DIBAL

D900 SERIES

USER´S MANUAL DE USUARIO

www.dibal.com

CONTENTS

1 INTRODUCTION 1
1.1 PRESENTATION 1
1.2 MAIN CHARACTERISTICS 1
1.3 CHECKLIST 1
1.4 SCALE SPECIFICATIONS 2
1.4.1 Description 2
1.4.2 Models 3
1.4.3 Main specifications 5
1.5 INSTALLATION OF THE SCALE 6
1.6 MAINTENANCE ADVICE AND HOW TO LOOK AFTER YOUR D-900 SCALES 7

2 OPERATION 8
2.1 STARTING UP 8
2.2 BASIC CONCEPTS 8
2.3 SWITCHING ON 9
2.4 WORKING MODE SELECTION 9
2.5 SALES SCREENS 11
2.5.1 Receipt-1 / Label 11
2.5.2 Receipt-2 12
2.5.3 Self-service 13
2.5.4 Mixed Mode 14
2.6 QUICK PLU PROGRAMMING 15
2.7 QUICK VENDORS PROGRAMMING 15
2.8 WORKING MODES 15
2.8.1 Common configuration in Receipt Mode and Label Mode 15
2.8.2 Receipt Mode 22
2.8.3 Label Mode 30
2.8.4 Self Service Mode 33
2.8.5 Mixed Mode 40

3 MAINTENANCE 42
3.1 ARTICLES 43
3.1.1 New article 44
3.1.2 Edit 53
3.1.3 Copy / Paste 53
3.1.4 Delete 53
3.1.5 Sort by 54
3.2 VENDORS 56
3.2.1 Quick Vendors Creation 56
3.2.2 Edit 57
3.2.3 Delete 57
3.2.4 Delete all vendors 57
3.2.5 Training Mode 58
3.2.6 Visibility 58
3.2.7 Cashiers on semiout 58
3.3 ADVERTISING 59
3.3.1 Advertising sequence 60
3.4 TABLES 61
3.4.1 Sections 61
3.4.2 Traceability 62
3.4.3 Recipes 64
3.4.4 Nutrition 65
3.4.5 Barcodes 66
3.4.6 Tares 67
3.4.7 Payment Modes 68
3.4.8 VAT types 68
3.4.9 Currencies 68
3.4.10 Temporary Promotions 69
3.4.11 Loyalty points 69

3.5 LISTINGS 70
3.5.1 Filters and Header Lines 70
3.5.2 Available Listings 71
3.5.3 Available Listings 78
3.6 TOOLS 79
3.6.1 Loading and Downloading Data 79
3.6.2 Send data to slaves 80
3.6.3 Operations with PC 81
3.6.4 Other tools 84
3.7 DISPLAY 86
3.7.1 User Display Configuration 86
3.7.2 Label removal animation 105
3.8 LABEL 106
3.8.1 Label Formats 106
3.8.2 Labeler Settings 107
3.8.3 Other Settings 115
3.9 RECEIPT 116
3.9.1 Receipt formats 116
3.9.2 Printer Settings 121
3.9.3 Receipt Printing 122
3.9.4 EAN Settings 126
3.10 SETTINGS 127
3.10.1 PC Communication Settings 127
3.10.2 Keyboard Settings 129
3.10.3 Scanner Reading 130
3.10.4 Working Modes 131
3.10.5 Printing 136
3.11 FAVOuRITES 139

4 ICONS 141

5 COMMUNICATIONS 142
5.1 INTERCONNECTION 143
5.2 COMMUNICATIONS CONNECTORS 144
5.3 ETHERNET COMMUNICATIONS PARAMETERS 145
5.4 TURNOMATIC 146
5.5 CASH DRAWER OPENING CABLE 146
5.6 RS-232 COMMUNICATIONS PARAMETERS 146
5.7 SCALES WITH SCANNER CONNECTION 147
5.7.1 Scanner Installation 147
5.7.2 Scanner Barcode reading 147

6 APPENDIX 149
6.1 LOADING IMAGES 149
6.1.1 Article Images 149
6.1.2 Advertising Images 151
6.2 PAPER CHANGE 153
6.2.1 Paper change in ticket printer 153
6.2.2 Change of paper in the labeler 153
6.3 LABEL FORMATS 155
6.4 REGISTER VOUCHER FORMATS 158
6.5 TROUBLESHOOTING 160
6.5.1 Problems with weighing 160
6.5.2 Communication errors 160
6.5.3 Printing Problems 160
6.5.4 Problems with the screen 161
6.5.5 Problems with the Touch Screen 161
6.5.6 Programming Problems 161

7 LINERLESS 162
7.1 MODELS 162
7.2 LABELING ASSEMBLY 162
7.2.1 Linerless cassette 162
7.2.2 Incompatibilities 163

7.3 CONFIGURATION 163
7.4 RECOMMENDATIONS OF USE 163

8 BMP IMAGE LOADING 164

8.1 LOADING ONE IMAGE 164
8.2 LOADING IMAGES FROM USB 165
8.2.1 Automatic loading of item images 165
8.2.2 Automatic loading of advertising images 165
8.2.3 Operation: 166

9 DECLARATION OF CONFORMITY 167

1 INTRODUCTION

1.1 PRESENTATION

The D-900 de DIBAL scales are high-end scales. They are a powerful working tool that helps you get the most out of your business.

This manual should always be kept with the weighing scales in order to ensure maximum performance from your scales in any work situation.

1.2 MAIN CHARACTERISTICS

The Table below shows the characteristics of all the models in the DIBAL 500 Range, and the sections in which the main functions are described.

Furthermore, all the scales in the D-900 series offer:

- TFT Displays
- Touch screen
- Article images
- Advertising images
- Possibility of manual fixed and pre-programmed net weights.
- Programmable formats for receipt and label.
- Possibility of working with 99 sections.
- BACK-UP operations through the LBS program.
- 5 VAT rates.
- Connection to cash drawer or turnomatic.
- Logos on receipt / label.
- Different weighing ranges (see characteristics plate on scales):

MONO-RANGE		MULTI-INTERVAL		MULTI-RANGE	
Range (kg)	**Step (g)**	**Range (kg)**	**Step (g)**	**Range (kg)**	**Step (g)**
3	1	3/6	1/2	3/6	1/2
6	2	6/15	2/5	6/15	2/5
15	5	15/30	5/10	15/30	5/10
30	10				
12	2				

Table 1-1

1.3 CHECKLIST

- Scale
- Mains Cable
- Quick Guide
- CD with manuals
- Accessories:
  - Receipt roll or labels roll (depending on the models).

1.4 SCALE SPECIFICATIONS

1.4.1 Description

1. - Customer's Display

2. - Vendor's Display and Keyboard (Touchscreen)

3. - Receipt printer

4. - Plate

5. - Printer for Labels/Receipts.

1.4.2 Models

Double Body

Flat

Pole Display

Hanging (Stainless Steel)

1.4.3 Main specifications

POWER SUPPLY.....110/230 VAC, 50Hz, 1,3A

PRINTING METHOD ..... THERMAL PAPER

DISPLAY.....TFT DISPLAY WITH TOUCHSCREEN

LABEL DIMENSIONS ..... Dimensions: Width x Length

Maximum Length: 150*mm, Minimum Length: 30*mm
Minimum Width: 20*mm, Width support paper: 63*mm

RECEIPT DIMENSIONS.....

Width: 57 mm. Models with only receipt printer

Width: 60 mm. *Models with receipt/label printer*

COMMUNICATION TO SCALES .....Ethernet*

***** Optional: Wireless, Homeplug

COMMUNICATION TO PC.....Ethernet*

***** Optional: Wireless, Homeplug

ADDITIONAL PORTS..... USB, RS-232

TEMPERATURE FOR OPERATION..... -10ºC to +40ºC

PRECISION ..... 1/3000 || 1/6000 MAX. RANGE

LABEL ROLL DIMENSIONS……..

Internal diameter: 40 mm.
External Diameter: 100 mm.
Width: 59-60 mm.
Support paper Width: 61 mm

RECEIPT ROLL DIMENSIONS……

Models Receipt/Label
Internal diameter: 40 mm. (12 mm. with adaptor)
External diameter: 55 mm. / 100 mm.
Width: 60 mm.
Models Only Ticket
Internal diameter: 12 mm.
External diameter: 55 mm.
Width 57 mm.

1.5 INSTALLATION OF THE SCALE

Follow the instructions below to ensure correct installation and operation of the scales.

1. Check that the mains voltage corresponds to that stated on the specifications label on the scales and that it does not fluctuate in excess of 10% of nominal voltage.

2. Make sure that the scales can be connected to a nearby socket that is easy to access. We recommend that the socket should be provided with differential breaker, thermal-magnetic trips, and **ground**.

3. Make sure that other equipment such as refrigerators, cutting machines, etc. are not connected to same socket.

4. Only use the scales in areas that comply with the room temperature values stated on the specifications label (-10ºC to 40ºC).

5. Peripheral devices connected to the equipment must be protected against fluctuation peaks of above 8A 100VA.

6. The scales must be placed on a stable, level surface.

The operation of the scale is sensitive to its levelling and geographic location changes. In case of doubt when changing the location, consult the manufacturer.

Correctly level the scale at its final location, using the spirit level.

Hanging model scales do not incorporate a spirit level, since they are installed in a fixed location. In any case, in order to prevent malfunction due to improper installation, it is mandatory to level the scale in its final location.

7. No objects must come into contact with the dish.

8. Avoid extreme temperatures. Do not place the scales in direct sunlight or close to air conditioning vents.

9. These scales have not been designed as waterproof scales. Therefore, avoid high levels of humidity since this might cause condensation. Protect from rain and avoid direct contact with water. Do not spray water on the scales or submerge in water. If the scales get wet, switch off the power supply immediately.

1.6 MAINTENANCE ADVICE AND HOW TO LOOK AFTER YOUR D-900 SCALES

By following these recommendations, your scales will remain in perfect working order, thus obtaining a better performance and a longer life.

1. Never place a weight on the scales that exceeds the maximum limit.

2. Do not place weights suddenly on the dish if they exceed a sixth of the maximum limit.

3. Do not exert sideways pressure on the plate

4. Always keep the touchscreen and plate clean. Use a dry cloth (and a suitable cleaning product) to clean the scales.

5. Never pour or spray water on the scales. If the scales get wet, switch off the power supply immediately.

6. Do not move the printer when it is switched on.

7. Do not modify the scales' mechanical or electrical characteristics.

8. Clean the thermal head with the scales switched off. Do not use blades or sharp objects for this purpose.

9. Only have the scales repaired by authorized persons, with suitable training.

10. Always use original parts.

11. It is recommended to keep the scales out of direct sunlight, protected from rain; avoid excessively humid conditions.

The scales leave the factory prepared for **retail sales**. Therefore, labels can be printed at below the minimum limit.

In the case of **pre-packaging** activities, in accordance with legislation in force (Standard EN 45501 and Directive 2014/31/EU), this type of equipment may only be used if packages are above the minimum limit.

The scales can be set up for specific use for pre-packaging tasks. Consult your supplier or technical assistance service.

WARNING:

Disconnect the cable of the mains supply of the scale from the electrical socket if the scale needs to be opened or manipulated.

2 OPERATION

2.1 STARTING UP

Each of the following steps must be completed to start operating the scales:

STEP 1: Install the scales as described in ***paragraph 1.5. Installation of the scale*** and switch on as described in ***paragraph 2.3. Switching on***.

STEP 2: If the scales are being used for the first time, or you wish to program them again, the memory should be deleted (see ***paragraph 3.6.3.4 Initialization of scale***).

STEP 3: Select the working mode (receipt, label, self-service…) of the scale.

STEP 4: Assign each of the vendors who is to use the scales one of the 20 available memories, i.e. register the employees (see ***sect. 3.2. Vendors***).

STEP 5: Program the articles (see ***sect. 3.1 Articles***).

STEP 6: Program the weighing scale communications, i.e., set up the scales as MASTER or SLAVE and assign the corresponding address (see ***sect. 5.1.1.1 Master-slaves settings***).

STEP 7: Select the receipt format or program a new one (see ***sect. 3.9.1 Receipt Formats***).

STEP 8: Program printing parameters for receipt (see ***sect. 3.9 Receipt***).

STEP 9: Set up the label formats (see ***sect. 3.8 Label***).

STEP 10: Program printing parameters for Label (see ***sect. 3.8 Label***).

Start to work with the scales, referring to ***section 2.4 Working Mode selection***.

2.2 BASIC CONCEPTS

Working mode:

Receipt: This mode allows to make sales of different articles and print a ticket with the total amount.

Label: The scale prints a label for every operation done. It is also possible to work in Prepack Mode (Automatic Weighing).

Self-service: you work in this mode by placing a weight on the tray and pressing the corresponding direct key or entering the item code or direct key code, depending on the self-service mode selected. The label of the product selected is obtained, without the need for the cashier to intervene.

Receipt

Label

2.3 SWITCHING ON

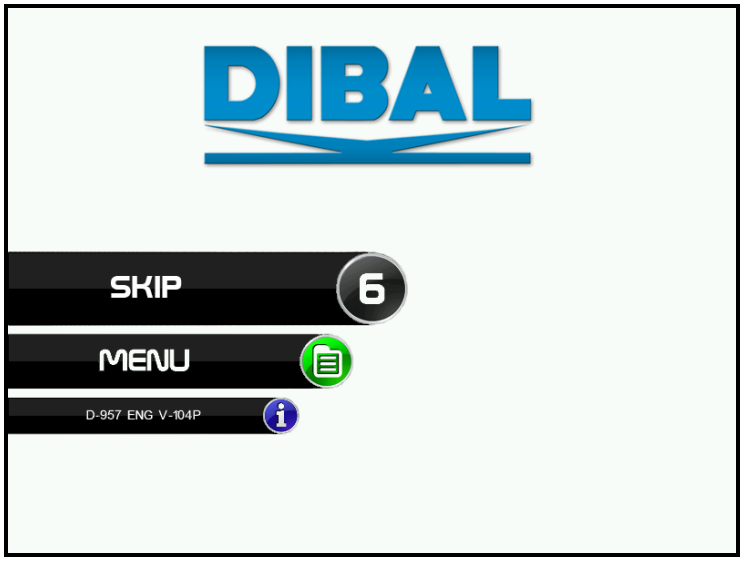
Check that the weighing scales are correctly installed and then turn on the switch on the bottom of the scales.

While the scales are checked for any possible errors, the display shows a countdown from 9 to 0, and information on the model, program version and country is shown.

Skip countdown

Access to programming Menu

Model, Country and Version



When the countdown is complete, and no errors have been detected, the scale shows the working screen.

> When the scales are switched on, there should not be anything on the plate, because when the object is removed, the scales will consider that weight as the net weight.

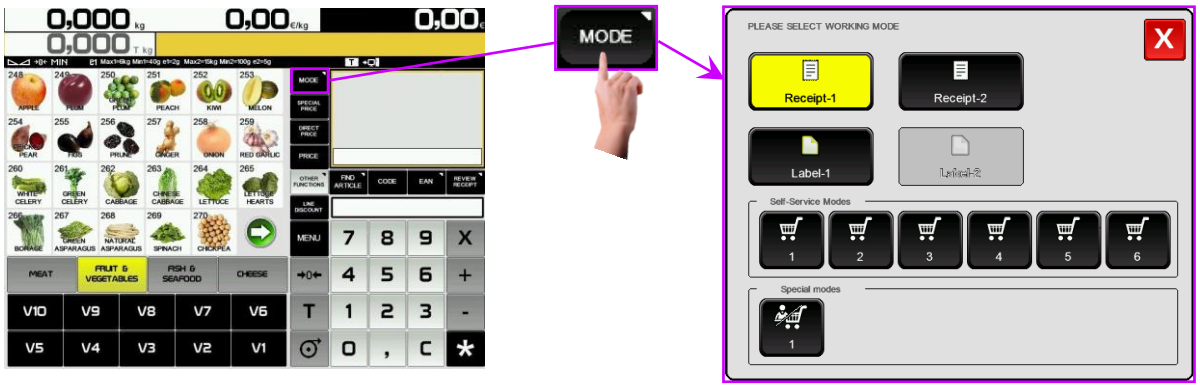
> If the scales are programmed as SLAVE, it will show the message (CONNECTING TO NETWORK) during the starting up, and if 5 seconds later, the corresponding MASTER is not working, the message COMUNIC ERROR, will appear.

