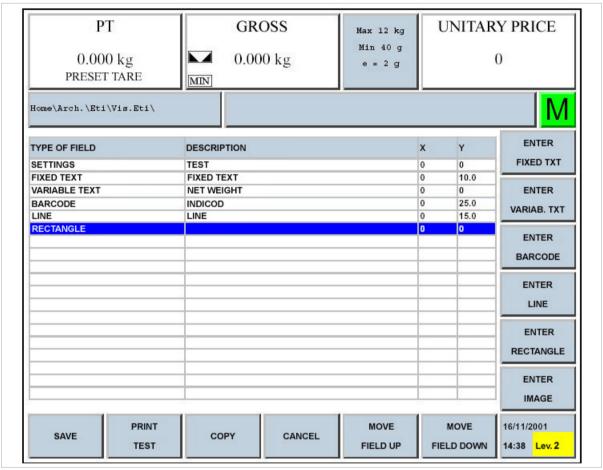

Figure 5.15 - Label field editing and entry page *(citi5024-en.jpg)*

With the "Rectangle" line highlighted, press **ENTER** to access the function where general information concerning the rectangle can be entered.
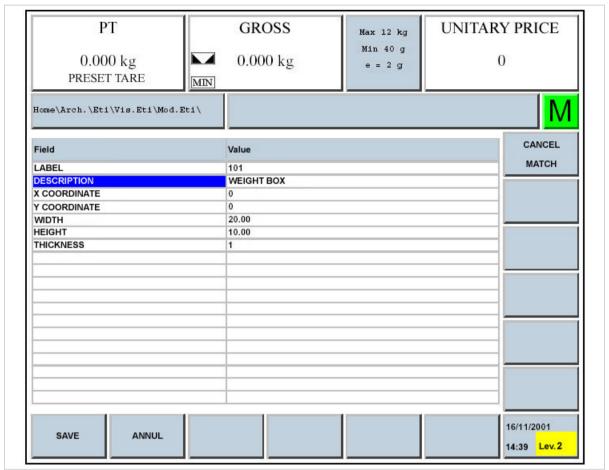
The following mask will appear:

Figure 5.16 - Rectangle entry page *(citi5025-en.jpg)*

The items in this menu can be highlighted and ENTER used to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the rectangle. "Delimit amount", for example.
X COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the horizontal position of the printing starting point of the "rectangle" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "rectangle" field in relation to the label.
WIDTH	Numeric data item - from 0 to 999.99 mm	Width of the rectangle.
HEIGHT	Numeric data item - from 0 to 999.99 mm	Height of the rectangle.
THICKNESS	Numeric data item - from 0 to 16	Line thickness in dots.

Once the rectangle data have been entered, press F1 to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.15 on page 1-102*).

F12

ENTER IMAGE

Press **F12** to enter a field in the label format, where an image can be printed. The following mask will appear when the key is pressed:
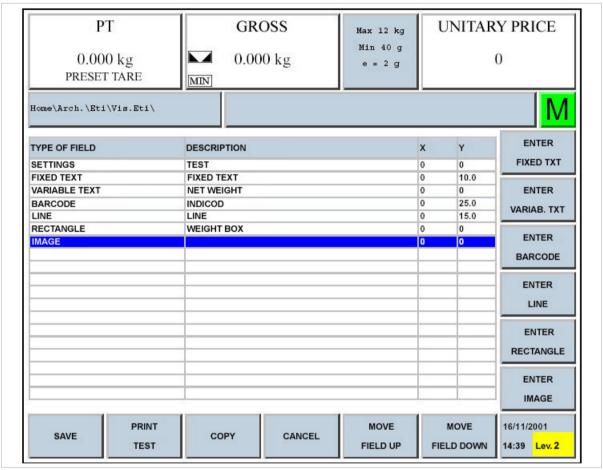

Figure 5.17 - Label field editing and entry page *(citi5026-en.jpg)*

With the "Image" line highlighted, press **ENTER** to access the function where general information concerning the image can be entered.
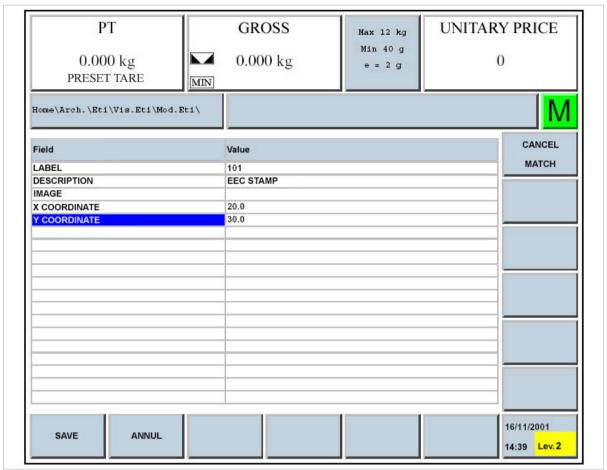
The following mask will appear:

Figure 5.18 - Image entry page *(citi5027-en.jpg)*

The items in this menu can be highlighted and **ENTER** used to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
LABEL	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the image. The "EEC logo", for example.
IMAGE	Archive	Allows you to access the images archive and to select the image to be printed.
X COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the horizontal position of the printing starting point of the "image" field in relation to the label.
Y COORDINATE	Numeric data item - from 0 to 999.9 mm	This is the value in mm of the vertical position of the printing starting point of the "image" field in relation to the label.

Once the image data have been entered, press ⬚ F1 to memorize them in the label archive and return to the mask where the label fields are edited and entered (see *Figure 5.17 on page 1-105*).

5.6.4 How to copy a label

✔ Go to level 2.
✔ Follow the pathway *Home\Archives\Labels*.
This accesses the labels archive where you can create, copy and edit the label formats memorized in the machine.

After having selected the label format to be copied, press **F3** (**COPY**) key to access a mask where you will be requested to enter the destination number (numeric data item from 0 to 999999999) of the new label. Confirm this data item to return to the mask with the label layout archive (*Figure 5.5 on page 1-77*) which will now include the newly copied label. A window with the message "Label already present" will appear if the number of a label already in the archive is entered.

5.6.5 How to cancel a label

✔ Go to level 2.
✔ Follow the pathway *Home\Archives\Labels*.

This accesses the labels archive where you can create, copy and edit the label formats memorized in the machine. The following mask will appear:
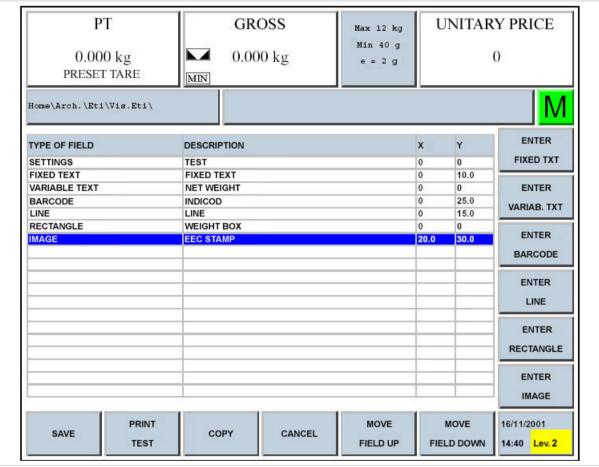

Figure 5.19 - Label layout editing and entry page *(citi5028-en.jpg)*

To use the [F4] (**CANCEL**) key, first explore the list of entered label formats, highlight the required one and then press [F4] (**CANCEL**). This will access a mask asking you to confirm the selected label format before it is erased. Do this and press [ENTER] to erase the label format from the machine's database. Use the [ESC] key to annul the

cancellation process and allow the label format to remain memorized.

5.6.6 How to print a label

The printed label can be obtained by pressing F2 (**PRINT**).

5.7 How to program barcodes

This option allows you to create and customize the barcodes as indicated below.

Access level 2 for this operation.

5.7.1 Barcode archive

The archive contains and memorizes all the barcodes that need to be printed and is organized in the following way:

BARCODE   Gives the memorizing number of the barcode, from 0 to 30000.

BARCODE TYPE   Identifies the barcode model entered.

DESCRIPTION   Identifies the name of the barcode format entered.

New barcodes can be memorized in the archive, existing ones edited, copies made and barcodes erased.

5.7.2 Barcode entry

✔ Go to level 2.

✔ Follow the pathway `Home\Archives\Barcode`.

This accesses the barcodes archive where you can create, copy and edit the barcode formats memorized in the machine. The following mask will appear:
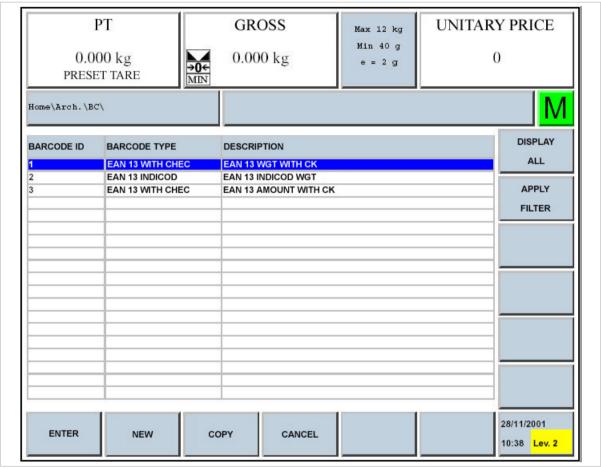

Figure 5.20 - Pagina modifica e inserimento archivio barcode
(citi5029-en.jpg)

Press the F2 (**NEW**) key to access a mask where you will be requested to enter a new barcode number. After the barcode number

has been entered (numeric data item from 0 to 30000), press ENTER and the new barcode will be added to the archive. Now go back to the "Barcode Archive" mask (*Figure 5.20 on page 1-112*) where the newly entered barcode will be highlighted.

The "Ean 13 without check digit" type of barcode will be automatically proposes, merely because it is the first barcode in the list of available ones.

With this barcode line highlighted, press **ENTER** to proceed by entering the information that forms the actual barcode itself. The following mask will appear:
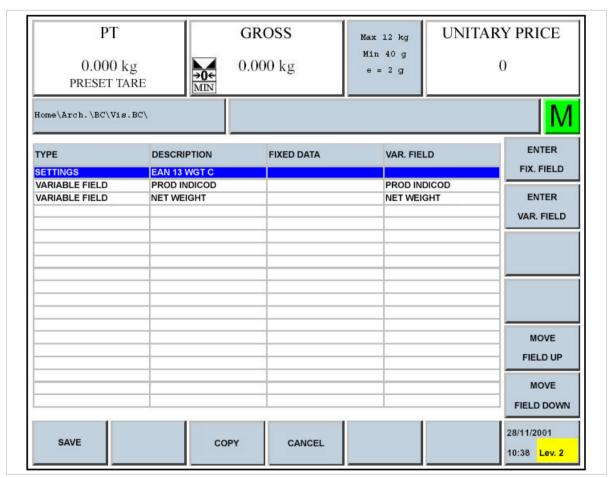

Figure 5.21 - Barcode field editing and entry page *(citi5030-en.jpg)*

With this entry line highlighted, press **ENTER** to enter both the description and structure of the barcode. The following mask will appear:
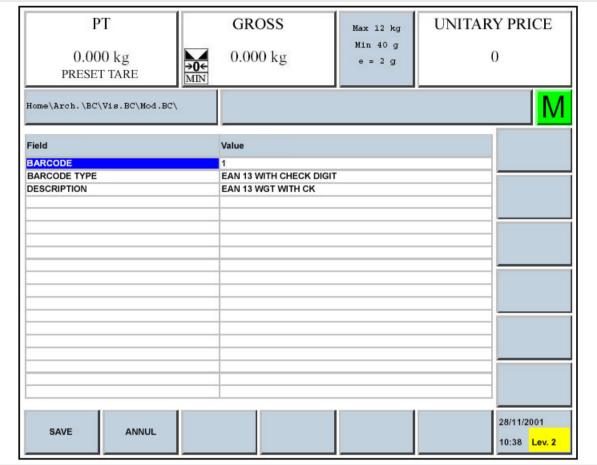

Figure 5.22 - Barcode model editing and entry page *(citi5031-en.jpg)*

The items in this menu can be highlighted and **ENTER** used to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
BARCODE	Numeric data item - from 0 to 30000	This cannot be edited as it is the barcode number memorized in the archive.
BARCODE TYPE	List of barcode models	The following barcode models will be available: ✔ Ean 13 without check digit ✔ Ean 13 with check digit ✔ Ean 13 + Add On 5 ✔ Ean 13 + Add On 2 ✔ Ean 8 without check digit ✔ Ean 8 with check digit ✔ Ean 128 A ✔ Ean 128 B ✔ Ean 128 C ✔ Code 128 ✔ 2/5 ✔ 2/5 Interland without check digit ✔ 2/5 Interland with check digit ✔ 3/9 without check digit ✔ 3/9 with check digit ✔ 3/9 Sinc $ without check digit ✔ 3/9 Sinc $ with check digit ✔ UPC A with check digit ✔ UPC B without check digit ✔ UPC E ✔ Codabar 2/7 Monarch AA ✔ Codabar 2/7 Monarch BB ✔ Codabar 2/7 Monarch CC ✔ Codabar 2/7 Monarch DD ✔ Codabar 2/7 Monarch AB ✔ Codabar 2/7 Monarch AC ✔ Codabar 2/7 Monarch AD ✔ Codabar 2/7 Monarch BA ✔ Codabar 2/7 Monarch BC ✔ Codabar 2/7 Monarch BD

		✔ Codabar 2/7 Monarch CA ✔ Codabar 2/7 Monarch CB ✔ Codabar 2/7 Monarch CD ✔ Codabar 2/7 Monarch DA ✔ Codabar 2/7 Monarch DB ✔ Codabar 2/7 Monarch DC ✔ Code 32 Pharmaceutical Ita ✔ Code PZN (PDF)
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the barcode. "Ean 13 barcode amount", for example.

Move to the BARCODE TYPE line, press **ENTER** and the following mask will appear:
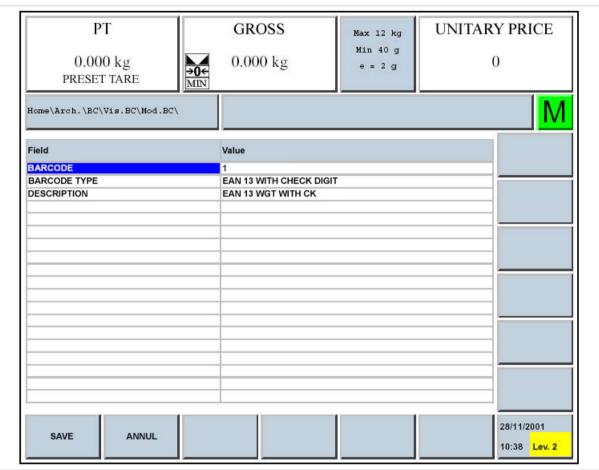

Figure 5.23 - Barcode field editing and entry page *(citi5032-en.jpg)*

Use the keys on the right-hand side of the screen to enter the fields that form the barcode.

F7	**ENTER FIX. FIELD**
F8	**ENTER VAR. FIELD**
F11	**MOVE FIELD UP**
F12	**MOVE FIELD DOWN**

Press **F7** (**ENTER FIX. FIELD**) to enter a fixed field in the barcode. The following mask will appear:
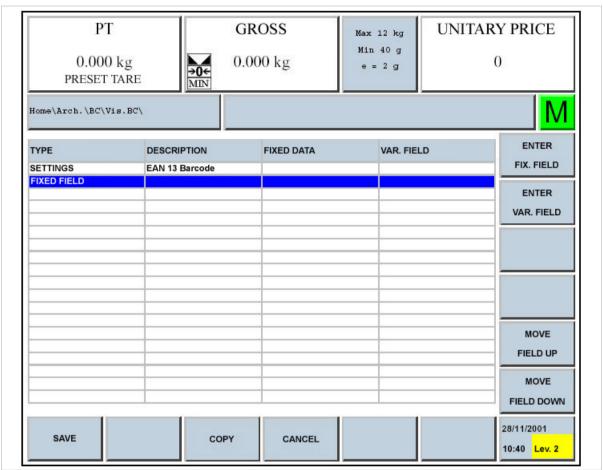

Figure 5.24 - Barcode field editing and entry page *(citi5033-en.jpg)*

With the "Fixed Field" item displayed, press **ENTER** to enter the values that concern this field.

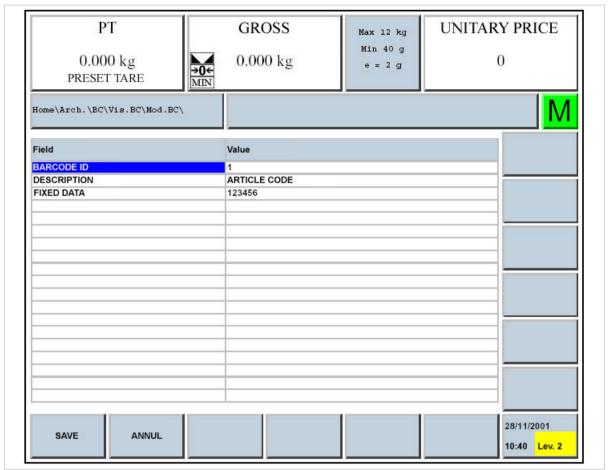The following mask will appear:

Figure 5.25 - Fixed field value entry page *(citi5034-en.jpg)*

Use the up and down arrows to highlight the items in this menu, then

use **ENTER** to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
BARCODE	Numeric data item - from 0 to 30000	This cannot be edited as it is the barcode number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the fixed field. "Article code", for example.
FIXED DATA	Numeric data item: up to 10 characters	A fixed number to print can be allocated. For example: 123456.

Press F1 (**SAVE**) to save the information in the barcode field. The following mask will appear:
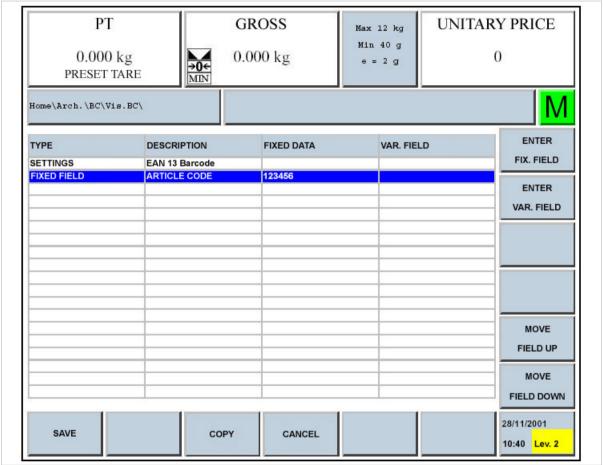
PT	GROSS	Max 12 kg	UNITARY PRICE
0.000 kg PRESET TARE	→0← MIN 0.000 kg	Min 40 g e = 2 g	0

Home\Arch.\BC\Vis.BC\   M

TYPE	DESCRIPTION	FIXED DATA	VAR. FIELD	
SETTINGS	EAN 13 Barcode			ENTER FIX. FIELD
FIXED FIELD	ARTICLE CODE	123456		ENTER VAR. FIELD
				MOVE FIELD UP
				MOVE FIELD DOWN

| SAVE | | COPY | CANCEL | | | 28/11/2001
10:40 Lev. 2 |

Figure 5.26 - Barcode field editing and entry page *(citi5035-en.jpg)*

Press **F8** (**ENTER VAR. FIELD**) to enter a variable field in the barcode. The following mask will appear:
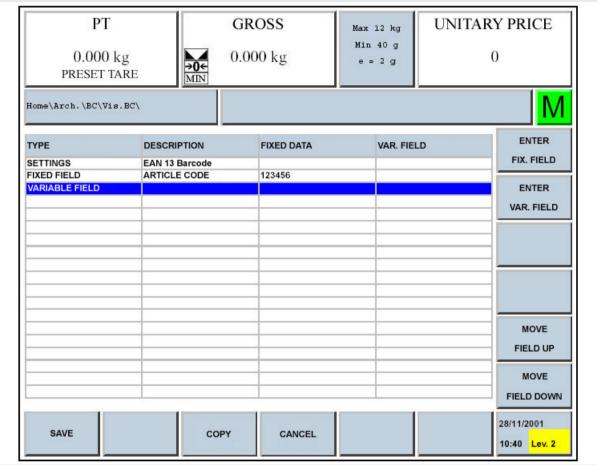