It is possible to make a quick startup by pressing the key SKIP at startup.

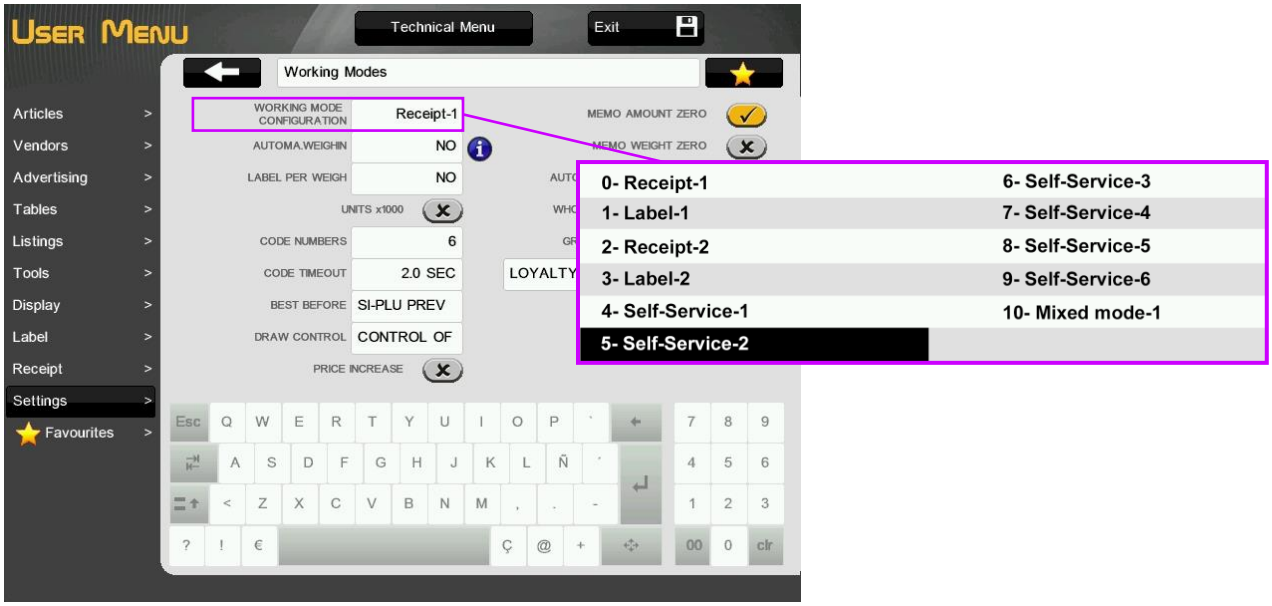
2.4 WORKING MODE SELECTION

The scale offers a variety of working modes depending on the required use. When a working mode is selected, the keyboard (sales screen), the scale's operating procedure and printing parameters are automatically configured. There are two ways to access:

1. To select the working mode, press the **MODE** key on the assisted sale and pre-packaging keyboards and then select the selected working mode.



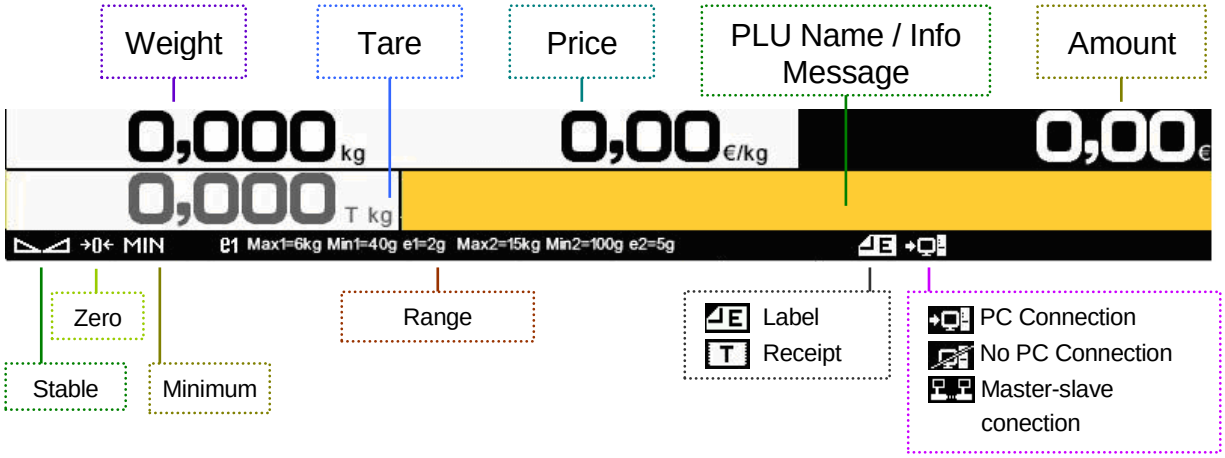
2. Press the MENU key. The scale will access the programming menu, User Menu → Settings → Working modes → Working Mode Configuration.



In the case of self-service scales, to enter the menu, press four times consecutively and alternatively between the lower left side and the lower right side of the keypad (in any of the available screens of the three self-service modes).

2.5 SALES SCREENS

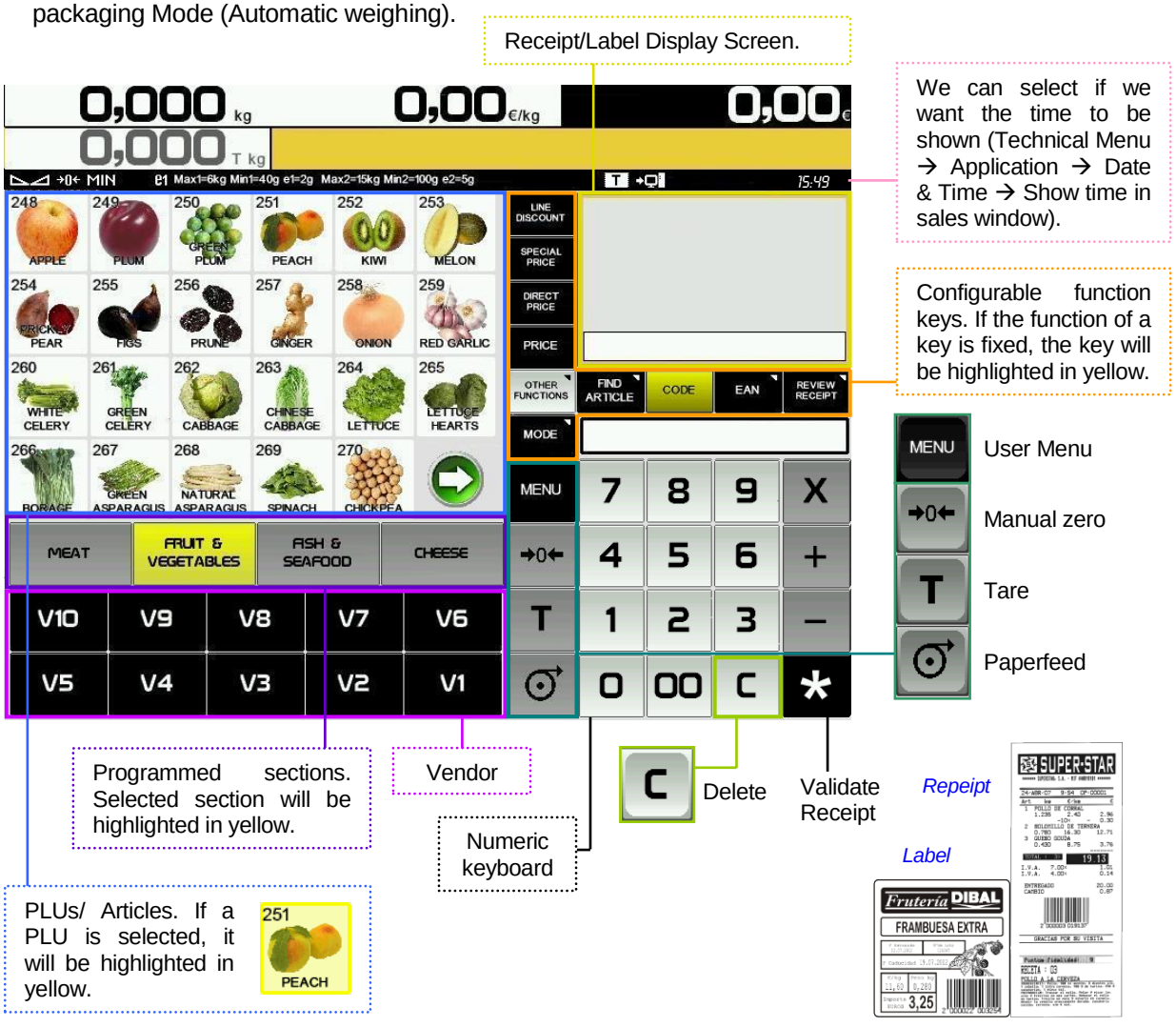
Depending on the working mode selected, the scale has several sales screens with the key layout and functions required for each operating procedure. The different working modes all share the metrological weighing feature, as well as the different icons that display.



2.5.1 Receipt-1 / Label

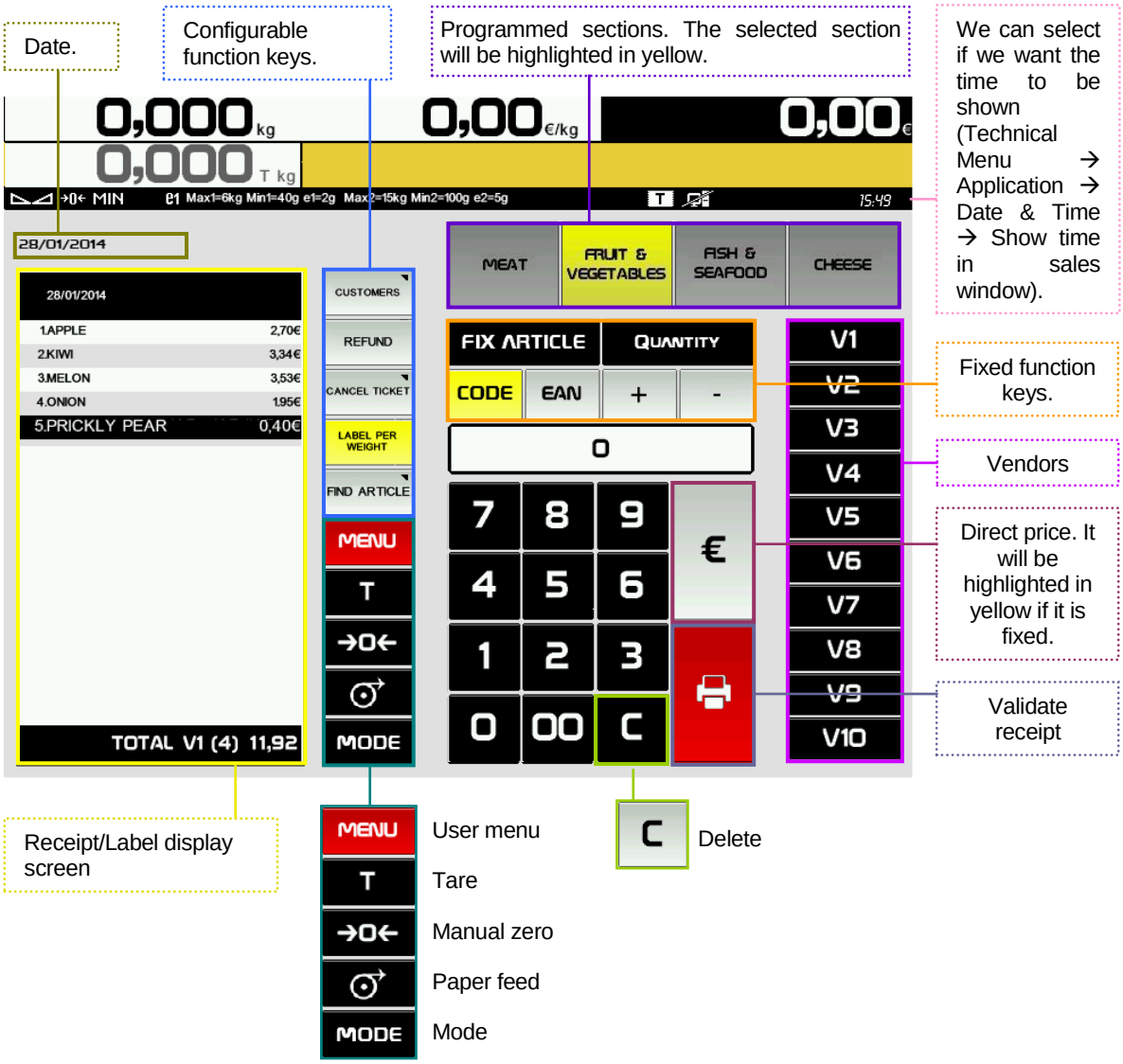
Receipt-1: With this mode you can make the sale of one or several items and print the total accumulated.

Label: The scale prints a label for each recording made, i.e., one per item. You can also work in Pre-packaging Mode (Automatic weighing).



2.5.2 Receipt-2

Receipt-2: In this mode, as in Receipt-1 mode, it is possible to make the sale of 1 or several items and print the total accumulated. This mode has no PLU keys, as it is oriented to work on direct price, by code, with scanner, etc.



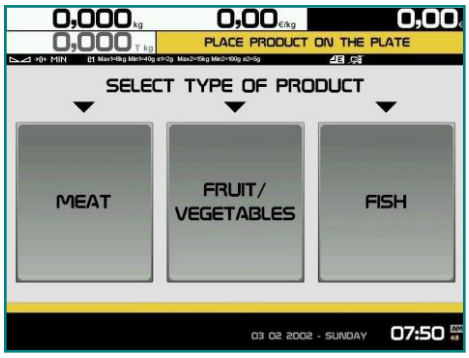
If the function of a fixed or configurable key is fixed, the key will be highlighted in yellow.

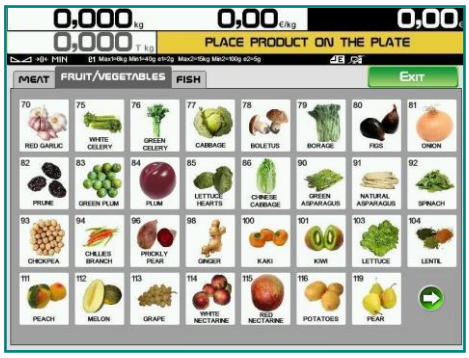
Although the scale allows register 20 vendors, in this mode only 10 vendors will be shown.

2.5.3 Self-service

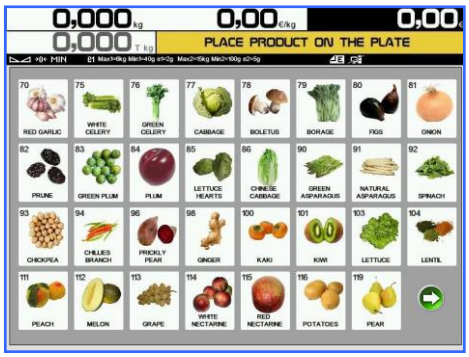
There are three self-service modes, where the selected product's label is obtained without the cashier's intervention (see ***sect. 2.8.4 Self Service Mode***).