Figure 5.27 - Barcode field editing and entry page *(citi5036-en.jpg)*

With the "Variable Field" item displayed, press **ENTER** to enter the values that concern this field.
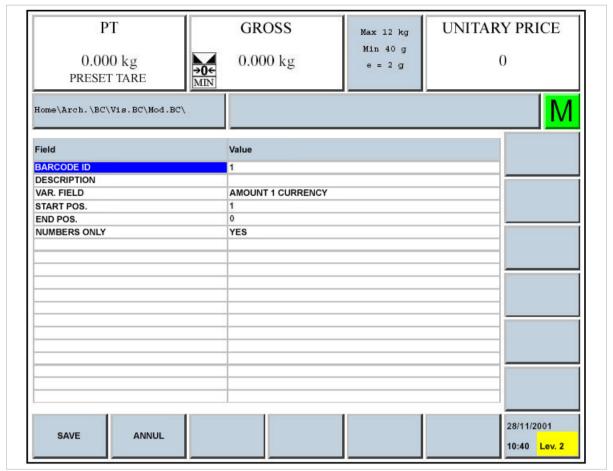
The following mask will appear:

Figure 5.28 - Variable field value entry page *(citi5037-en.jpg)*

The items in this menu can be highlighted and **ENTER** to access the selected one.

The various menu items are described below:

FIELD	TYPE AND LENGTH	DESCRIPTION
BARCODE	Numeric data item - from 0 to 999999999	This cannot be edited as it is the format number memorized in the archive.
DESCRIPTION	Alphanumerical data item - from 0 to 25 characters	A description can be assigned so as to recognize the variable text. "Net weight" for example.
VARIABLE FIELD	List of variable texts (field length)	The following variable texts will be available: ✔ Primary product net weight (7) ✔ Primary prod. tare (7) ✔ Primary product gross weight (7) ✔ Secondary product net weight (7) ✔ Secondary prod. tare (7) ✔ Secondary product gross weight (7) ✔ Plu code (15) ✔ Product code (15) ✔ Client code (10) ✔ Lot code (15) ✔ Batch code (15) ✔ Product (15) ✔ Production Date (16) ✔ Expiry Date (16) ✔ Curing Date (16) ✔ Price per kg 1 currency (10) ✔ Amount 1 currency (10) ✔ Price per kg 2 currency (10) ✔ Amount 2 currency (10) ✔ Product Indicod (13) ✔ Tot 1 Indicod (13) ✔ Tot 2 Indicod (13) ✔ PLU 1 text (70) ✔ ... ✔ PLU 20 text (70) ✔ Production date text (70)

		✔ Expiry date text (70)
		✔ Curing date text (70)
		✔ Consecutive piece (10)
		✔ Consecutive tot1 (10)
		✔ Consecutive tot2 (10)
		✔ Time (5)
		✔ N° pieces in tot1 (10)
		✔ Primary tot1 net weight (10)
		✔ Primary tot1 tare (10)
		✔ Primary tot1 gross weight (10)
		✔ Secondary tot1 net weight (10)
		✔ Secondary tot1 tare (10)
		✔ Secondary tot1 gross weight (10)
		✔ N° pieces in tot2 (10)
		✔ N° boxes in tot2 (10)
		✔ Primary tot2 net weight (10)
		✔ Primary tot2 tare (10)
		✔ Primary tot2 gross weight (10)
		✔ Secondary tot2 net weight (10)
		✔ Secondary tot2 tare (10)
		✔ Secondary tot2 gross weight (10)
		✔ N° pieces in PLU tot (10)
		✔ N° boxes in PLU tot (10)
		✔ N° pallets in PLU tot (10)
		✔ Primary PLU net weight (10)
		✔ Primary PLU tare (10)
		✔ Primary PLU gross weight (10)
		✔ Secondary PLU net weight (10)
		✔ Secondary PLU tare (10)
		✔ Secondary PLU gross weight (10)
		✔ Bayerland 13 char- txt 18
		✔ Bayerland 13 char- txt 19
		✔ Bayerland 15 char- txt 20
		✔ Machine counter activated (10)
		✔ Piece ptr.lab.n.count. (10)
		✔ Tot1 ptr.lab.n.count. (10)

		✔ Tot2 ptr.lab.n.count. (10) ✔ Overall pieces n.count. (10) ✔ Overall tot1.n.count. (10) ✔ Overall tot2.n.count. (10) ✔ Over.tot1 tot2 n.count. (10) ✔ Total amount 1 currency 1 (10) ✔ Total amount 1 currency 2 (10) ✔ Barcode production date (16) ✔ Barcode expiry date (16) ✔ Barcode curing date (16)
START POS.	Numeric data item, from 1 to the max length given alongside the field (x = max field length)	Indicates the starting position from whence the data are taken from the selected variable field and that will then be included in the barcode.
HOW MANY CHARACTERS	Numeric data item, from 1 to the number of characters needed to complete the max field length (x = max field length)	Indicates the quantity of characters selected, that will then be included in the barcode.
NUMBERS ONLY	Can be selected from: Yes or No.	**Yes =** the values are numeric only; **No =** the fields are alphanumerical.
TYPE OF FILLING	Can be selected	The following options will be available: ✔ Zero on left ✔ Zero on right ✔ Blank on left ✔ Blank on right

Filling

If the length pre-established in the barcode is longer than the length of the selected field, filling can take place in the following ways:

For fields of the numeric type:

✔ filling with 0 on the left;

✔ filling with 0 on the right;

for fields of the alphanumerical type:

✔ filling with spaces on the left;

✔ filling with spaces on the right;

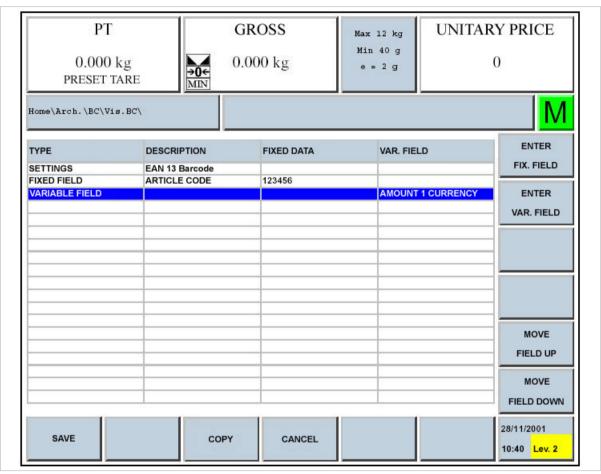Press [F1] (**SAVE**) to save the information in the barcode field. The following mask will appear:

Figure 5.29 - Barcode field editing and entry page *(citi5038-en.jpg)*

There are another two function keys on the right-hand side of the screen. These are

[F11]   **MOVE FIELD UP**

[F12]   **MOVE FIELD DOWN**

These two function keys can be used to change the positions of the fields that form the barcode, thus allowing a new structure to be created. Considering the barcode newly created with these function keys, the

fixed field can be inverted with the variable field without having to erase and rewrite the barcode structure.

Select the "variable field" data item with the up and down arrows, then

press ▊F11▊ (**MOVE FIELD UP**) and the following type of barcode structure will appear:
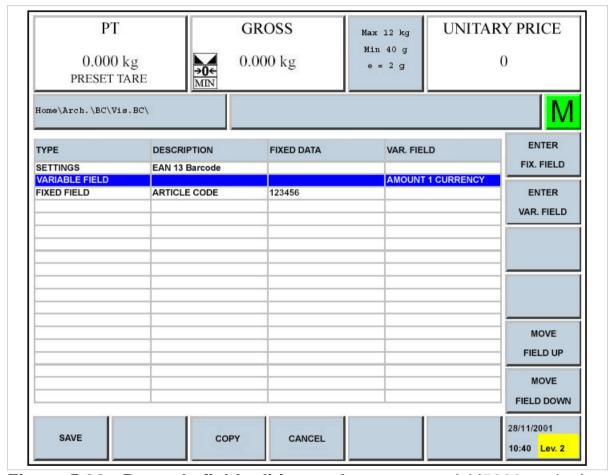

Figure 5.30 - Barcode field editing and entry page *(citi5039-en.jpg)*

5.7.3 How to copy a barcode

✔ Go to level 2.
✔ Follow the pathway `Home\Archives\Barcode`.

This accesses the barcode formats archive where you can create, copy, print and edit the barcode formats memorized in the machine. The following mask will appear:
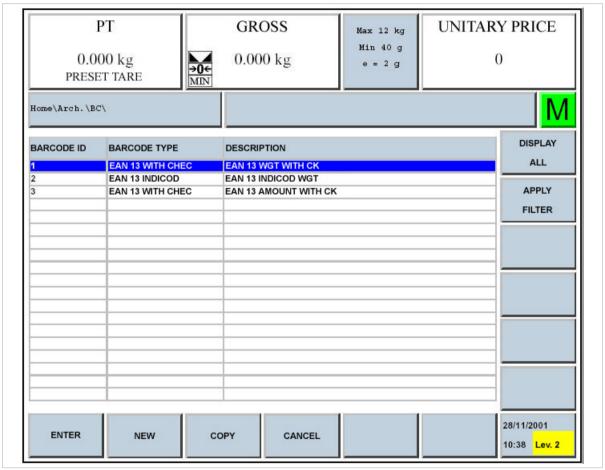

Figure 5.31 - Barcode archive editing and entry page
(citi5029-en.jpg)

After having selected the barcode format to be copied, press `F3` (**COPY**) key to access a mask where you will be requested to enter the destination number (numeric data item from 0 to 30000) of the new barcode format. Confirm this data item to return to the mask with the barcode archive (*Figure 5.31 on page 1-129*) which will now include the newly copied barcode.

A window with the message "Barcode already present" will appear if the number of a barcode already in the archive is entered.

5.7.4 Barcode cancellation

✔ Go to level 2.
✔ Follow the pathway `Home\Archives\Barcode`.

This accesses the barcode formats archive where you can create, copy, print and edit the barcode formats memorized in the machine. The following mask will appear:
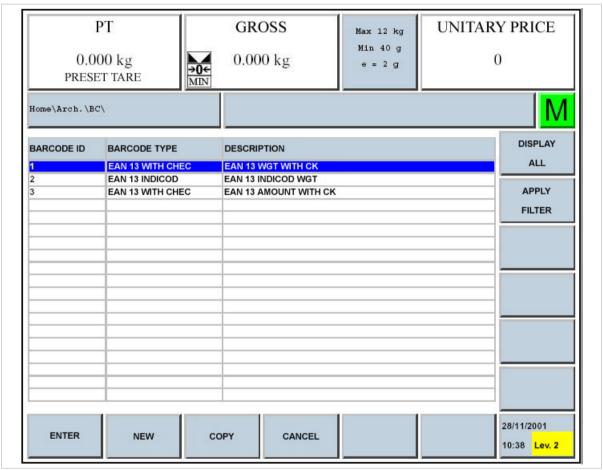

Figure 5.32 - Barcode archive editing and entry page
(citi5029-en.jpg)

To use the **F4** (**CANCEL**) key, first explore the list of entered barcode

formats with the arrows, highlight the required one and then press **F4** (**CANCEL**).
This will access a mask asking you to confirm the selected barcode

format before it is erased. Do this and press **ENTER** to erase the

barcode format from the machine's database. Use the **ESC** key to annul the cancellation process and allow the selected barcode format to remain memorized.

5.7.5 Barcodes

The following is a list and a brief description of the most widely used barcodes, all of which can be printed by the labelling machines with which Cigiemme machines are fitted.

1. EAN 13 / EAN 8
2. UPC A / UPC E
3. CODE 39 / CODE 32 Pharmaceutical Ita
4. Interleaved 2 of 5 / ITF 14
5. CODE 128 / EAN 128
6. Monarch Codabar

1. **EAN 13 / EAN 8**

Description

The EAN code (European Article Numbering), is used for coding large-scale distribution products in Europe and in other non-European countries.

The EAN 13/8 code is compatible with the UPC A/E code (used in the U.S.A. and Canada) from which it comes, and uses numeric characters only.

EAN 8 is a smaller code used for products whose size is unable to take an EAN 13 code.

The EAN 13/8 code can be given a 2 or 5-character ADD-ON, something that is often used in the publishing industry.

Format

EAN 13 fixed weight

National EAN prefix	Trademark proprietor's code	Product code	CD
N_1 N_2	N_3 N_4 N_5 N_6 N_7 N_8 N_9	N_{10} N_{11} N_{12}	N_{13}

EAN 8 fixed weight

National EAN prefix	Trademark proprietor's code		CD
N_1 N_2	N_3 N_4 N_5 N_6 N_7		N_8

EAN 13 variable weight

EAN prefix	Product code	Price	CD
N_1	N_2 N_3 N_4 N_5 N_6 N_7	N_8 N_9 N_{10} N_{11} N_{12}	N_{13}

Notes

National EAN prefix	This is a prefix ascribed by EAN International to the national coding organizations (e.g. Indicod in Italy, Gencode in France). Values 80 to 83 have been allocated to Italy.
Trademark proprietor's code	This code is assigned by Indicod to its associates and identifies the owner of the trademark on an international scale also, without the risk of misunderstandings.
Product code	Code assigned by manufacturers (trademark owners) to their products so as to identify them in an unmistakable way.
CD	Check digit, control character.
EAN prefix	The prefix for variable weight products in Italy is 2.
Price	Field with the final amount.
Number of characters on symbol	12, 12 + 2, 12 + 5 / 7, 7+ 2, 7 + 5
Check Digit	1 character added automatically.
Character set	0 ÷ 9
Advantages	A large amount of information.
Disadvantages	Fixed number of figures. The digits are significant.

Reproduction

2   12345671 2315

2. **UPC A / UPC E**

Description

The UPC code (Universal Product Code) is the equivalent of EAN for the large-scale distribution industry in the United States and Canada. here again, there are two types:

✔ UPC - A with twelve numeric characters;

✔ UPC - E which only encodes six numbers.

Format

UPC - A

Prefix	Trademark proprietor's code	Product code	CD
N_1	N_2 N_3 N_4 N_5 N_6 N_7 N_8	N_9 N_{10} N_{11}	N_{12}

UPC - E

Prefix	Trademark proprietor's code		CD
N_1	N_2 N_3 N_4 N_5 N_6		N_7

Notes

Prefix	Assigned by UCC (Uniform Code Council) and takes on different meanings.
Trademark proprietor's code	As EAN 13.
Product code	As EAN 13.
CD	As EAN 13.
Number of characters on symbol	11, 11 + 2, 11 + 5 / 6, 6+ 2, 6 + 5
Check Digit	1 character added automatically.
Character set	0 ÷ 9
Advantages	A large amount of information.
Disadvantages	Fixed number of digits. The spaces are significant.

Reproduction

123456789012

3. **CODE 39 / CODE 32 Pharmaceutical Ita**

Description

Code 39 is used for automating processes in the industrial field.

Code 32 Pharmaceutical Ita has been developed according to the specifications of the Italian Ministry of Health, based on code 39.

Format

Code 39

$N_1 \ldots N_{32}$

Code 32 Pharmaceutical Ita

A	$N_1\ N_2\ N_3\ N_4\ N_5\ N_6\ N_7\ N_8\ N_9$

Notes

Up to 32 alphanumerical characters can be encoded in code 39.

In code 32 Pharmaceutical Ita where there is a fixed initial "A" followed by nine characters, the first of which is always 0 and the last a control character.

Number of characters on symbol	1 - 32 / 10
Check Digit	Optional / Specific
Character set	0 ÷ 9, A ÷ Z, - + % $ <space> / 0 to 9 and the characters of the English alphabet with the exclusion of A E I O
Wide/Narrow ratio	2:1, 3:1
Advantages	Representation of alphabetical, numeric and special characters.
Disadvantages	The spaces are significant.

Reproduction

ABC 123+/-%$

4. **Interleaved 2 of 5 / ITF 14**

Description

The interleaved 2 or 5 barcode (ITF) is used in industry with a range of use similar to code 39.

However, compared to this latter, it can only encode numerical data.

The term interleaved stems from the fact that the characters in this barcode are encoded both in the bars and spaces.

A particular case of the interleaved 2 of 5 version is ITF 14, which is used as the European standard for encoding multiple packages of products encoded individually.

In practice, this is an interleaved 2 or 5 fourteen digits long, in which the most significant digit is always a 0 and where the remaining thirteen correspond to the numbers in the EAN 13 of the individual products.

It is always advisable to use a final check digit with this barcode.

Format

Interleaved 2 of 5

$N_2 \ldots N_{32}$

ITF 14

$N_1 \ldots N_{13}$	CD

Notes

Number of characters on symbol	2 - 32 / 13
Check Digit	Optional / A number is added automatically
Character set	0 ÷ 9
Wide/Narrow ratio	3:1
Advantages	A large amount of information.
Disadvantages	The spaces are significant and the digits must always be even in number.

Reproduction

0123456789012343

5. **CODE 128 / EAN 128**

Description

Code 128 is an alphanumerical, two-way barcode whose name stems from the ability to enside the 128 characters of the ASCII table.

An important application of code 128 is EAN/UCC 128, created through collaboration amongst EAN, UCC and AIM (Automatic Identification Manufacturers).

The difference between a code 128 and an EAN 128 lies in the use, by this latter, of functional character FCN1 after the start character.

Through use of data identifiers, the EAN/UCC system allows supplementary information to be added to packaging units and logistic units.

The data identifiers are prefixes that distinguish the meaning and format of the following fields.

Format

Characters Start A, B, C	FCN1	Set of elements		CD	Stop
		Data Identifier	Information field (s)		

Notes

Number of characters on symbol   1 to 48 (included in the "series of elements" field) and up to 165 mm in length

Check Digit   Optional

Character set   ASCII

Reproduction

(01)95012345678903(3102)000400

6. Monarch Codabar

Description

The Codabar Code was developed by Monarch Marking Systems in 1972. This is why it is also called "Monarch Code" and sometimes even "Code NW7".

Owing to its features of the very highest security against the risk of reading errors, this code is typically used in the medical-health sector to identify and associate test tubes, analyses results and blood bags to patients.

Format and Notes

Number of characters on symbol	Up to 32, including start, stop and CD
Check Digit	Optional
Character set	0 to 9 and six special characters (-, $, :, /, ., +)

Reproduction

12345-$:/+

5.8 How to program PLUs

5.8.1 PLU archive

The PLU archive contains all the information about the articles that must be labelled.

Complete programming of the PLU archive can be carried out at level 1.

In particular, new PLUs can be created from copies in which existing Labels and Barcodes can be used (the access level will be indicated alongside each description in the following text).
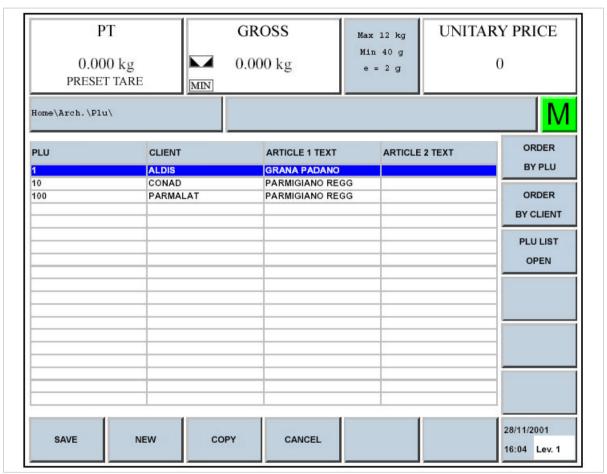

Figure 5.33 - PLU archive editing and entry page *(citi5040-en.jpg)*

The following symbols can be printed:

Description	Local	CECIP (*)	ISO 4217
EURO	EU		
Italian Lira	Lit	L.	ITL
Swiss franc		Fr	CHF
Belgian franc		F	BEF
Austrian schilling		S	ATS
Danish krone		Kr	DKK
Finnish markk		Mk	FIM
French franc	FF	F	FRF
German mark		DM	DEM
Greek dracma		Drc	GRD
Icelandic krone		Kr	ISK
Irish pound sterling		£	IEP
Luxemburgian franc		F	LUF
Dutch florin		Fl	NLG
Norwegian krone		Kr	NOK
Portuguese escudo		Esc	PTE
Spanish peseta		PTA	ESP
Swedish krone		KR	SEK
British pound sterling		£	GBP
Hungarian florin		Ft	HUF
American dollar		$	USD

(*) CECIP - European Committee for Constructor of Weighing Instruments.