Self Service Mode 1

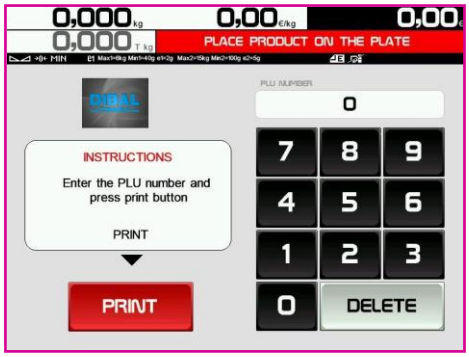




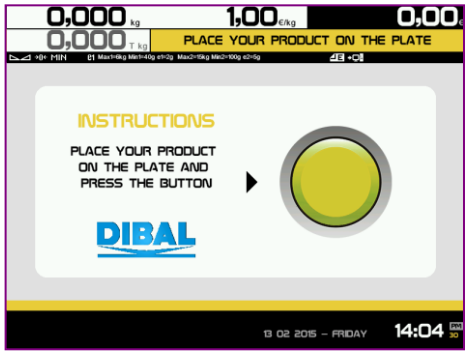
Self Service Mode 2



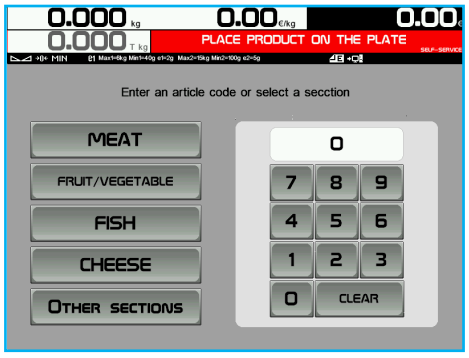
Self Service Mode 3



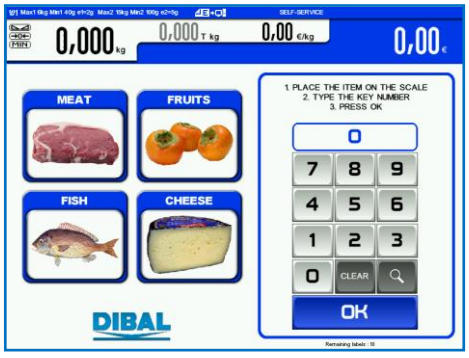
Self Service Mode 4



Self Service Mode 5

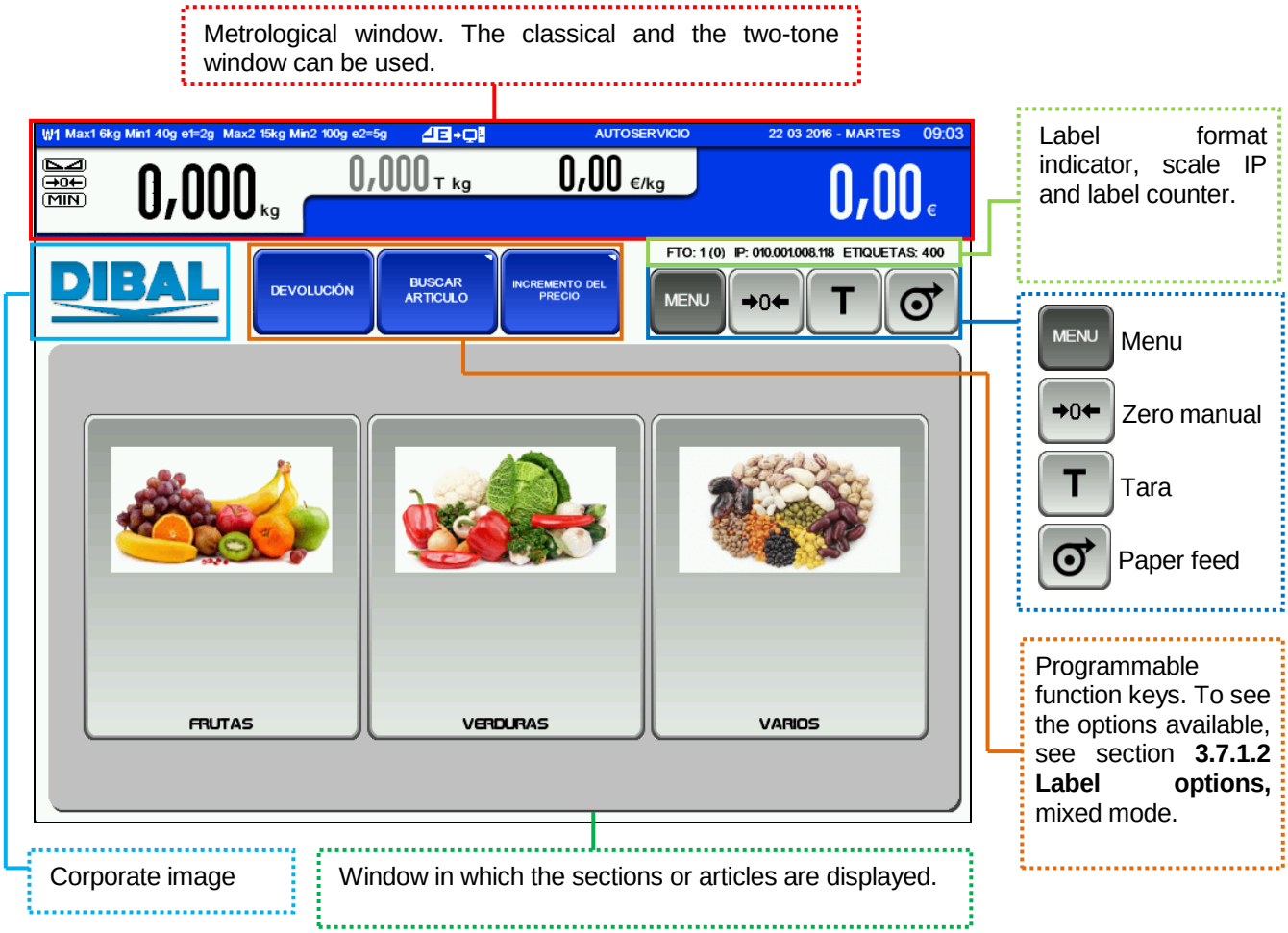


Self Service Mode 6



2.5.4 Mixed Mode

Mixed sales mode combines the self-service -1 mode with an assisted sales screen. Just as in the case of self-service -1 mode, there is a main screen displaying the sections and a second screen with the articles. Both screens also have a limited number of function keys (3). For further information, see ***section 2.8.5 Mixed Mode.***



2.6 QUICK PLU PROGRAMMING

This menu allows to program the articles in the scale.

In D-900 scales it is possible to program 10000 articles (PLU).

Press User Menu → Items → Press [+] and edit the fields, for example: Name, PLU/Direct key, WEIGHED/UNITARY…, Price and VAT type.

For additional information see ***paragraph 3.1 Articles***.

2.7 QUICK VENDORS PROGRAMMING

This menu allows to program the vendors in the scale.

It is possible to program a maximum 20 vendors, User Menu → Vendors → Press [+].

For additional information, see ***paragraph 3.2. Vendors***.

2.8 WORKING MODES

2.8.1 Common configuration in Receipt Mode and Label Mode

2.8.1.1 Normal weighing

1. Place the product to be weighed on the tray.
2. Enter the price in any of the following ways:
   - Pressing the corresponding direct key (of the corresponding PLU).
   - Typing the PLU number and pressing the *Direct Key* button.
   - Entering the item code and pressing the [CODE] button.
   - Reading it with the scanner.
   - By entering the direct price (see ***paragraph 2.1.8.2 Direct Price***)

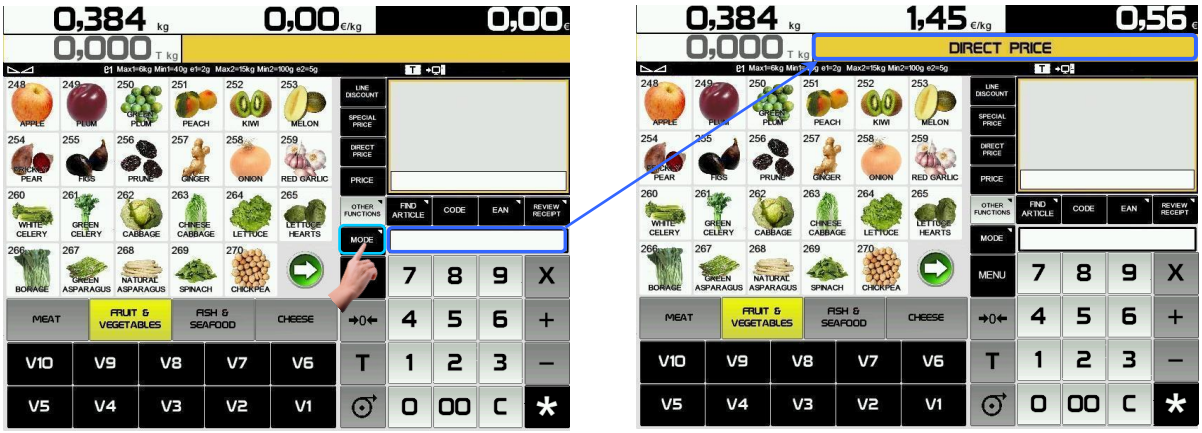
   In the event of an error, press [C]. The price is reset to 0.
3. Record the operation in the corresponding cashier.
4. Remove the article and pass to the next one.

2.8.1.2 Direct price

To enter the Price of the article directly with the numeric keypad, the parameter Direct Price must be enabled (see ***section 3.10.2.4 Direct Price***). To make a direct price sale:

If it is allowed to operate in direct price, but fixing the function is disabled:

1. Place the article on the plate, enter the price with the numeric keypad and press the key DIRECT PRICE (on *Receipt-2* mode, press €). The text **DIRECT PRICE** will be show in the display.
2. Press the corresponding vendor key.
3. To deactivate the option DIRECT PRICE, remove the weight from the plate or press C.



If it is allowed to operate in direct price and it is possible to fix the function:

1. If the function Direct Price is not fixed, fix it by pressing DIRECT PRICE (on *Receipt-2* mode, press €). The key will be highlighted in yellow. If the function is already fixed, skip this step.
2. Introduce the price directly. You do not need to introduce commas or to press the key Direct Price.
3. Press the corresponding vendor key.
4. Repeat the operation as often as required.

2.8.1.3 Operations without weighing (adding, dividing and multiplication)

It is possible to work with items that are not sold by weight (price/kg) but have a price/unit, such as a bottle of milk.

The scale must have enabled the options Addition, Multiplication and Division.

To do it, select:

User Menu → Settings → Keyboard Settings → Multiplication/Division/Addition ✓ (see ***paragraph 3.10.2 Keyboard Settings***).

The working mode is the following:

A. Converting a weighed product into a unitary product.

1. Select the item (see ***paragraph 2.8.1.1 Normal weighing***).
2. If there is more than one unit enter the number of products and press X (on *Receipt-2* mode, press QUANTITY).

   ❗Addition must be enabled to multiply the weighed items.
3. Press + or − depending on whether you want to add or substract a unit.
4. Record the operation in the corresponding cashier.

B. Direct price must be enabled (see ***paragraph 3.10.2.2 Direct Price***).

1. Press + or − depending on whether you want to add or substract a unit.
2. Enter the price/unit of the product (see ***sect. 2.8.1.1 Direct Price***) and press PRICE or DIRECT PRICE (on *Receipt-2* mode, press €).
3. If you wish to add or subtract more than one unit before recording, enter the number of products and press X (on *Receipt-2* mode, press QUANTITY).
4. Record the operation in the corresponding cashier.

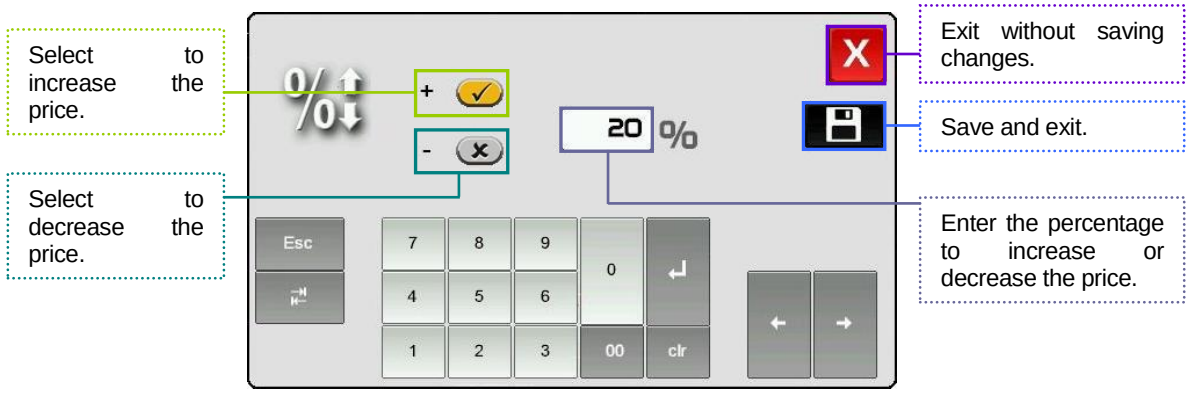
> If the MULTIPLICATION parameter is set to "Force units" (*User menu → Settings → Keyboard Configuration → Multiplication → Force Units*), then the units must be indicated in all unit sales. Therefore, if an attempt is made to memorize a unit sale that is not multiplication, the scales will beep and the message "UNITS" will appear on the display:

2.8.1.4 Manual zero

The scales are equipped with a manual reset to zero mechanism. If, for any reason the value of the weight is not zero, but it is within a certain range, press key →0← , to reset the weight to zero. No tare must be selected to do this.

2.8.1.5 Price increase or decrease

If the parameter *Price increase* is activated (see ***sect. 3.10.4.9 Price increase***) and we press PRICE INCREASE after entering a price, the next window will be shown. We can enter the percentage value to increase the price.



> This procedure is compatible with adding and subtraction of one or more articles to be weighed.
> In-line discount is not compatible with this procedure (see ***sect. 2.8.2.1 Discount in line***).

2.8.1.6 Operations with Tare

There are three types of tare: Tare associated with each PLU, preset tares or manual tare.
The tare is shown in bottom left side of the metrologic part of the display.

The TARE ASSOCIATED WITH EACH PLU is programmed in the tare field when creating or modifying the PLU's (see ***paragraph 3.1 Articles***).

To work with PROGRAMMABLE TARES:

1. Place the product to be weighed,
2. Enter the number of a programmable tare
3. Press the key TARE N.
4. Enter the price and record the operation.

The preset tares are programmed in ***menu 3.4.6 Tares***.

To do a MANUAL TARE there are two options:

A. Using the Tare [T] key:

1. Place the weight to be tared on the tray.
2. Press the Tare [T] key. With a long press instead of a short press you can set a fixed tare.

B. Using the Tare item [0,000 T kg],placed on the metrologic part of the display:

1. Place the weight to be tared on the tray.
2. Press the Tare item [0,000 T kg]. With a long press instead of a short press you can set a fixed tare.

To cancel the tare setting, empty the tray and press Tare [T] key or the Tare item [0,000 T kg].

2.8.1.7 Free Price and Offer Price

A. To make an operation with a Price different from the Price programmed in the article:

1. The configuration parameter Free Price must be enabled (User menu → Settings → Keyboard Settings → Free Price ✓) and place the product on the tray.
2. The item must have the Alter Price function enabled (User Menu → Articles → Others Tab → Alt. Pri. ✓)
3. Press the PLU key or enter the PLU code.
4. Enter the price with the numeric keypad and press [PRICE].

   The price of the article will change for the current operation.

B. To make an operation with the Offer Price programmed in the article:

1. Verify that the label format in use has programmed the fields Offer Price an Offer Amount (see ***paragraph 3.8.1.1 Program Label Formats***). If these fields are not programmed in the label format, the label will not be printed.
2. Make sure that the special offer price is recorded in the PLU you are going to use. (Menu → Articles → (Article Edition, Offers) → Offer Price).
3. Select the item and press Special Offer Price [SPECIAL PRICE]
4. If you wish to sell in Receipt mode, change the working mode (see ***sect. 2.4 Working Mode selection***).

2.8.1.8 Weight refund

If you wish to return a product that has already been weighed and the corresponding amount has been accumulated, the associated parameter must be set up correctly (User Menu → Settings → Keyboard Configuration → Weight refund ✓, see ***paragraph 3.10.2.1 Weight Refund***).