The list of fields that can be entered is described on the next page along with an explanation.

FIELD	TYPE AND LENGTH	DESCRIPTION
PLU	Alphanumerical data item from 0 to 15 characters **LEVEL 1**	Cannot be modified as it is the number of the PLU memorized in the archive. It can be printed both in light letters and in barcodes.
CODES		
CLIENT	Alphanumerical data item from 0 to 10 characters **LEVEL 1**	Identifies the name of the client.
PRODUCT CODE	Alphanumerical data item from 0 to 15 characters **LEVEL 1**	Alphanumerical code that identifies the product. Can either be associated with the warehouse product code or with a code personalized for the client and can be printed both in light letters and in barcodes.
BATCH	Alphanumerical data item from 0 to 15 characters **LEVEL 1**	Number that identifies a batch of products. It is represented on the screen when the PLU is selected and can be printed both in light letters and in barcodes.
LOT	Alphanumerical data item from 0 to 15 characters **LEVEL 1**	Number that identifies a lot of products. It is represented on the screen when the PLU is selected and can be printed both in light letters and in barcodes.
PRODUCT	Alphanumerical data item from 0 to 15 characters **LEVEL 1**	Alphanumerical code that identifies the product category. It can be printed both in light letters and in barcodes.
INDICOD		
PRODUCT INDICOD	Numeric data item from 0 to 13 characters **LEVEL 1**	Field of the numeric type that identifies the Indicod code to add to the EAN13 barcode or to other barcodes, with 13 characters. It is used in the labels of the individually weighed piece.
TOT.1 INDICOD	Numeric data item	Field of the numeric type that

	from 0 to 13 characters **LEVEL 1**	identifies the Indicod code to add to the EAN13 barcode or to other barcodes, with 13 characters. It is used in labels for total 1, which is the total of the package.
TOT. INDICOD 2	Numeric data item from 0 to 13 characters **LEVEL 1**	Field of the numeric type that identifies the Indicod code to add to the EAN13 barcode or to other barcodes, with 13 characters. It is used in labels for total 2, which is the total of the pallet.
WEIGHTS		
WGT MEASUREMENT UNIT	Can be selected **LEVEL 1**	Allows the weight unit used to be selected for each PLU: kilograms (kg) or pounds (lb).
PRODUCT TARE	Numeric data item from 0 to 99.999 characters, expressed in kg **LEVEL 1**	Identifier of the preset tare value of the package. For example, it is associated with the weight of the packet, polystyrene tray and relative polyethylene, etc. It is displayed as soon as the PLU is selected and is used for calculating the net weight. It is added to each weight made so as to obtain the final calculation of the overall tare for each total level (see "totalizing" section). It can be printed both in light letters and in barcodes.
PRODUCT % TARE	Numeric data item from 0 to 99.99 **LEVEL 1**	Identifier of the percentage weight drop due to the loss of liquids (e.g. when certain products drip, when products thaw or are cured). It is added to the product tare and is then printed and totalized along with this latter.
PRINT PROD. TARE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the tare value of each individual package is to be printed on the label or not.
PACKING TARE (TOT. 1)	Numeric data item from 0 to 99.999 characters,	Idewntifier of the preset tare value of the package. For example, it is associated with theweight of the

	expressed in kg **LEVEL 1**	box or crate, etc. It is used to calculate the net weight of the package along with the total of the individual tares of each product it contains. It can be printed both in light letters and in barcodes.
PRINT TARE TOT. 1	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the tare value of each individual package is to be printed on the label or not.
PALLET TARE (TOT. 2)	Numeric data item from 0 to 99.999 characters, expressed in kg **LEVEL 1**	Identifier of the preset tare value of the pallet. It is used to calculate the net weight of the pallet along with the total of the tares of each package it contains. It can be printed both in light letters and in barcodes.
PRINT TARE TOT. 2	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the tare value of each individual pallet is to be printed on the label or not.
PRINT GROSS	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the gross weight of each individual package is to be printed on the label or not.
PRINT WEIGHT SYMBOL	Can be selected from: ✔ WITHOUT SYMBOL ✔ SYMBOL WITHOUT SPACE ✔ SYMBOL WITH SPACE **LEVEL 1**	Identifies the mode in which the weight symbol is printed alongside the real weight value.
FIXED WEIGHT	Numeric data item from 0 to 99.999 characters, expressed in kg **LEVEL 1**	Identifier of the fixed weight value to print if the products are to be labelled with preset weights. It can be printed both in light letters and in barcodes.
FIXED AMOUNT	Numeric data item from 0 to 999999.999	Identifier of the fixed amount value to print if the products are to be labelled with preset amounts. It can

	LEVEL 1	be printed both in light letters and in barcodes.
RANGE		
LOW. WGT LIMIT	Numeric data item from 0 to 99.999 characters, expressed in kg **LEVEL 1**	Identifier of the minimum weight value of the labelling RANGE.
UPP. WGT LIMIT	Numeric data item from 0 to 99.999 characters, expressed in kg **LEVEL 1**	Identifier of the maximum weight value of the labelling RANGE.
RANGE TYPE	Within or outside **LEVEL 1**	Allows only those products that are WITHIN the preset range or only those that are OUTSIDE the range to be printed.
CURRENCIES		
PRIMARY CURRENCY	List of currencies in relation to the various geographical areas **LEVEL 1**	Establishes the currency to use when the primary currency is printed. It is represented in geographical areas, which are: ✔ EUROLAND ✔ WESTERN EUROPE ✔ EASTERN EUROPE ✔ AMERICA ✔ AFRICA ✔ ASIA ✔ OCEANIA
		Selection of one of these areas will access a mask containing all the countries in the selected area, allowing the required country to be chosen.
NUM. DECIMALS 1	Can be selected from 0 to 3 **LEVEL 1**	Gives the number of decimals to consider in the primary currency.
ROUNDING-OFF 1	Can be selected amongst 1, 5 and	Gives the degree of approximation of the value of the amount.

	10 **LEVEL 1**	
PRIMARY CURRENCY SYMBOL	Alphanumerical data item from 0 to 3 characters **LEVEL 1**	Identifies the symbol of the primary currency, depending on the country selected.
PRICE	Numeric data item from 0 to 999999.999 **LEVEL 1**	Identifier of the value of the unitary price in relation to the currency used. It is represented on the screen when the PLU is selected and can be printed both in light letters and in barcodes.
PRINT PRIMARY PRICE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the primary currency price is to be printed on each individual package or not.
PRINT PRIMARY AMOUNT	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the primary currency amount is to be printed on each individual package or not.
SECONDARY CURRENCY	List of currencies in relation to the various geographical areas **LEVEL 1**	Establishes the currency to use when the secondary currency is printed. It is represented in geographical areas, which are: ✔ EUROLAND ✔ WESTERN EUROPE ✔ EASTERN EUROPE ✔ AMERICA ✔ AFRICA ✔ ASIA ✔ OCEANIA Selection of one of these areas will access a mask containing all the countries in the selected area, allowing the required country to be chosen.
NUM. DECIMALS 2	Can be selected from 0 to 3 **LEVEL 1**	Gives the number of decimals to consider in the secondary currency.
ROUNDING-OFF 2	Can be selected amongst 1, 5 and	Gives the degree of approximation of the value of the amount.

	10 **LEVEL 1**	
SEC. CURRENCY SYMBOL	Alphanumerical data item from 0 to 3 characters **LEVEL 1**	Identifies the symbol of the secondary currency, depending on the country selected.
PRIM. -SEC. CURRENCY CONV.	Numeric data item from 0 to 9999.999999 **LEVEL 1**	Establishes the conversion value, which is automatic for all countries in which the EURO is used. The adequate conversion value must be entered for all the other countries.
PRINT SEC. PRICE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the secondary currency price is to be printed on each individual package or not.
PRINT SEC. AMOUNT	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the secondary currency amount is to be printed on each individual package or not.
PRINT CURRENCY SYMBOL	Can be selected from: ✔ WITHOUT SYMBOL ✔ SYMBOL WITHOUT SPACE ✔ SYMBOL WITH SPACE **LEVEL 1**	Identifies the mode in which the currency symbol is printed alongside the price and amount.
DATES		
PROD. DATE TEXT	Archive **LEVEL 1**	Gives the description associated with the production date, to be printed on the label. Allows one of the texts in the texts archive to be selected.
PROD. DATE FORMAT	List of the ways in which the production date can be printed. **LEVEL 1**	Identifies the date printing mode and can be selected from the list in *par. 5.8.13 on page 1-165*. **List of date formats:** ✔ DD MM YY ✔ DD MM YYYY

		✔ DD.MM.YY
		✔ DD.MM.YYYY
		✔ DD/MM/YY
		✔ DD/MM/YYYY
		✔ DD ROM YY
		✔ DD ROM YYYY
		✔ DD MON YY
		✔ DD MON YYYY
		✔ MM DD YY
		✔ MM DD YYYY
		✔ MM.DD.YY
		✔ MM.DD.YYYY
		✔ MM/DD/YY
		✔ MM/DD/YYYY
		✔ DDMMYY
		✔ DDMMYYYY
		✔ PROG. DD OF YEAR
		✔ ROM YY
		✔ ROM YYYY
		✔ MMDDYY
		✔ MMDDYYYY
		✔ YYMMDD
		✔ YYYYMMDD
		✔ WEEK OF YEAR
BARCODE PROD. DATE FORMAT	List of the ways in which the production date can be printed. **LEVEL 1**	See list of date formats.
PRINT PROD. DATE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the production date is to be printed on the label or not.
USE BY DD.	Numeric data item from 0 to 999 **LEVEL 1**	Identifier of the number of the product's "use by" days. It is added to the production date so as to calculate the expiry date.
EXPIRY DATE TEXT	Archive **LEVEL 1**	Gives the description associated with the expiry date, to be printed on the label. Allows one of the texts

		in the texts archive to be selected.
EXPIRY DATE FORMAT	List of the ways in which the expiry date can be printed. **LEVEL 1**	See list of date formats.
BARCODE EXPIRY DATE FORMAT	List of the ways in which the expiry date can be printed. **LEVEL 1**	See list of date formats.
PRINT EXPIRY DATE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the expiry date is to be printed on the label or not.
CURING DD.	Numeric data item from 0 to 999 **LEVEL 1**	Identifier of the number of the product's curing days. It is added to the production date so as to calculate the curing date.
CURING DATE TEXT	Archive **LEVEL 1**	Gives the description associated with the curing date, to be printed on the label. Allows one of the texts in the texts archive to be selected.
CURING DATE FORMAT	List of the ways in which the curing date can be printed. **LEVEL 1**	See list of date formats.
BARCODE CURING DATE FORMAT	List of the ways in which the curing date can be printed. **LEVEL 1**	See list of date formats.
PRINT CURING DATE	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the curing date is to be printed on the label or not.
PRINT TIME	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the time is to be printed on the label or not.
PRESELECTIONS		
TOT. 1 PCS PRESELECT.	Numeric data item from 0 to 999999999 **LEVEL 1**	Indicates the number of packages to reach after which the box or crate total label can be issued in the automatic or manual mode.

TOT1 WGT PRESELECT.	Numeric data item from 0 to 99999.999 characters, expressed in kg (or lb) **LEVEL 1**	Indicates the weight value to reach after which the box or crate total label can be issued in the automatic or manual mode.
TOT. 2 PCS PRESELECT.	Numeric data item from 0 to 999999999 **LEVEL 1**	Indicates the number of boxes or crates to reach after which the pallet total label can be issued in the automatic or manual mode.
TOT. 2 WGT PRESELECT.	Numeric data item from 0 to 99999.999 characters, expressed in kg (or lb) **LEVEL 1**	Indicates the number of boxes or crates to reach after which, once this weight has been reached, the pallet total label can be issued in the automatic or manual mode.
PIECES WEIGHED	Numeric data item from 0 to 999 **LEVEL 1**	Indicates the number of pieces to consider in a box after each weighing operation.
PCS PROCESS. LIMIT	Numeric data item from 0 to 10^9 **LEVEL 1**	Indicates the number of pieces to reach in order to conclude the process. A request to quit the process or proceed will appear once this limit has been reached.
WGT PROCESS. LIMIT	Numeric data item from 0 to 10^9 **LEVEL 1**	Indicates the weight to reach in order to conclude the process. A request to quit the process or proceed will appear once this limit has been reached.
ARTICLE TEXTS		
ARTICLE TEXT 1 - 20	Text archive **LEVEL 1**	Alphanumerical code identifying a generic text to be printed. It can be used for printing the name of the product, the ingredients or any other text on the label. The first two lines of the description will appear on the screen when the PLU is selected.
LABELS		

PRODUCT LABEL	Label archive **LEVEL 1**	Allows one of the label formats in the labels archive to be selected and assigned to the pricing of the individual packages.
TOT.1 LABEL	Label archive **LEVEL 1**	Allows one of the label formats in the labels archive to be selected and assigned to the pricing of the box or crate total.
TOT.2 LABEL	Label archive **LEVEL 1**	Allows one of the label formats in the labels archive to be selected and assigned to the pricing of the pallet total.
CONSECUTIVES		
PRINT PIECE PROG.	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the consecutive package number is to be printed on the label of the individual products or not.
PRINT TOT. 1 PROG.	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the consecutive number of the box or crate is to be printed on the total 1 label.
PRINT TOT. 2 PROG.	Can be selected from: Yes or No. **LEVEL 1**	Establishes whether the consecutive number of the pallet is to be printed on the total 2 label.

5.8.2 How to enter a PLU

✔ Go to level 1.
✔ Follow the pathway *Home\Archives\Plu*.

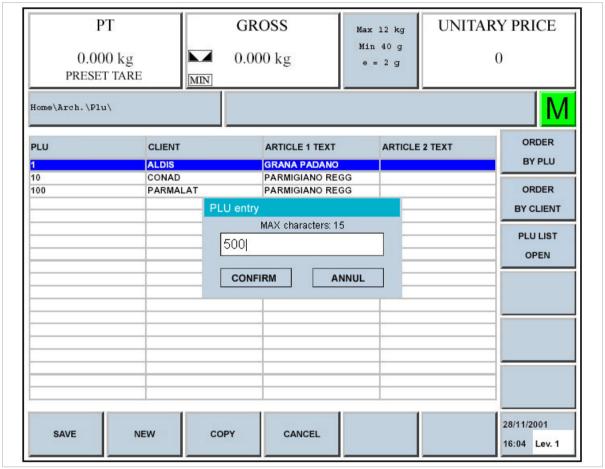Press [F2] (**NEW**) to access a mask asking for the PLU number to be entered:

Figure 5.34 - New PLU entry page *(citi5041-en.jpg)*

Press [ENTER] and the new PLU will be added to the archive.

With the line of the new PLU highlighted, press **ENTER** to access the data entry window:

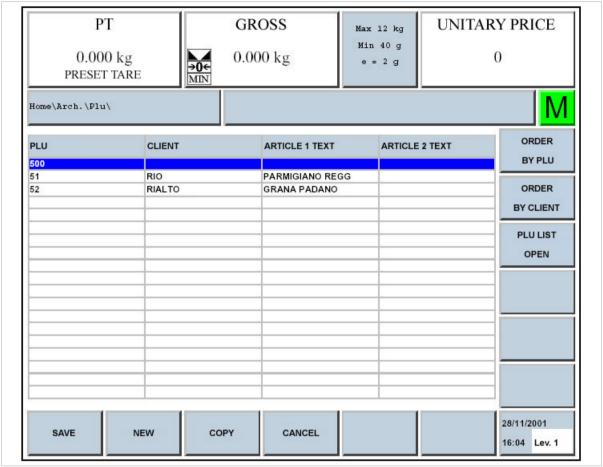**Figure 5.35 - New PLU data entry page** *(citi5042-en.jpg)*

5.8.3 How to copy a PLU

✔ Go to level 1.
✔ Follow the pathway `Home\Archives\Plu`.

This accesses the PLU archive where you can create, copy, print and edit the PLUs memorized in the machine. The following mask will appear:
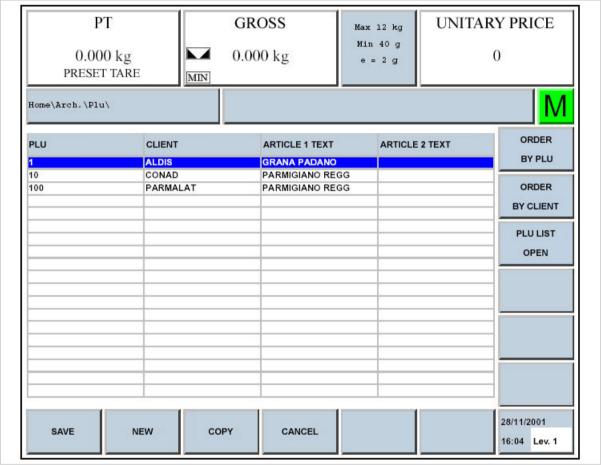

Figure 5.36 - PLU archive editing and entry page *(citi5040-en.jpg)*

After you have selected an already existing PLU, press F3 (**COPY**) to access a mask where you will be requested to enter the destination number (numeric data item of up to 15 characters) of the new PLU. Confirm this data item to return to the mask with the PLU archive (*Figure 5.36 on page 1-157*) which will now include the newly copied PLU.

A window with the message "PLU already present" will appear if the number of a PLU already in the archive is entered.

5.8.4 How to cancel a PLU

✔ Go to level 1.
✔ Follow the pathway `Home\Archives\Plu`.

This accesses the PLU archive where you can create, copy, print and edit the PLUs memorized in the machine. The following mask will appear:
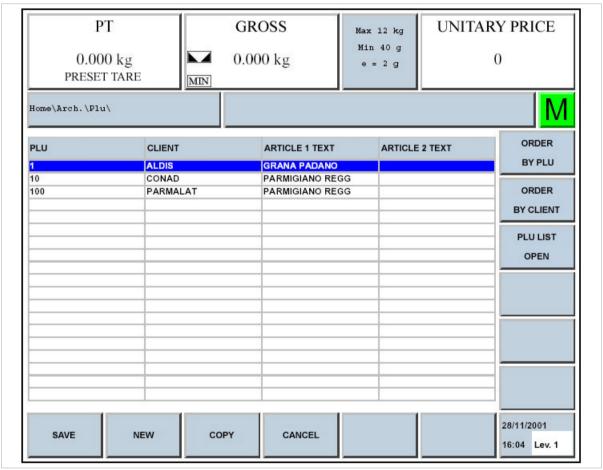

Figure 5.37 - PLU archive editing and entry page *(citi5040-en.jpg)*

Select the PLU you wish to cancel with the up and down arrows, then

press **F4** (**CANCEL**) to access a mask where you will be asked to

confirm before the PLU is cancelled. Confirm with **ENTER** to cancel the PLU from the archive and return to the PLU archive mask (*Figure*

5.37 on page 1-158).

5.8.5 How to set-up the process with a variable weight

In this operating mode, the machine detects the gross weight of the package and prints it on the product label, subtracting the tare if set-up in this way. The detected gross weight, net weight and tare are added to the totals. The label must at least give the NET WEIGHT.

5.8.6 How to set-up the fixed weight and/or amount process

In this operating mode, the machine detects the gross weight of the product, possibly compares it with the selected weight limits, but prints the label and totalizes the fixed weight and/or amount set in the PLU. A

 (non-metric operation) will appear on the screen.

5.8.7 How to set-up the process as a labelling machine (weighing excluded)

In this operating mode, the machine merely operates as a "dispenser" of

labels on each package that transits through. The label is free. A (non-metric operation) will appear on the screen.