Then proceed as follows:

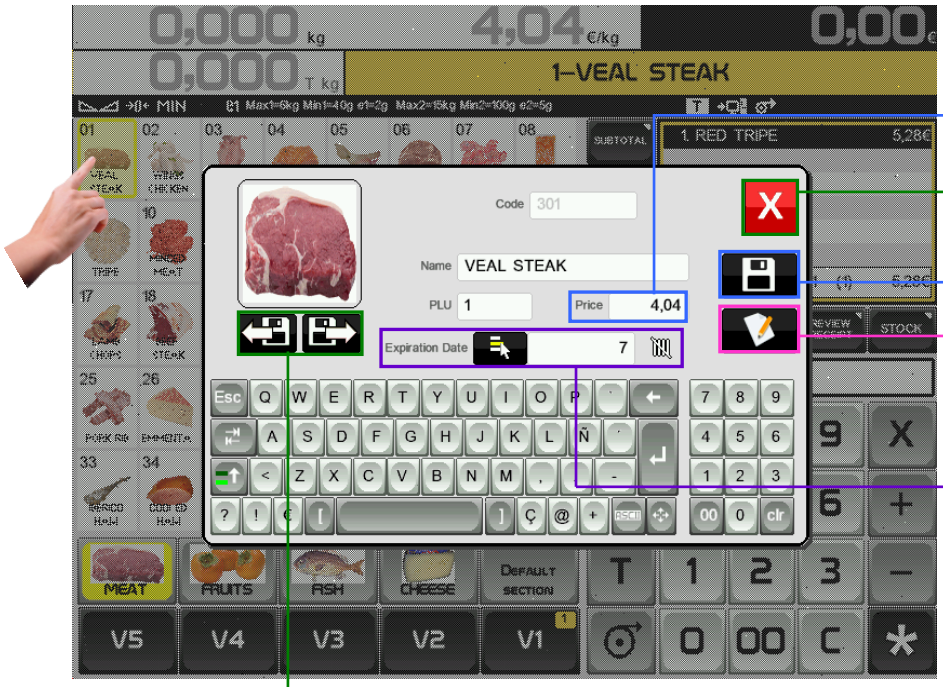
1. Replace the article on the platform.
2. Select the corresponding PLU.
3. Press [REFUND].
4. Press the key of the corresponding vendor.

2.8.1.9 Quick Price Change of an article

It is possible to see and edit some parameters of the PLU in the sales screen. To do it, the parameter Alter Price must be enabled (User menu → Articles → *Article edition, Others* → Alter Price ✓).

Keep pressed the PLU key for 2 seconds, the screen for article data edition will be shown:

Enter article expiration date. We can change between number of days, date or number of minutes and hours clicking in



PLU Price

Close

Save changes and exit.

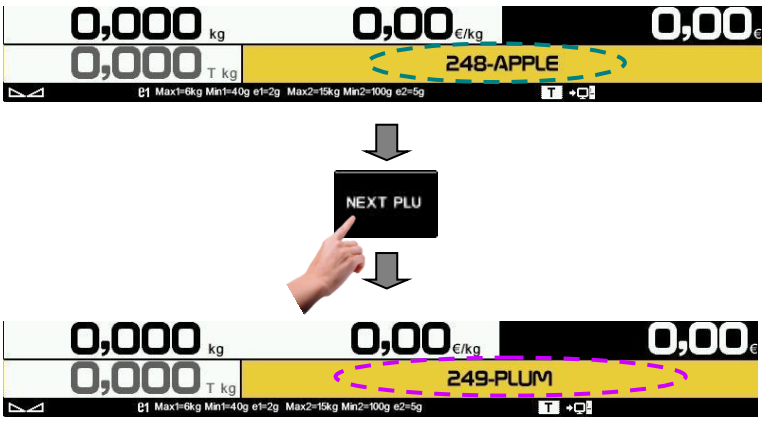
Edit the article

Enter article expiration date. We can change between number of days, date or number of minutes and hours clicking in .

Press this buttons to go to the next/previous article by code order. The current article will be saved with the changes we have done.

2.8.1.10 Next/Previous PLU

Press PREVIOUS PLU or NEXT PLU to select the next/previous article by code order.



2.8.1.11 Only codes

This option allows to insert code numbers without having to press the key CODE.

To activate this mode go to Technical Menu → Application → Basic Settings → Other Settings → Only Codes ✓.

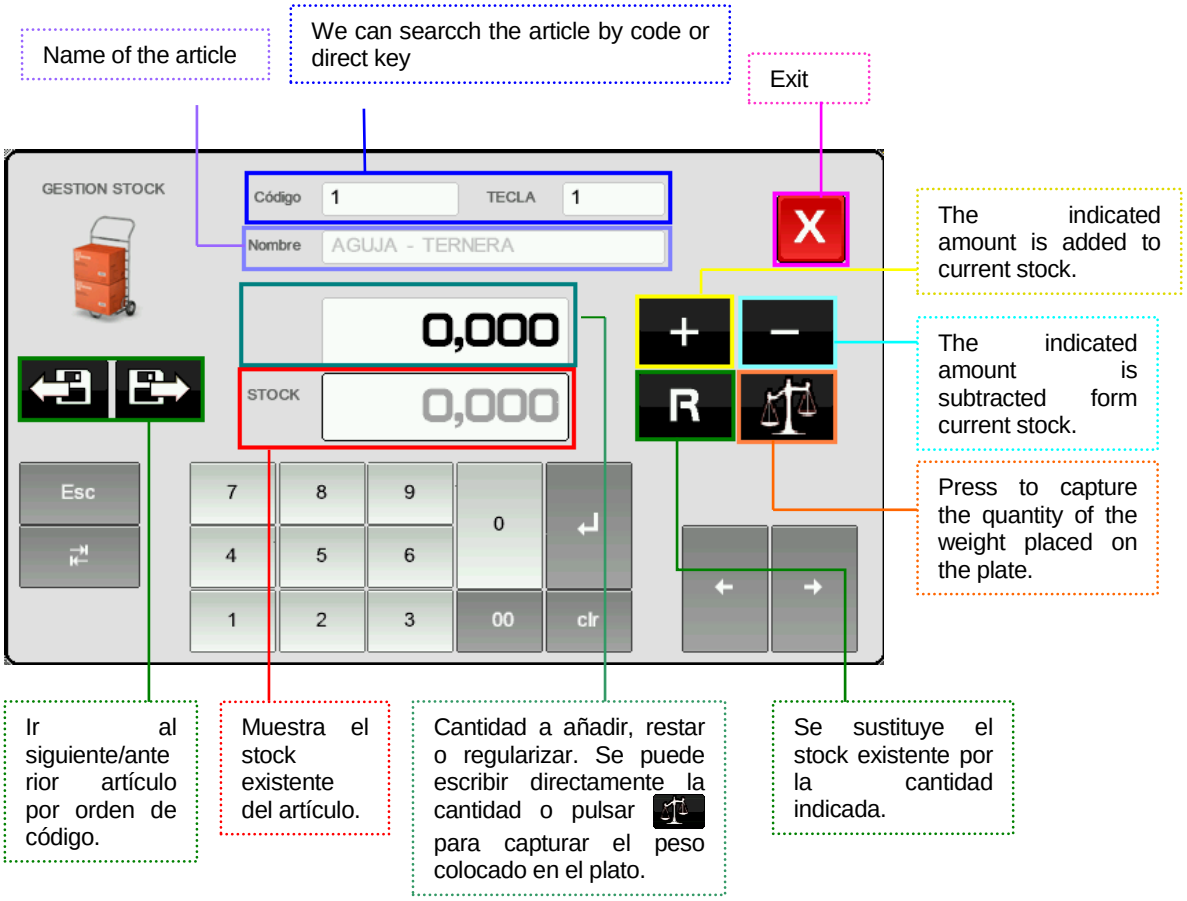
To change between the only codes mode and the normal mode, press the key CODE (in only codes mode it will be marked with a yellow frame).

2.8.1.12 Stocks management

With this new functionality, you take control of the stock you have in the shop for different articles.

As the sales are made, the quantities sold will be discounted (see sect. ***3.6.4.1 Stock control***) having an inventory of the stock you have in the shop the whole time.

When the order is received, the operative must enter the amounts received in the scale, either by keyboard or by weighing them. To do it, working on receipt or label mode, press STOCK (only for master scales). The next screen will be shown:



The **Tare Percentage** articles work with the gross weight.

The **Return** articles do not make sense in this operation.

Once entered the wanted quantity, and pressed +, - or R, the scale will ask for confirmation.

For each article we are updating in the stock, the machine will print a record of the movements done indicating: Article Code, Description, Original Stock, Type of Movement, Quantity, Resulting Stock.

2.8.1.13 Paper type

With this function you can change the scale's paper type without having to enter menu. When you press the

button, a window displays where you can then select the paper type.

2.8.1.14 Basic operation 500 Range

If we activate this parameter (Technical Menu → Application → Basic Settings → Other Settings) the behaviour of DIRECT PRICE, CODE, PRICE, X (multiplication) and LINE DISCOUNT keys is modified. Also the key

is replaced by the key

.

DIRECT PRICE:

While the key

is activated, everything we type through the numeric keyboard will be interpreted as direct price until we deactivate the key (by pressing it) or until we press the key

(which is incompatible with *Direct Price*).

CODE:

While the key

is activated, everything we type through the numeric keyboard will be interpreted as article codes until we deactivate the key (by pressing it) or until we press the key

(which is incompatible with *Code*).

PRICE:

To activate this key we must have an article selected. Once the key

is activated, everything we type through the numeric keyboard will be interpreted as article price until we deactivate the key (by pressing it), until we press the key

(which is incompatible with *Price*) or until we memorize the transaction. If the price of the article is 0,00, the key *Price* will be activated automatically when we select an article.

MULTIPLICATION:

While the key

is activated, everything we type through the numeric keyboard will be interpreted as units to multiply with until we deactivate the key (by pressing it), until we press the key

(which is incompatible with *Multiplication*) or until we memorize the transaction.

COMMA:

In *Receipt-1* and *Label* working modes, the key

is replaced by the key

.

2.8.2 Receipt Mode T

In this working mode it is possible to make the sale of one or more articles and print the total amount of all the operations.

2.8.2.1 Discount in line

In **receipt mode**, this option permits a percentage discount to be applied to a certain article. Proceed as follows:

1. Check that the parameter for applying discounts has been set up correctly (User menu → Settings → Receipt → Receipt printing → Discount in Line ✓, see ***paragraph 3.9.3.4 Discount in line***).
2. If we are not working on Receipt mode, change the working mode (see ***sect. 2.4 Working Mode selection***).
3. Effect the normal weight operation as far as the memorization step, without actually memorizing.
4. Enter the PERCENTAGE discount to be applied. (For example 50 represents 50%) This discount will be directly reflected in the amount on the display and it will be applied to the receipt on the corresponding article line.
5. Press the key LINE DISCOUNT.
6. Memorize and continue with normal operation

> If the parameter *Basic operation 500 Range* (see ***sect. 2.8.1.13 Basic operation 500 Range***) is activated, the key *Discount in line* refers to the price increase/decrease screen (see ***sect. 2.8.1.5 Price increase or decrese***) but with the option *Increase* disabled.

2.8.2.2 Receipt printing: Change calculation and discount in total

To print the total operations effected by a sales assistant, proceed as follow:

1. If we are not working on Receipt mode, change the working mode (see ***sect. 2.4 Working Mode selection***).
2. Effect a memorization operation in accordance with the sections above. For example, with sales assistant V2.
3. To print the receipt press * (on Receipt-2 working mode, press 🖶) The scales will request the number of the sales assistant with which the last operation is to be printed.
4. Press the corresponding sales assistant key for whom the operation is to be printed. For example V2.
5. If the option Discount in Total is enabled (User Menu → Receipt → Receipt printing → Discount in Total → YES, see ***paragraph 3.9.3.3 Discount in Total***), the scale will show the number of vendor, the number of articles in the receipt and the total amount. The scale will ask for the percentage of discount to be applied to the receipt. Enter the value and press the key PRINT TICKET to print the receipt.

If Discount in Total is not enabled, the scale will show the number of vendor, the number of articles and the total amount and pressing PRINT TICKET it will print the receipt.

6. If the option Exchange Calculation is enabled (User Menu → Receipt → Receipt printing → Exchange Calc. → YES, see ***paragraph 3.9.3.1 Exchange calculation***), it is possible to type the amount tendered by the customer. The display will then show the amount tendered by the customer, the amount to be returned by the sales assistant or the change, and the amount to pay. Press the key PRINT TICKET to print the receipt.

If no other operation is effected using the same memory, the receipt may be printed as many times as required (see ***sect. 3.9.3.7 Receipt copy***), and the following text will appear on the receipts:

***** Copy *****

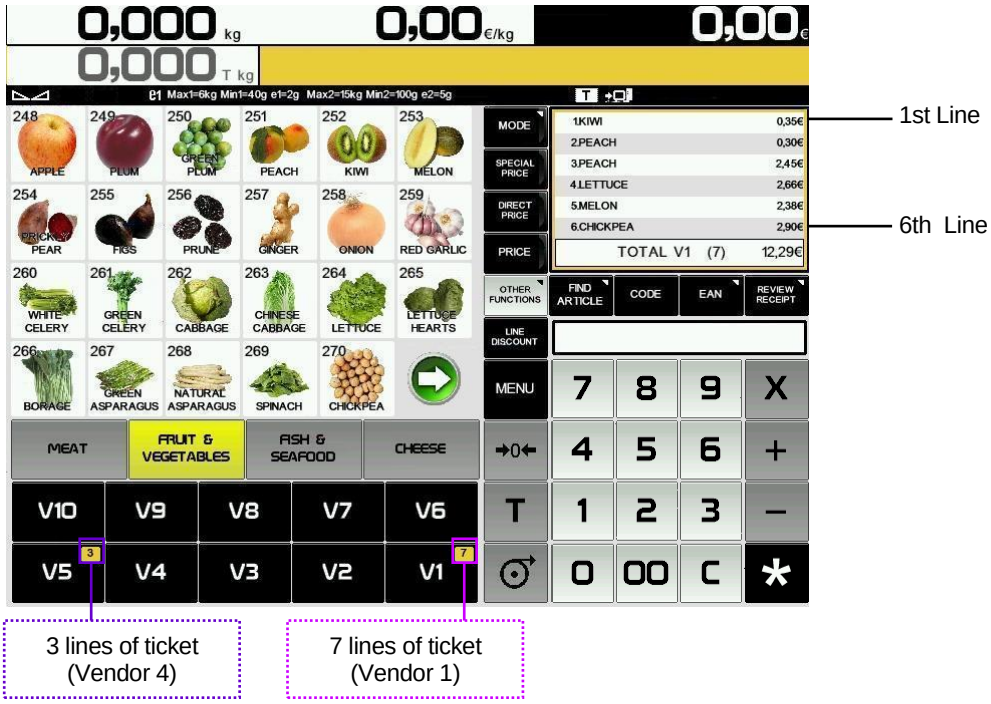
If other data is memorized in the same memory, it is presumed that the operation corresponds to a new customer, and data will be reset to 0.

2.8.2.3 Review receipt

To review operations effected by a sales assistant, press the key REVIEW RECEIPT or press and hold the receipt on the screen, **before** the corresponding receipt is printed.

A. The receipt is shown in the upper right part of the display.

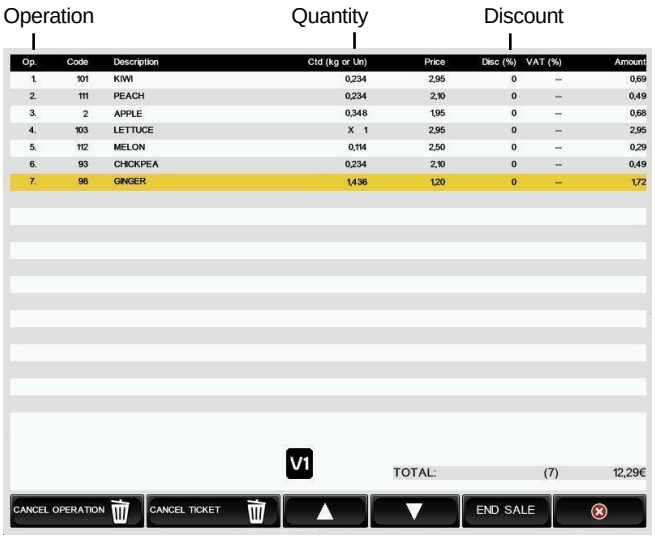
1. When the receipt has 6 lines (8 lines if there are no function keys on the bottom part), all of them are shown in the receipt window. When the receipt has more than 6 lines it is possible to scroll down or up to see all of them (see the next two points).