5.8.8 Weight range set-up

The weighed packages can be checked by setting the two weight ranges envisaged in the PLU. All the weight packages within the two selected limits will be labelled if the WITHIN RANGE parameter is selected. The packages outside the range will be:

✔ rejected, if the ejector is installed (OPTIONAL);

✔ not labelled;

✔ stopped on the line.

All the weight packages that are **not** within the two selected limits (lower and upper) will be labelled if the OUTSIDE RANGE parameter is selected.

The packages within the range will be:

✔ rejected, if the ejector is installed (OPTIONAL);
✔ not labelled;
✔ stopped on the line.

5.8.9 Piece pre-selection for total 1 (box/crate)

FIELD	TYPE AND LENGTH	DESCRIPTION
TOT. 1 PCS PRESELECT.	Numeric data item from 0 to 999999999 **LEVEL 1**	Indicates the number of packages to reach after which, once this number has been reached, the box or crate total label can be issued in the automatic or manual mode.

Level of competence: LEV 1

This function can be accessed in three different ways:

1. From the **PLU** archive.

   Accessing procedure:

   ✔ go to level 1;

   ✔ follow the pathway *Home\Archives\Plu*.

   The number of pieces can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

2.
   Access the processing mask, press [F2] (**DATA MODIFICATION**)

   and select **TOT. 1 PCS PRESELECT..** Press [ENTER] for access in order to enter or edit this value. After having entered the new number

   of pieces, confirm the value with [ENTER] and it will be entered in

   the **PLU**. Press key [F12] (**SAVE CHANGES**) to make the entry or modification definitive. failing this, the entry or change will be temporary and only of effect in the current process.

3. If the **TOT. 1 PCS PRESELECT.** function has been entered in a **MACRO** function (see menu in *par. 5.3.2 on page 1-60*).

5.8.10 Weight pre-selection for total 1 (box/crate)

FIELD	TYPE AND LENGTH	DESCRIPTION
TOT1 WGT PRESELECT.	Numeric data item from 0 to 99999.999 characters, expressed in kg (or lb) **LEVEL 1**	Indicates the weight value to reach after which, once this value has been reached, the box or crate total label can be issued in the automatic or manual mode.

Level of competence: LEV 1

This function can be accessed in three different ways:

1. From the **PLU** archive.

   Accessing procedure:

   ✔ go to level 1;

   ✔ follow the pathway *Home\Archives\Plu*.

   The weight value can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

2.
   Access the processing mask, press [F2] (**DATA MODIFICATION**)

   and select **TOT1 WGT PRESELECT.**. Press [ENTER] for access in order to enter or edit this value. After having entered the new weight

   value, confirm it with [ENTER] and it will be entered in the **PLU**.

   Press key [F12] (**SAVE CHANGES**) to make the entry or modification definitive. failing this, the entry or change will be temporary and only of effect in the current process.

3. If the **TOT1 WGT PRESELECT.** function has been entered in a **MACRO** function (see menu in *par. 5.3.2 on page 1-60*).

5.8.11 Piece pre-selection for total 2 (pallet)

FIELD	TYPE AND LENGTH	DESCRIPTION
TOT. 2 PCS PRESELECT.	Numeric data item from 0 to 999999999 **LEVEL 1**	Indicates the number of boxes or crates to reach after which the pallet total label can be issued in the automatic or manual mode.

Level of competence: LEV 1

This function can be accessed in three different ways:

1. From the **PLU** archive.

   Accessing procedure:

   ✔ go to level 1;
   ✔ follow the pathway *Home\Archives\Plu*.

   The number of pieces can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

2. Access the processing mask, press **F2** (**DATA MODIFICATION**)

   and select **TOT. 2 PCS PRESELECT..** Press **ENTER** for access in order to enter or edit this value. After having entered the new number

   of pieces, confirm the value with **ENTER** and it will be entered in

   the **PLU**. Press key **F12** (**SAVE CHANGES**) to make the entry or modification definitive. failing this, the entry or change will be temporary and only of effect in the current process.

3. If the **TOT. 2 PCS PRESELECT.** function has been entered in a **MACRO** function (see menu in *par. 5.3.2 on page 1-60*).

5.8.12 Weight pre-selection for total 2 (pallet)

FIELD	TYPE AND LENGTH	DESCRIPTION
TOT. 2 WGT PRESELECT.	Numeric data item from 0 to 99999.999 characters, expressed in kg (or lb) **LEVEL 1**	Indicates the number of boxes or crates to reach after which, once this weight has been reached, the pallet total label can be issued in the automatic or manual mode.

Level of competence: LEV 1

This function can be accessed in three different ways:

1. From the **PLU** archive.

   Accessing procedure:

   ✔ go to level 1;
   ✔ follow the pathway *Home\Archives\Plu*.

   The weight value can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

2. Access the processing mask, press `F2` (**DATA MODIFICATION**) and select **TOT. 2 WGT PRESELECT.**. Press `ENTER` for access in order to enter or edit this value. After having entered the new weight value, confirm it with `ENTER` and it will be entered in the **PLU**. Press key `F12` (**SAVE CHANGES**) to make the entry or modification definitive. failing this, the entry or change will be temporary and only of effect in the current process.

3. If the **TOT. 2 WGT PRESELECT.** function has been entered in a **MACRO** function (see menu in *par. 5.3.2 on page 1-60*).

5.8.13 Selection of the date printing format

FIELD	TYPE AND LENGTH	DESCRIPTION
PROD. DATE FORMAT BARCODE PROD. DATE FORMAT EXPIRY DATE FORMAT BARCODE EXPIRY DATE FORMAT CURING DATE FORMAT BARCODE CURING DATE FORMAT	List of available date printing formats **LEVEL 1**	**List of date formats:** ✔ DD MM YY ✔ DD MM YYYY ✔ DD.MM.YY ✔ DD.MM.YYYY ✔ DD/MM/YY ✔ DD/MM/YYYY ✔ DD ROM YY ✔ DD ROM YYYY ✔ DD MON YY ✔ DD MON YYYY ✔ MM DD YY ✔ MM DD YYYY ✔ MM.DD.YY ✔ MM.DD.YYYY ✔ MM/DD/YY ✔ MM/DD/YYYY ✔ DDMMYY ✔ DDMMYYYY ✔ PROG. DD OF YEAR ✔ ROM YY ✔ ROM YYYY ✔ MMDDYY ✔ MMDDYYYY ✔ YYMMDD ✔ YYYYMMDD ✔ WEEK OF YEAR

Level of competence: LEV 1

This function can be accessed from the **PLU** archive.

Accessing procedure:

✔ go to level 1;

✔ follow the pathway *Home\Archives\Plu*.

A list of the PLUs in the machine will appear. After you have selected the

required PLU, press **ENTER** to access a mask containing all the items that concern the **PLU**. All these items can now be explored until the **DATE FORMAT XXXX** item has been highlighted (where **XXXX** means the **PRODUCTION DATE** / **EXPIRY DATE** / **CURING DATE** to either

give in full and/or on the barcode). Press **ENTER** to enter or change the "use by" days.

Press **F1** (**SAVE**) to memorize the newly entered value in the **PLU**. The date printing format can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

5.8.14 Storage days

FIELD	TYPE AND LENGTH	DESCRIPTION
USE BY DD.	Numeric data item from 0 to 999 **LEVEL 1**	Identifier of the number of the product's "use by" days. It is added to the production date so as to calculate the expiry date.

Level of competence: LEV 1

This function can be accessed in three different ways:

1. From the **PLU** archive.

    Accessing procedure:

    ✔ go to level 1;
    ✔ follow the pathway *Home\Archives\Plu*.

    A list of the PLUs in the machine will appear. After you have selected

    the required PLU, press **ENTER** to access a mask containing all the items that concern the **PLU**. Use the up and down arrows to scroll through all the items until the **EXPIRY DATE** item is highlighted. Now

    press **ENTER** to enter or change the "use by" days. Press **F1** (**SAVE**) to memorize the newly entered value in the **PLU**.

    Only in this way will you be able to enter a number that will calculate the expiry date in relation to the production date.

    The "use by" days can only be entered or modified if processing of the **PLU** has not yet begun. If it is being processed, the operator must first make a request to reset the totals of that **PLU**.

2.

Access the processing mask, press **F2** (**DATA MODIFICATION**)

and select **EXPIRY DATE**. Press **ENTER** to access the expiry date which appears on the screen as it is printed on the label (for example: 11/07/01). In this case, the date print could bve substituted with a

word (for example: July 2001). Use key **ENTER** to confirm in the **PLU** the information given in the expiry date. **In this case, the modification will be temporary, never definitive.** If you attempt to

save these changes with the **F12** (**SAVE CHANGES**) key, a message indicating that "The date changes will not be saved" will appear on the screen. Only after you have closed the totals of that PLU will the expiry date print become the one previously memorized in the **PLU**.

3. If the **EXPIRY DATE** function has been entered in a **MACRO**, you can activate the macro function to access the entry or editing function of a date or word that will never be definitively entered in the PLU. Only after you have closed the totals of that PLU will the expiry date print become the one previously memorized in the **PLU**.

5.9 Image programming

5.9.1 Images archive

The archive contains and memorizes all the images that need to be printed and is organized in the following way:

IMAGE

Gives the memorizing number of the image, from 0 to 30000.

FILE NAME

Allows the "bmp" file to be selected from a list (in the DOS 8+3 format).

MEMORIZED IN PTR Indicates whether the image in question is memorized in the printer's permanent memory. An image in the permanent memory is processed in a faster way during the printing phase than an image that must be loaded via the serial link each time the process is accessed.

ROTATION

Can be selected amongst 0, +90, +180, +270. Indicates the extent to which the image is turned in degrees in relation to the label exiting direction.

ZOOM

from 10% to 200%. Allows the image to be correctly sized on the label.

5.9.2 How to enter an image

✔ Go to level 2.
✔ Follow the pathway *Home\Archives\Images*.