2. By pressing the upper side of the list it is possible to see the upper lines of the receipt.

3. By pressing the lower side of the list it is possible to see the lower lines of the receipt.

B. By pressing the receipt window for several seconds or by pressing REVIEW RECEIPT, the scale shows more detailed information of the receipt.



1. Select the operation to be checked. To cancel this operation press Delete Operation CANCEL OPERATION.

2. To cancel the complete ticket press Delete Ticket CANCEL TICKET.

3. To print the ticket press the key END SALE END SALE, to exit the revision and continue adding more operations to the ticket press .

2.8.2.4 Cancel Ticket

It is also possible to cancel a whole receipt on the sales screen, by pressing CANCEL TICKET and then selecting the vendor for which we want to cancel the receipt.

2.8.2.5 Receipt reopening

It is possible to reopen the receipt when it has already been printed. The parameter Receipt Reopening must be enabled, (User Menu → Receipt → Receipt printing → Receipt reopening → ≠ 0, see ***paragraph 3.9.3.8 Receipt reopening***).

Depending on the type of reopening you choose, the scale will behave in one way or another.

Reopening set between 1 and 8:

In these reopening modes, you can only open each cashier's last receipt (the reopening can be timed or not depending on the type of type you have set)

To do this, and after effecting the operation with the customer:

To reopen the last receipt printed by one particular sales assistant, press the key REOPEN RECEIPT and the corresponding memory key. The receipt will then be reopened in order to delete or add sales.

> ❗ If after printing the receipt for one transaction, the scales are changed to *label mode*, it will not longer be possible to reopen the receipt.

> ❗ When another operation is memorized in the same memory, the previous receipt can no longer be reopened.

> ❗ If the RECEIPT REOPENING parameter is set to 9, the scales will allow any receipt to be reopened.

Reopening set at 9:

Working with REOPENING OF RECEIPT at 9, any receipt already closed can be reopened. To do so, follow these steps:

1 – Press REABRIR TICKET key, and the following screen will display:

There are two options at this screen, reopening the last receipt or reopening a receipt by its number.

- If you wish to reopen the last receipt printed by a particular cashier, press the Ultimo ticket Last Receipt key and then you will be requested to specify the cashier.
- If you wish to reopen the previous ones, enter the number of the receipt to be reopened using the numeric keypad and press the OK key. Then, the scale will display a message for you to specify with which cashier you wish to reopen the receipt.

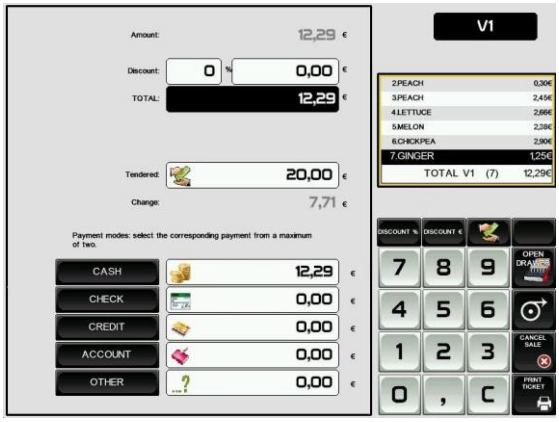
If the receipt number exists in the memory and can be reopened, a message indicating that the receipt has been recovered will display. Otherwise, the scale will display the “non-valid receipt” message.

2.8.2.6 Payment modes

This feature allows to enter the payment mode used for the receipt. The sales in the different payment modes can be listed separately. The scale includes 9 payment modes, 5 of them are preprogrammed and 4 of them are user programmable.

The working mode is the following:

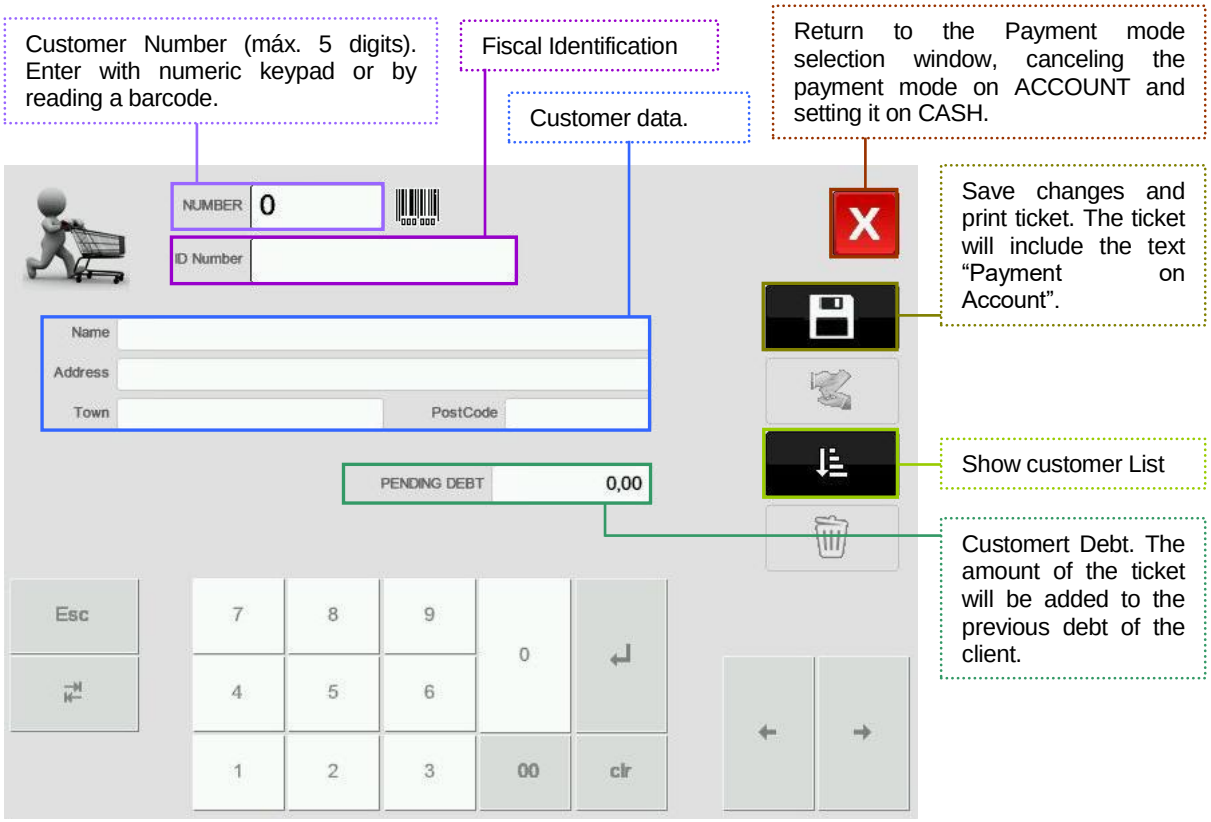
1. Press the key * to print the receipt (on Receipt-2 working mode, press).
2. Press the selected vendor key (i.e. V1).
3. The scale will show a window including the payment mode selection.
4. Enter the quantity paid with every payment mode (maximum 2 payment modes).
5. Press Print Ticket to print the receipt.



2.8.2.6.1 Payment on Account

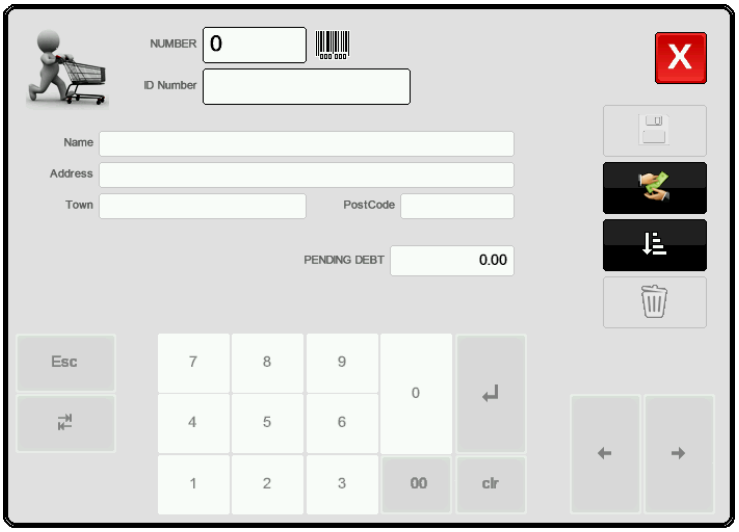
To activate the payment mode on account, program the parameter Client Number (User Menu → Receipt → Receipt printing → Customer Number → 4 to 6, see ***paragraph 3.9.3.2 Customer Number***).

After recording a sale in receipt mode, the scale will show the window for entering the payment mode. If the payment mode "Account" is selected the scale will show the window for entering the client data after pressing the key IMPRIMIR TICKET.

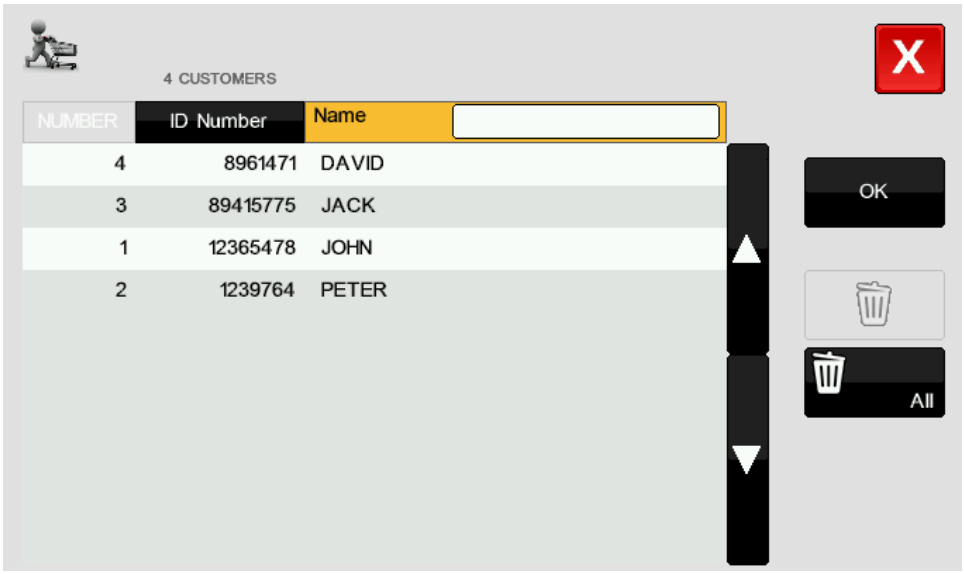


In payment to account mode a receipt cannot be closed until it has been assigned a customer

Press the CLIENTES function key in normal operating mode to see the customers memorised. The same screen as that when paying in payment to account mode will display, with the different options you enable when a customer is selected.



If you press , a screen with the list of customers existing in the scale will display.

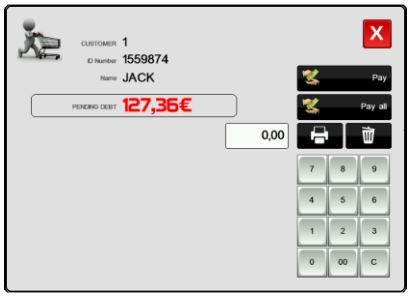


If you select one of the customers from the list, the button is enabled and you can remove this customer. This screen also includes a button for removing all customers Todos.

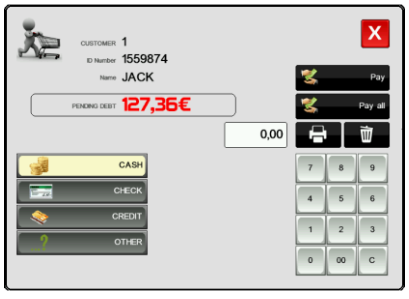
Press to make payment of part or all of an existing customer's pending debt. The quantity paid will be deducted from the quantity owed by the customer. A record will be printed of the time and date, customer code, customer name and sum owed before payment, the amount paid and the amount pending payment. The format of this record has the same parameters as the receipt, i.e., the same headings, logos, etc.

This operation is affected by the payment mode type selected, without payment mode, one payment mode or two payment modes.

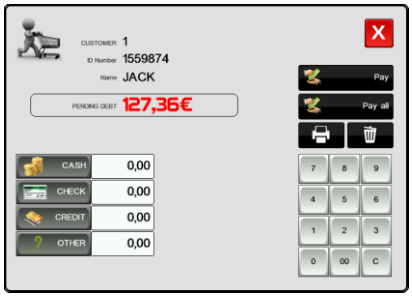
Without payment mode



One payment mode



Two payment modes



A customer may leave a certain amount as a deposit, and this is reflected as a pending negative sum.

Customers can be removed by pressing only if the balance is 0.

In the Lists menu it is possible to see the List of customers on credit (see ***paragraph 3.5.2.16 On credit customers***).

> ❗ *A customer memory does not become free even if his/her balance is at zero.*

2.8.2.6.2 Two payment modes

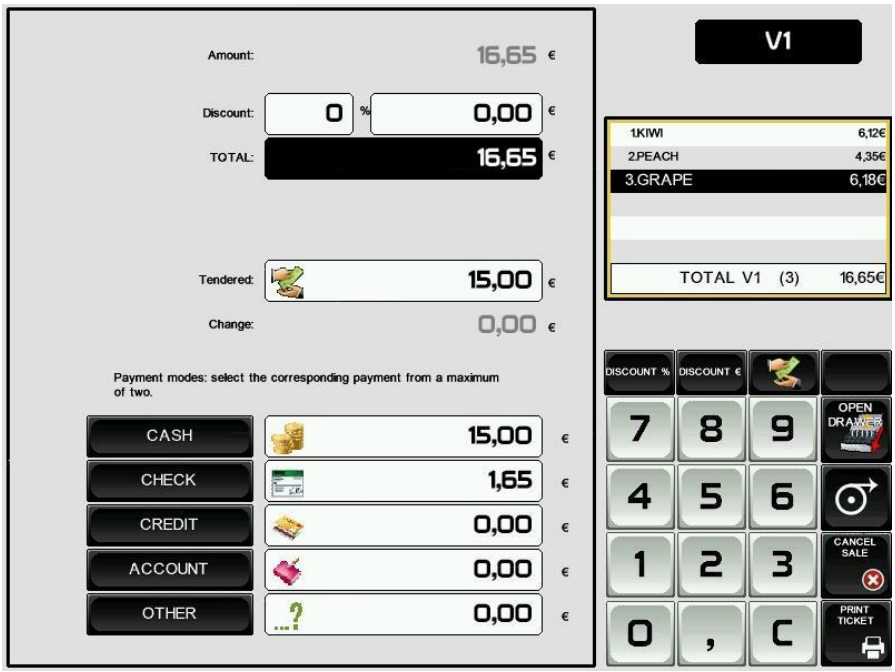
This function allows to select one or two payment modes. To activate or deactivate it select the menu User Menu → Receipt → Receipt printing → Two payment modes.

- ► If the parameter *TWO PAYMENT MODES* is "***0-Without payment mode***", it means that you are always going to work with just one type of payment mode *by receipt which will be payment in full and the payment mode cannot be changed when payment is being made*.
- ► When the parameter is set to "**1- One payment mode**", only one mode of payment will be used in the receipt.
- ► When the parameter is set to "**2- Two payment modes**", two payment modes will be used in the receipt.

See below an example of working with two payment modes:

- The first payment mode: Cash.
- The second payment mode: Check.

After pressing * (on Receipt-2 mode) and the vendor key, the scale shows the following screen:



1. Enter the discount (if this option is enabled and needed).
2. Press the key of the first payment mode CASH. Enter the quantity paid with the first payment mode.
3. Press the key of the second payment mode CHECK Enter the quantity paid with the second payment mode.
4. Press Print Ticket PRINT TICKET. The ticket is printed showing the quantities paid with every payment mode.

> ! In any event, if the amount entered for payment by means of the first form of payment is equal to or greater than the total due, it is understood that the exact total is paid through one form of payment, which is the one that has been selected.

> ! If after entering the quantity to pay with the second payment mode, the total quantity to pay is not completed, the quantity to pay with the first payment mode will raise automatically until the total is completed. If the first quantity is modified and the total quantity to pay is not completed, the quantity to pay with the second payment mode will raise automatically.

2.8.2.7 Subtotal

This function makes a partial total of a receipt, providing information on the status of the receipt but it implies no change in accounting as it is only modified when the receipt is closed. There are two ways of making the subtotal.

1. Make the subtotal from the first line.
2. Make the subtotal since the last printed subtotal

To use this function, firstly we have to assign a programmable key to subtotal operation

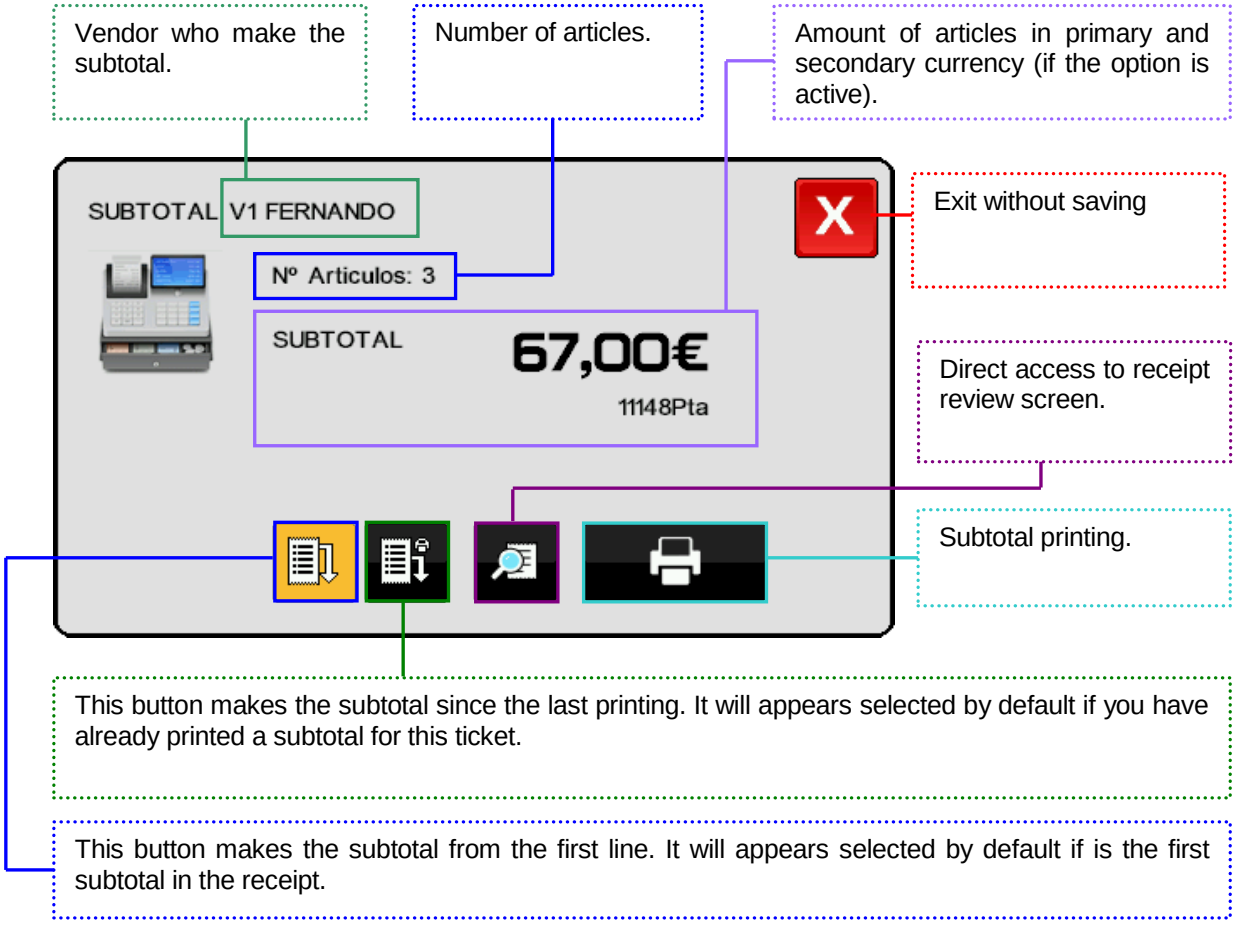
, (see section 3.7.2.1 **Ticket operations**).

Once articles will be recorded, press the key

to make the subtotal.

Press the vendor which has been stored products.

The following screen will be shown.

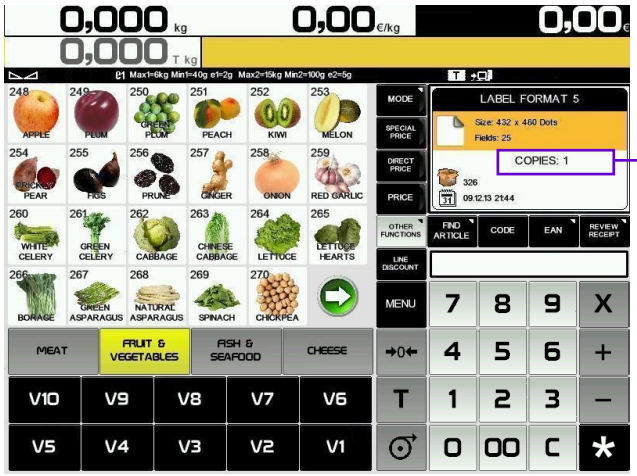


2.8.3 Label Mode

The scale prints a label for every operation done. It is also possible to work in prepack mode (Automatic weighing).

To work in label mode do the following:

1. Put he weight on the plate or select the number of units for a non weighed article. The press the vendor key, the label will be printed.
2. To print copies of the last label, enter the number of copies with the numeric keypad, press the key COPIES and press the vendor key.



To work in prepack mode:

Enable the parameter Automatic Weighing (User menu → Settings → Working Modes → Automatic Weighing → With Selection of memory or Without Selection of memory, see ***paragraph 3.10.4.2 Automatic Weighing***)

If the parameter Automatic weighing is programmed as “With Selection of memory” it will be necessary to select the vendor key in the first operation.

If the parameter Automatic weighing is programmed as “Without Selection of memory” the operation will be cumulated to vendor V1 or, if the scale is configured as slave, to the memory *Slave Number +1*.

Select the article and fix it with the key Fix Article FIX ARTICLE.

The scale will print a label every time a weight stable is reached after a variation, without pressing any key.

2.8.3.1 Fix Article

This process is used to effect operations with the same article, and to do this the corresponding parameter must be set up correctly (User menu → Settings → Keyboard Settings → Fix Price ✓). There are two ways to proceed:

A. Using the key Fix Article FIX ARTICLE.

1. Place the required article on the platform.
2. Select the article to be fixed.
3. Press FIX ARTICLE to fix the price.
4. To deactivate the fixed price press C.

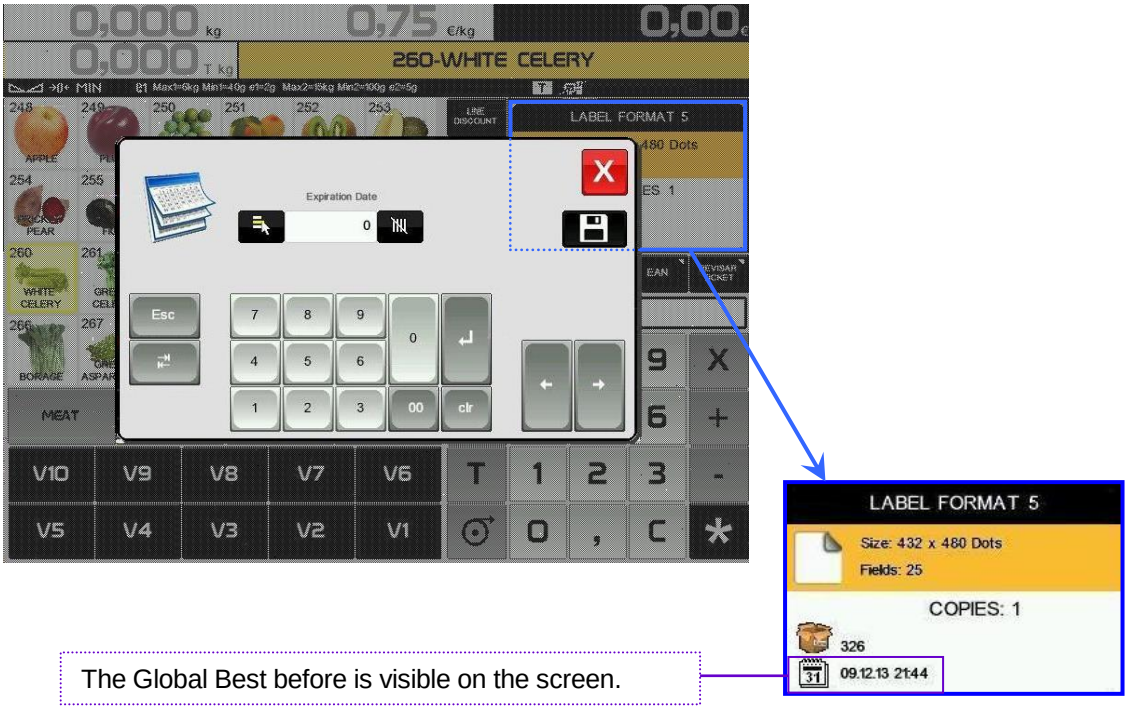
B. Using the item Price 0,00 €/kg, placed on the metrologic part of the display.

1. Place the required article on the platform.
2. Select the article to be fixed.
3. Press and hold the item Price 0,00 €/kg.
4. To deactivate the fixed price press C.

2.8.3.2 Global Best Before

If in the expiry configuration there is a value set up that allows the Global expiry date (User menu → Settings → Working Modes → Best before, see ***paragraph 3.10.4.7 Best before***), it will be possible to select the global temporary expiration data. To do this:

1. Make sure that the weighing scale is a MASTER and it is in the working position.
2. Press Global Best before EXPIRY DATE.
3. Program the expiration data. The Format of the expiration data can be changed by pressing.
   a. Exact date in the format dd/mm/yyyy (day/month/year).
   b. Number of days from the date of printing the label (+000).
   c. Exact time in the format (hh:mm).

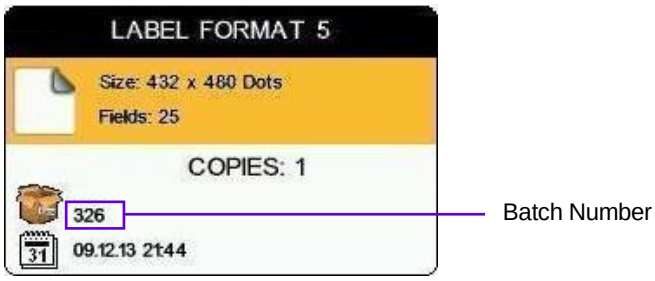


The Global Best before is visible on the screen.

2.8.3.3 Batch Number

In **D-900** scales it is possible to program a batch number, which can be alphanumeric with a maximum of 24 characters, in which a global reference to labels of articles may be assigned when the scales are in label mode.

To program the batch number, press BATCH NUMBER and enter the batch number. By default this value will be the number of days passed from the beginning of the year, for example the day 9/9 will correspond to batch number 252 (253 if it is a leap year).



2.8.3.4 Totals labels

With this procedure it is possible to issue a label with the totals of the previously issued labels. There are two modes of operation:

2.8.3.4.1 Normal accumulation label

After issuing several labels, you can request a label with the totals of the previous operations. To do this:

1. Press *.
2. Select the totals level (see ***section 2.8.3.4.1 Totals levels***).
3. Press the key of the vendor who effected the operations.

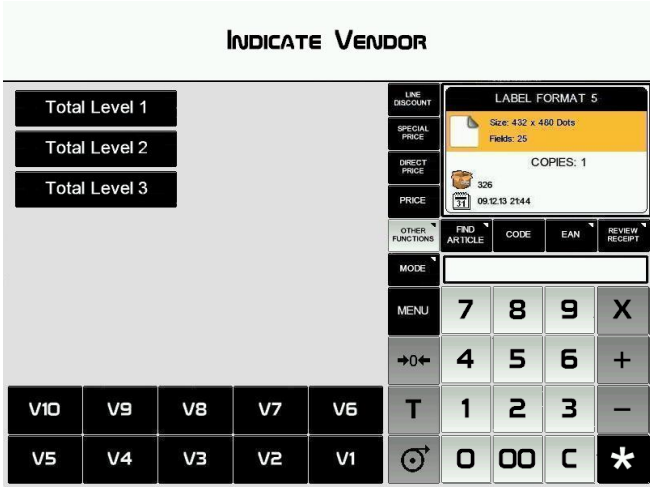
In this case, the totals will be calculated from the labels issued from this memory key since the last time a totals label was printed.

2.8.3.4.2 Totals label for one article

The weight and amount values will be accumulated for one particular code. If a different code is selected, totals accumulated until then will be reset to zero. To select this accumulation mode, review parameter *Allow label mode* (see ***section 5.1.4.1. Allow label mode***). To print a totals label for one article:

1. Press *.
2. Select the totals level (see ***section 2.8.3.4.3 Totals levels***).
3. Press the key of the sales assistant who effected the operations.

If we do not choose any level, a copy/copies of the last label issued by that vendor will be printed (see paragraph *Copies* of the ***section 2.8.3. Label mode***).



2.8.3.4.3 Totals levels

D900 scales have three totals levels. When a totals label is printed for one level, the data automatically accumulates on the totals label on the next level up.

Each accumulated level has an associated label format and EAN code format. If there is not an EAN total code defined, is taken the label default value “Ean-13 format label”.

If the article is not changed at accumulation level 1, the label fields that correspond to the PLU itself (code, name, price, etc.) will show PLU data.

In this case too, level 1 labels will show the expiry date even if the parameter *Allow label mode* is not set to ‘*3 – It obliges. With accumulation of totals per article*’ (see ***section 3.8.2.8.5 Allow label mode***).

However, if the article has changed, nothing will be shown in these fields, except in the name field, which will show "Accumulated total".

If parameter *Allow label mode* has a value of ‘*3 – It obliges. With accumulation of totals per article*’, then PLU data will be shown at all levels. Furthermore, in this case, when an article is changed, the accumulative totals at all three levels will be deleted.

2.8.3.5 Selection of a default vendor

It is possible to select a default sales assistant so that the sales assistant key does not have to be pressed. To do this, parameter must be set-up (User menu → Settings → Working Modes → Automatic Weighing, see ***paragraph. 3.10.4.2 Automatic Weighing***).

A. If the configuration parameter automatic weighing is ‘WITH SEL MEMO’:

Working in **label mode**:

The automatic weighing mode will be effected with the default memory.

> Memorizations cannot be effected on a memory that is being used by another machine, because the latter will block the memory.

B. If the configuration parameter automatic weighing is ‘WITH SEL MEMO’:

Working in **label mode**:

The automatic weighing mode will be effected without the default memory.

2.8.4 Self Service Mode

The way it works in this mode is performed by placing a weight on the plate and when pressing the corresponding key label. The label of the required product is printed without requiring the intervention of a vendor.

In self-service mode only direct keys are operative.