This accesses the images archive where you can create, copy, cancel and memorize in the images PTR. The following mask will appear:
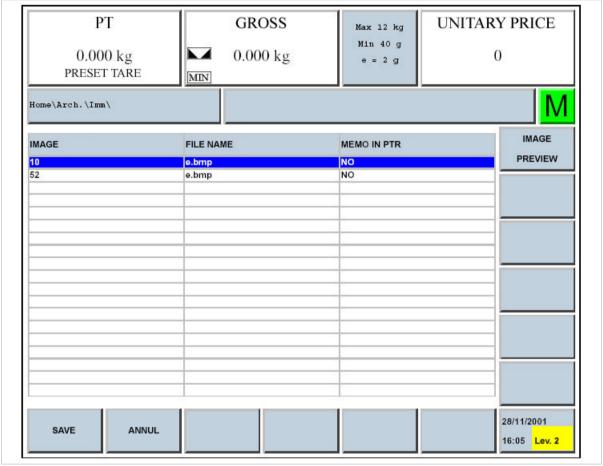
PT	GROSS	Max 12 kg / Min 40 g / e = 2 g	UNITARY PRICE
0.000 kg PRESET TARE	0.000 kg MIN		0

Home\Arch.\Imm\   M

IMAGE	FILE NAME	MEMO IN PTR	IMAGE PREVIEW
10	e.bmp	NO	
52	e.bmp	NO	

| SAVE | ANNUL | | | | | 28/11/2001 16:05 Lev. 2 |

Figure 5.38 - Image entry page *(citi5043-en.jpg)*

Press the **F2** (**NEW**) key to access a mask where you will be requested to enter a new image number. After the image number has

been entered (numeric data item from 0 to 30000), press **ENTER** and the new image will be added to the archive. Return toi the"Images Archive" mask where the newly entered image will be highlighted.

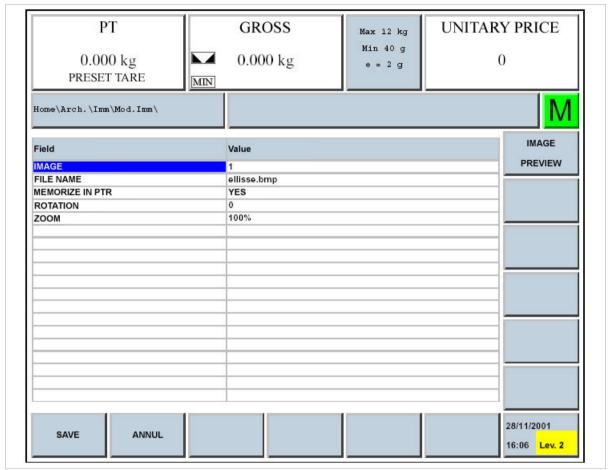Press **ENTER** and the following mask will appear:

Figure 5.39 - Image editing page *(citi5044-en.jpg)*

Use the up and down arrows to scroll through all the items until

highlighting the **FILE NAME** item and press **ENTER** to access a mask containing the list of images in the ".bmp" format.

Use the up and down arrows to select the image, then press **ENTER** and the item will be added to the images archive. The image will be

definitively memorized when the archive is quitted by pressing **F1** (**SAVE**).

The mask that now appears contains a list of all the images entered.

You can now proceed by entering a new image with key **F2** (**NEW**).

5.9.3 How to copy an image

To use the **F3** (**COPY**) key, first explore the list of entered images with

the arrows, highlight the required one and then press **F3** (**COPY**). This
will access a mask asking you to enter the new image number. Do this

and press **ENTER** to enter it in the database of the machine.

5.9.4 How to cancel an image

To use the **F4** (**CANCEL**) key, first explore the list of entered images

with the arrows, highlight the required one and then press **F4**
(**CANCEL**). This will access a mask asking you to confirm the selected

image before it is erased. Do this and press **ENTER** to erase the

image from the machine's database. Use the **ESC** key to annul the
cancellation process and allow the image to remain memorized.

5.9.5 Memorize in PTR

To be able to print a drawing on a label, it must have first been created in the images archive.

If an image is used in a label with a **NO** setting for its "**MEMORIZED IN PTR**" field, the CPU loads the image used in the PTR memory when the processing phase starts, taking the time required to transfer the data via serial link.

When the image has been loaded into the PTR memory, work can proceed normally without slowing down.

When the "**MEMORIZE IN PTR**" operation takes place, all the files of images with a **YES** setting for their **MEMORIZED IN PTR** field are transmitted to the printer memory in a single file.

IMPORTANT: If a client's faulty printer is changed, the "**MEMORIZE IN PTR**" operation must be carried out again for the images.

The program could block if a label containing an image is recalled when it refers to a file that is NOT in the BMP directory.

On access to *Home\Arch.\Im.*, checks will be made to make sure that the BMP directory contains each ".bmp" file corresponding to the images created by pressing **NEW**.

If this match FAILS to occur, dashes will appear in place of the name of the image on access to the images archive and the "**MEMORIZED IN PTR**" field will be **NO**.

Definitive memorizing will occur when the process is quitted by pressing **SAVE**.

6. USE OF THE TERMINAL - PROCESS

6.1 Data modification

See *par. 5.2.4 on page 1-43*.

6.2 Basic reversal

The reversal operation can be carried out during the process where necessary.

Press **Pcs reversal** and digitize a quantity in kg between the suggested limits. Confirm (**ENTER**). The belts will stop (if applicable - automatic versions) during this operation.

Press **Tot 1 reversal** and digitize a quantity in kg between the suggested limits. Confirm (**ENTER**) and digitize a quantity in pcs between the suggested limits. Confirm (**ENTER**). The belts will stop (if applicable - automatic versions) during this operation.

After the reversal operations have terminated, the totals will be updated on the screen and the belts will start again.

6.3 Evolved reversal

See advanced user manual.

6.4 Totals management

6.4.1 Advanced closing

Totalizing always occurs when labelling has terminated correctly and the summed values are the ones given on the print itself.

It is possible to close the box or pallet in advance of the values set in the PLU by following the pathway: *Home\Pro\Totals print*.

At this point, a window will appear where the available totals can be printed (**OK**) or the operation annulled (**ESC**) as required..

Print-out of the box and/or pallet total will be requested as the machine settings change.

To close and print the total of a PLU, follow the pathway *Home\Plu Open*, scroll with the arrows until the required PLU has been selected, then press **Close PLU**.

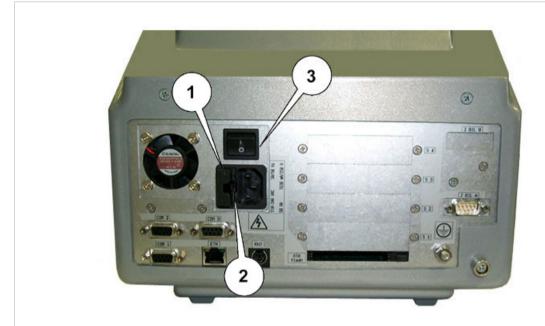## 6.4.2 Advanced use of totals

See advanced user manual.

7. MAINTENANCE

7.1 Internal battery

When the terminal is powered, it checks the condition of the internal lithium battery. If the battery is discharged, the terminal displays the "change the battery" message. To change the battery, contact the Assistance Service.

7.2 How to replace the fuses

Key

1. Fuse-holder
2. Pull-out lever
3. ON/OFF switch

Figure 7.1 - Fuse part *(citi5045.jpg)*

⚠ DANGER ⚠

Disconnect the INPUT/OUTPUT wires and the mains lead.

✔ Refer to *Figure 7.1 on page 1-177.*

✔ Move the power switch to O.

✔ Take out the fuse-holder by pressing the lever.

✔ Replace the fuses with others of the same value (T2A250V).

✔ If the fuses burn out once more when the terminal is powered, do not replace them again but ask for an intervention from the Assistance Service.

8. OPTIONS

8.1 Flash compact with adapter

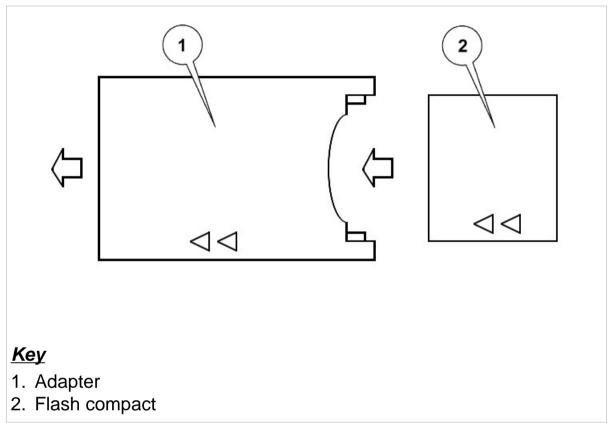

Key

1. Adapter
2. Flash compact

Figure 8.1 - Flash compact in adapter *(citi5046.jpg)*

Insert the flash compact memory into the adapter. Now fit everything into the ATA slot (see point 10 of *Figure 3.2 on page 1-20*).

8.2 Parallel output

The optional parallel output is used for connecting printers and has a 25-pin female connector on an optional slot (see points 6, 7, 8 and 9 of *Figure 3.2 on page 1-20*).

8.3 Software options

✔ A packing list can be printed when the boxes and pallets are closed (even in the forced mode) by connecting a printer to the parallel port. The print-out is made on A4 paper.

✔ The software can handle lots so that fresh foods can be traced (typically beef, but also other types of meat, fish and vegetables). These lots are formed by fields that can be programmed to meet the clients' requests.

9. TROUBLESHOOTING

9.1 Malfunctions and error messages

If the machine operates in a faulty way, error signals are accompanied by a troubleshooting on line function that helps the operator to resolve the problem.

Contact the Assistance Service if the remedies suggested on the screen do not solve the problem.

9.1.1 Terminal

Fault	Cause	Remedy
The terminal does not switch on	No power	Check that power reaches the mains outlet socket. Make sure that the mains lead is correctly plugged in. Make sure that the on/off switch is in position I. Check the fuses.
9999999	The scale is overloaded	Reduce the weight to a value below the maximum scale capacity.

9.1.2 Printer

RED LED   Power on

Status Led:

GREEN ON   On line

GREEN FLASHING   No more paper

YELLOW ON   Syntax error (press the print key to reset the printer)

YELLOW FLASHING Head temperature control activated

YELLOW/GREEN   No more foil (only TT models)
FLASHING

Consult the printer manual for further details.

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