To print a label:

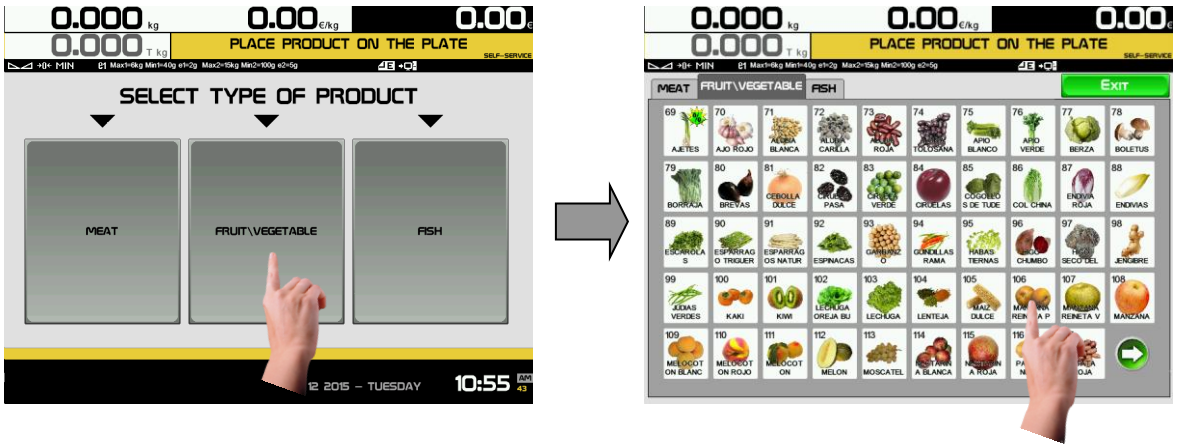
1. Put the product on the plate.
2. Press the PLU key.
3. The scale saves the operation and prints the label.

> To enable Self Service Mode, see ***paragraph 2.4 Working Mode selection***.

> All the operations done in the scale will allocated as sales to the memory 1 or, if the scale is configured as slave, to the memory *Slave Number +1.*

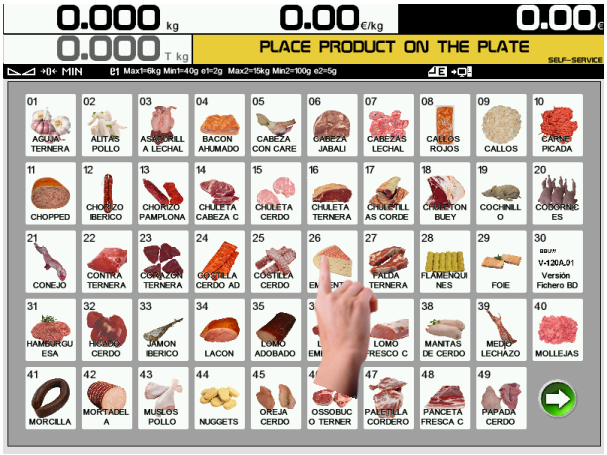
2.8.4.1 Self Service Mode 1 (Sections)

In this mode, after placing the product in the plate, select the corresponding section, then the scale will show the articles corresponding to this section. Press the key of the selected article and the scale will print the label. In the event that there is no visible section or only one visible section, this self-service mode will look the same as self-service mode 2.



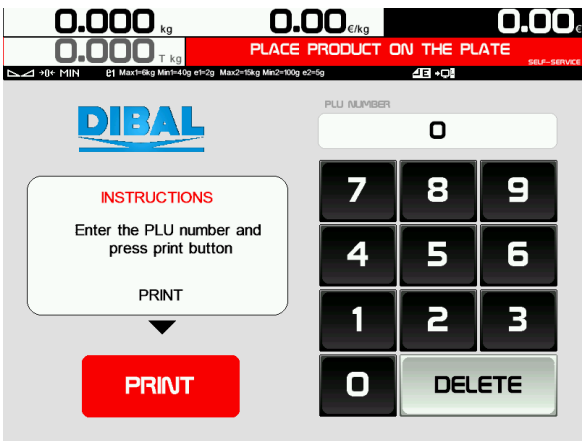
2.8.4.2 Self Service Mode 2 (Keys)

The scale shows all the direct keys in the first screen.
After placing the product in the plate, press the key of the selected article and the scale will print the label.



2.8.4.3 Self Service Mode 3 (PLU Codes)

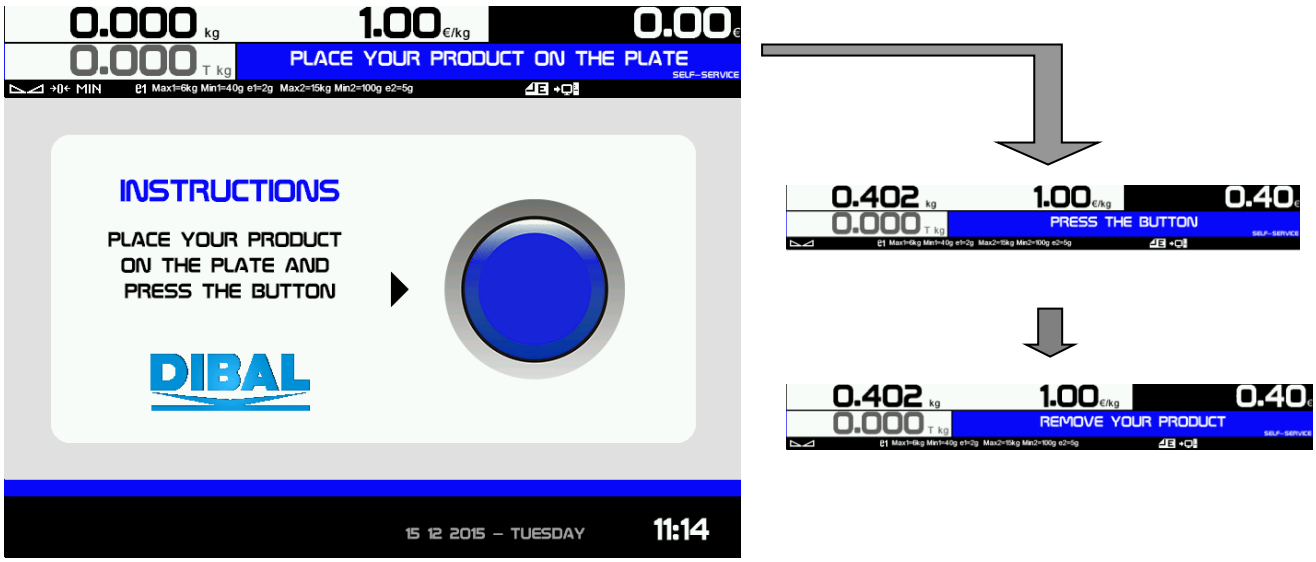
The scale shows a screen for entering the Article PLU Code.
After placing the product in the plate, enter the PLU Code of the article by means of the numeric keypad, once entered press PRINT to print the label.
In case of error entering the PLU Code, press DELETE to start again.



2.8.4.4 Self Service Mode 4 (Single weight article)

This mode only allows us to sell a single article. We can select this article in user menu→working modes (see section 3.10.4 Working modes). If the pre-selection set-up is at 0 or if it has a non-existing code, the first article will be selected by default.

Place the article on the plate and press the screen button to sell the article. When the sell is done remove the label from the scale and paste it in the bag. The scale will be showing the steps to finish the sell.



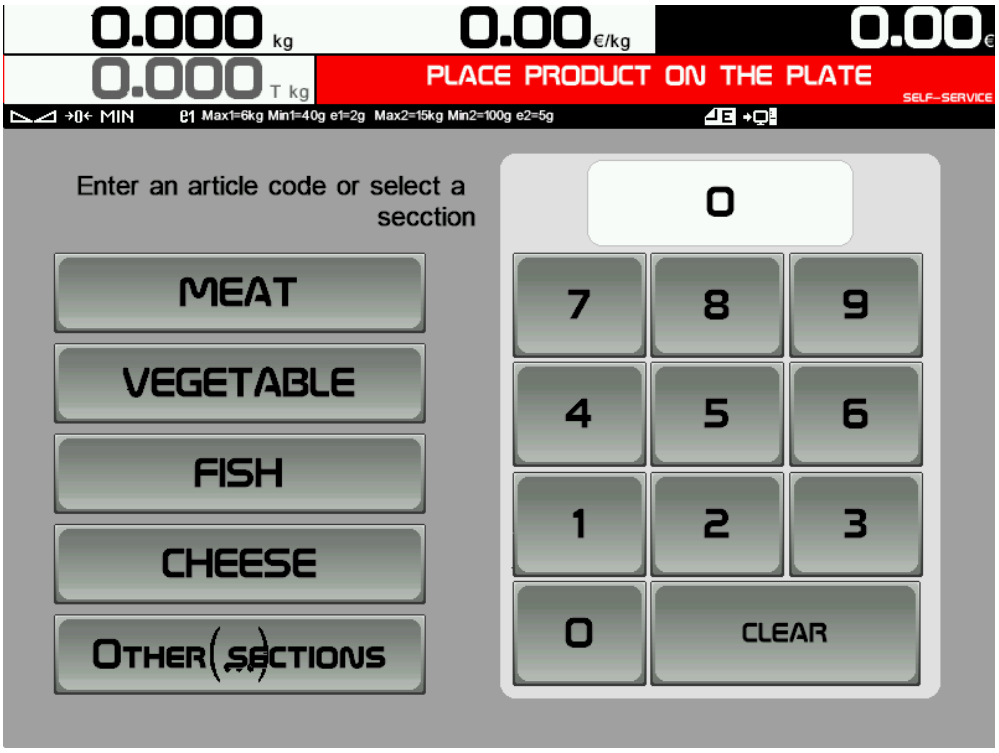
2.8.4.4.1 Self Service mode with theme 1

When sales are made in self-service mode with the theme 1 selected, the scale will show an intermediate window asking to remove the label.

> ! The theme 1 may cause that some self service modes buttons do not be displayed correctly, since the button will be the articles image.

2.8.4.5 Self Service Mode 5

In this self-service mode there is a main screen, as shown below, where there is a maximum of 5 section keys and a numeric keypad for entering the article code.

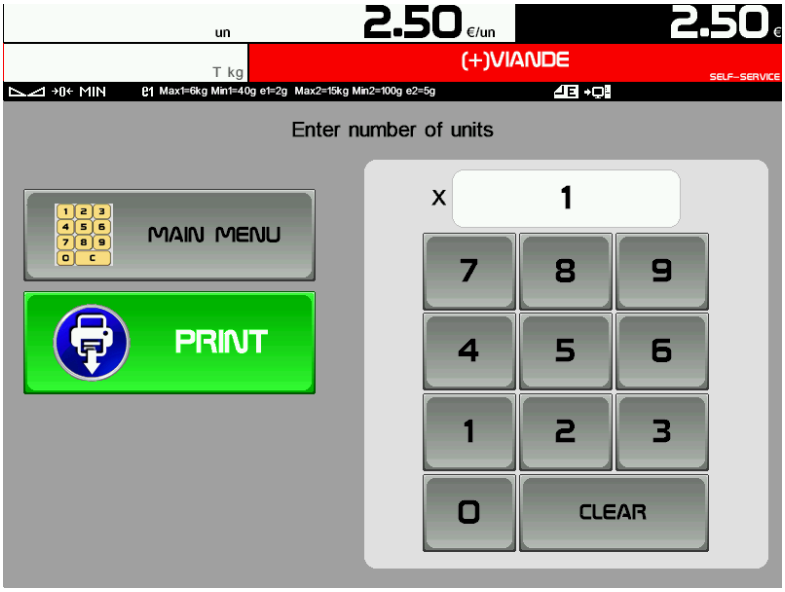


To continue operating, you will need to place a weight on the pan. Otherwise, when you try to make the sale, the scale will emit an error beep and display a message. Depending on the country set for the device, this message can be replaced by a display similar to the one below.

2.8.4.5.1 Operating by code

When the article code is entered, there are different situations:

- If the product is weighed: the label is printed.
- If the product is unitary: a screen displays allowing you to enter the number of units:



2.8.4.5.2 Operating with section key

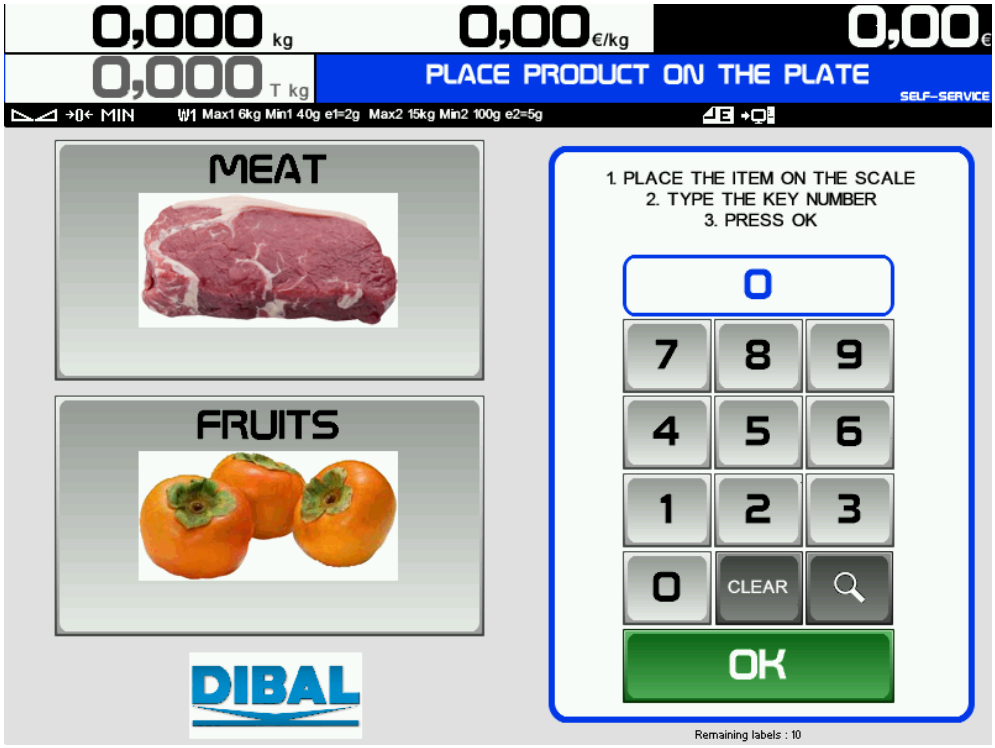
Another way to operate is to press the section keys. In this case, a screen displays, as shown below, which shows the articles associated with this section:

Once the article is selected, it gives rise to two possible situations, just as in the case of sale by code:

- If the product is weighed: the label is printed.
- If the product is unitary: the same screen as in the sale by code displays, and you can enter the number of units.

2.8.4.6 Self-service mode 6

In this self-service mode, we have a main screen, in which there are a maximum of 4 section keys, which can be rearranged depending on the number of active sections. There is also a numeric keypad for entering a direct key number.

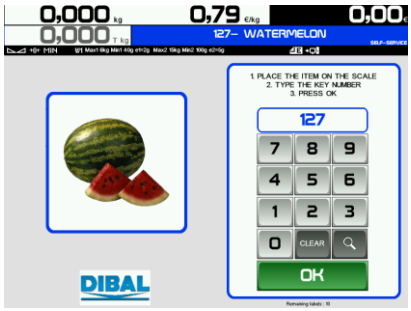


Below is a sample of how the scale arranges the sections depending on their number.

2.8.4.6.1 Operating by direct key code

When an item's direct key code is entered, it is called up. Depending on the type of image the item has been assigned, item image, associated advertising image, or no image, it will be displayed in one way or another.
If we press the zoom button, the scale will add zeros to the left of the number entered until a total of 3 digits is reached.

Article image



Advertising image

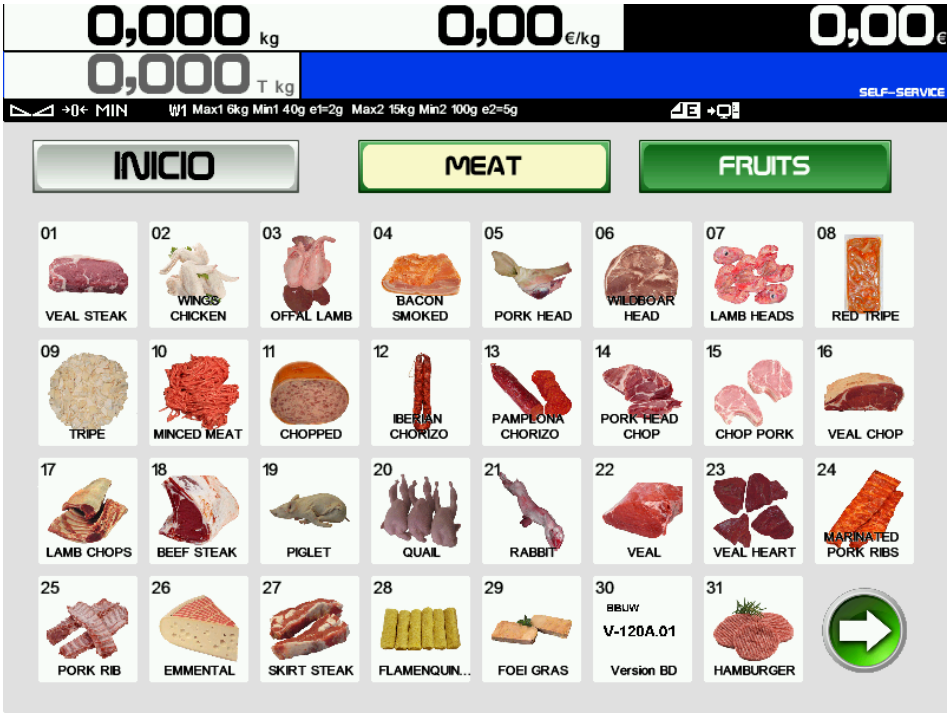
Without image

Once the item is called up, the OK key must be pressed to make the sale of the product.

If you press OK before completing the three digits, the scale will complete the number with zeros to the left and it will make the sale of the product.

2.8.4.6.2 Operating with the section key

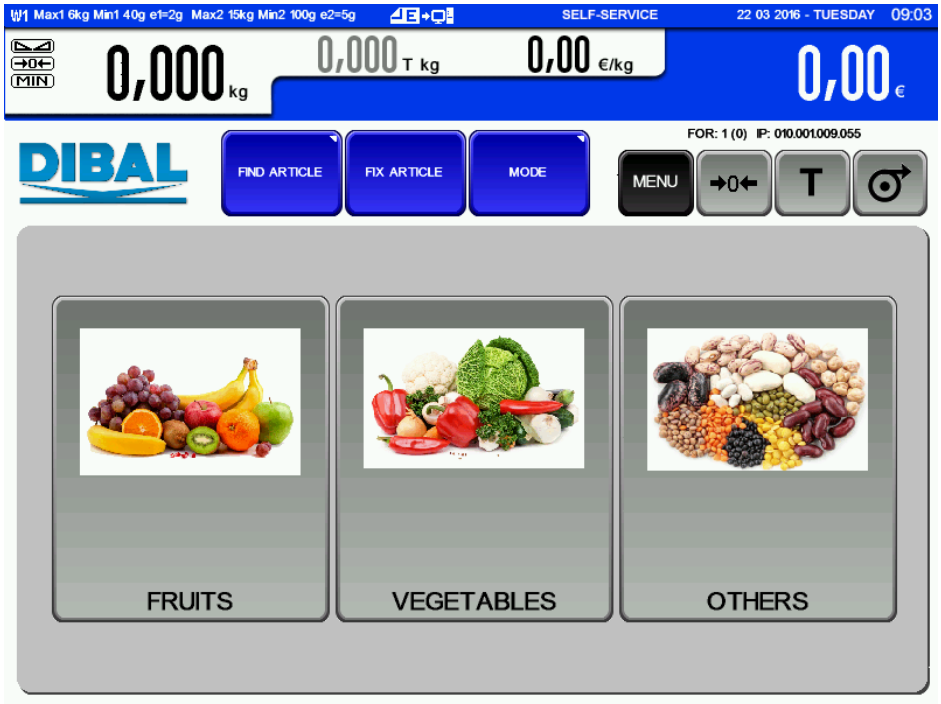
Another way of operating is to press the section keys. In this case, a screen like the one below will display showing the items associated to this section:



To make the sale of the product, just press the required item.

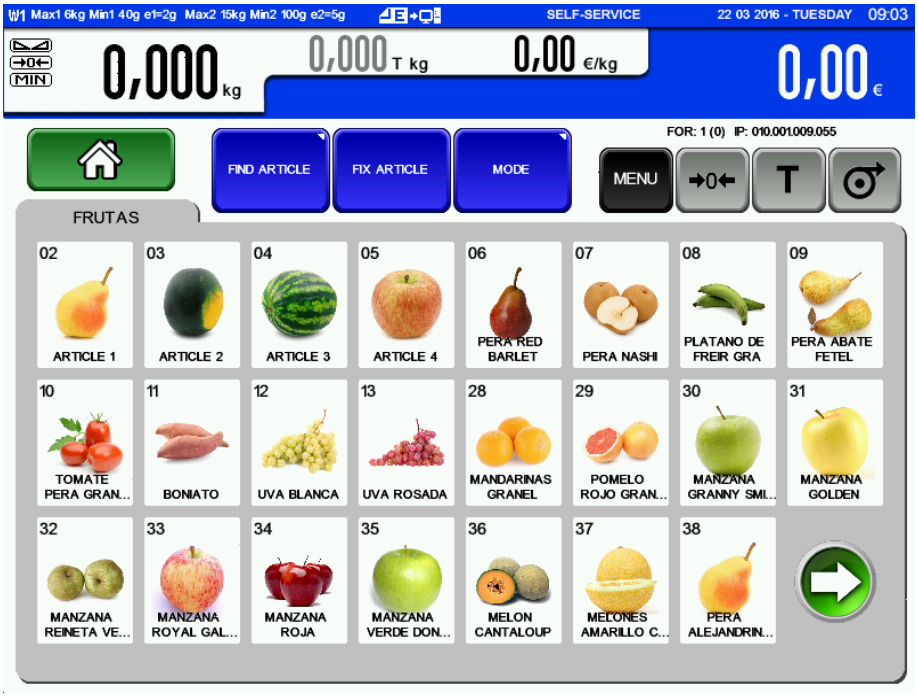
2.8.5 Mixed Mode

With this sales mode, the sales screen is very similar to the self-service-1 screen except for the fact that it also has 3 programmable buttons and 4 set buttons, menu, manual zero, tare and paper feed.



Unlike self-service-1 mode, in this working mode, you can display 15 sections. The scale distributes the buttons according to the method selected and gives the buttons the appropriate size for all the sections to be displayed.

In the articles screen, the corporate image is replaced by a Back to Main Screen button.



To make a sale of a product, first you place the weight on the tray and select the product. In the event that the product is of the unitary type, no weight need be placed on the tray. Just select the product.

Once the sale is made, the scale returns to the main screen, where the sections are displayed.

As is the case with receipt and label mode, the function keys can be configured in section 3.7.1.2 **Label operations**.

3 MAINTENANCE

The DIBAL D-900 scales come with a programming system based on menus, i.e. a hierarchical and coded menu structure, which allows a quick and easy programming.

There are three ways to access the scale's programming menu:

1. Keep the **MENU** key pressed while the scale is booting.
2. Press the **MENU** key in the selected operating procedure screen.
3. On self-service mode, press four times consecutively and alternatively between the lower left side and the lower right side of the keypad.

ARTICLES → Programming articles.

VENDORS → Cashier additions, removals and data.

ADVERTISING → Programming advertising images.

TABLES → Sections, Traceability, Recipes, Nutritional data, Barcode, Tares, Payment modes, VAT types, Currencies. Temporary Promotions and Loyalty Points.

LISTINGS → Item lists, sales, totals…

TOOLS → USB Loading/Downloading, Sending data to slaves, Operations with PC, Other Tools.

DISPLAY → Corporate image, User Display Configuration (Receipt Ops., Label Ops., PLUs, Sections and Vendors).

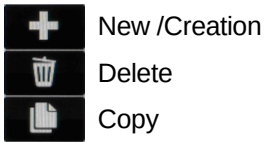
LABEL → Programming Label

RECEIPT → Programming Receipt

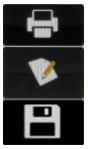
SETTINGS → PC Com. Settings, Keyboard Settings, Scanner Reading, Working Modes.

FAVOURITES → A selection of the most commonly used operating procedures

The function of the keys in programming mode are the following:



New /Creation
Delete
Copy



Print
Edit
Save

Exit

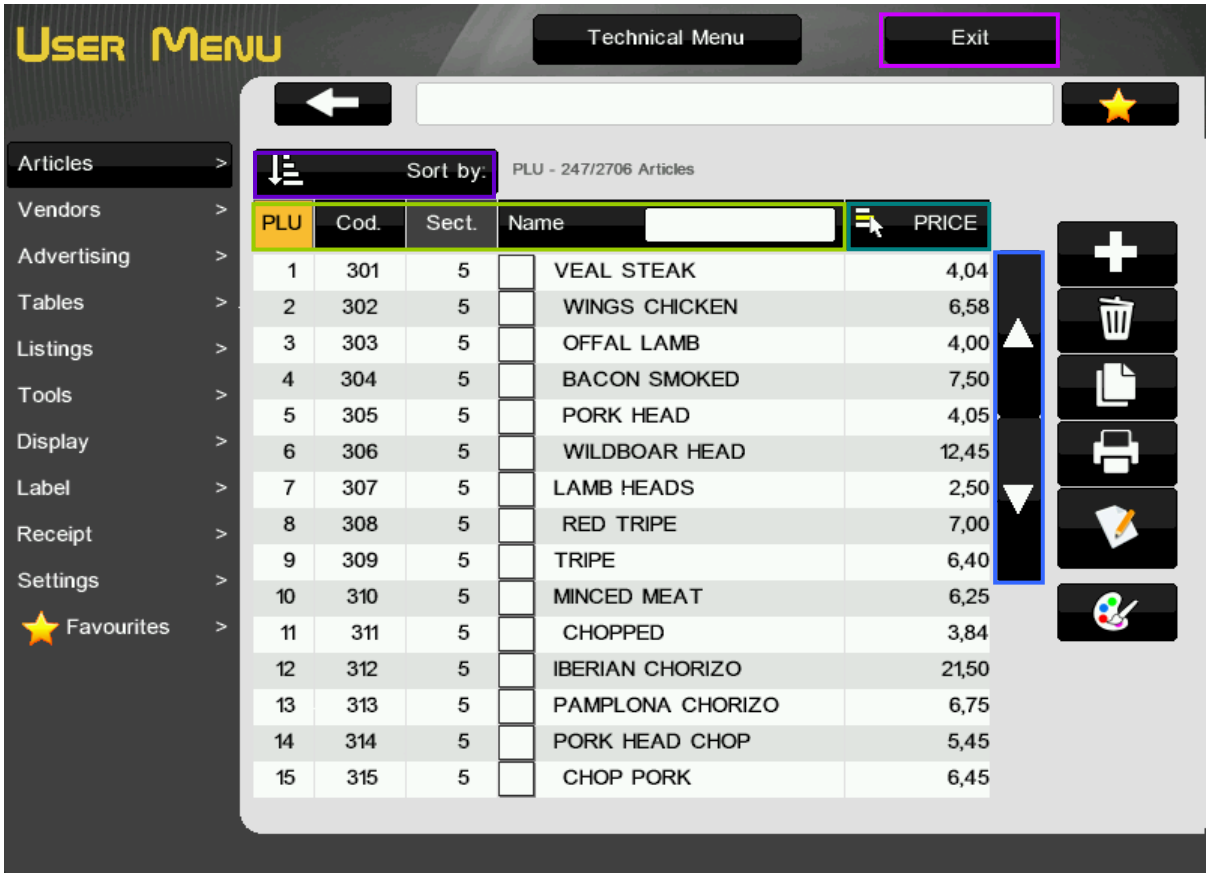
Exit programming and return to normal working mode.

Return to previous programming screen.

If we press this icon, the information about the possible values of the parameter will be shown.

3.1 ARTICLES

It is possible to program 10000 articles in the scale. Select the menu Articles to program them.
The scale will show the articles programmed and the function keys.



It is possible to arrange the articles by PLU, Code y Name by pressing on the selected key at the top of the list

Writing in the square next to Name is able to search articles by name.

By pressing on the key PRICE it is possible to show different fields of the article in this column: **Price, Type, VAT type, Tare, Label Format and Traceability Class**

Use the buttons ▲ and ▼ to move up and down in the articles list.

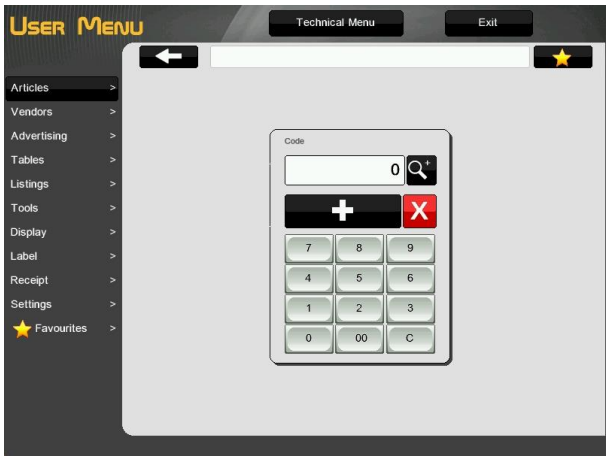
By pressing the key Sort by Sort by: it is possible to view the articles arranged by the selected field (Code, PLU or Name).

Press the key Exit to exit the User's menu and return to the working mode.

Close to the article name is showed the PLU key colour, if you want change this colour press on the key and select the colour.

3.1.1 New article

To program a new article press the key [+], the scale will show a window to enter the Code of the Article.

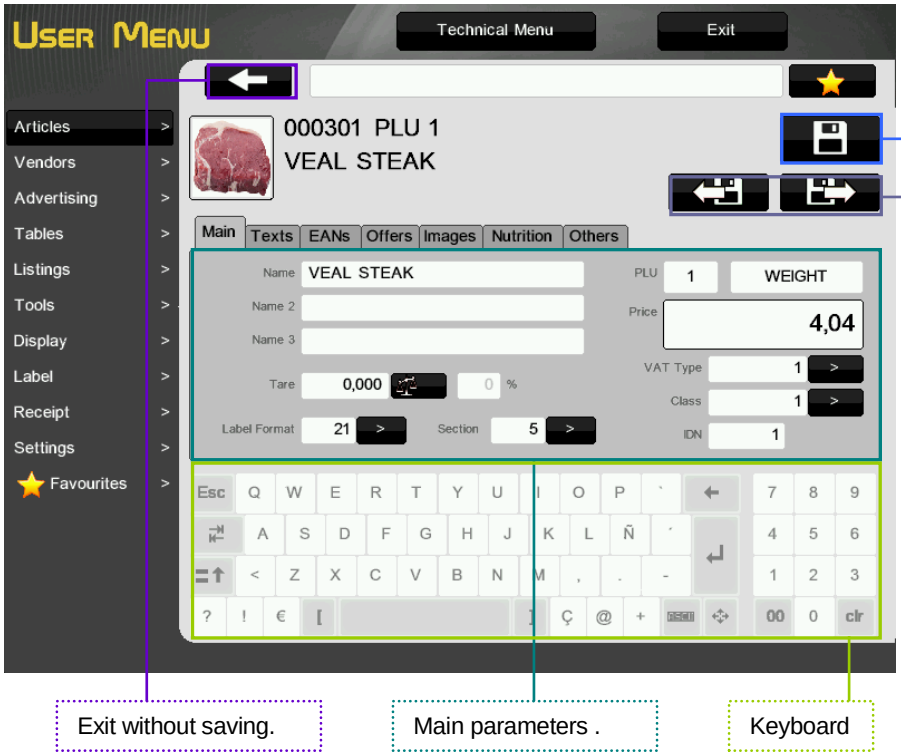


- Enter the article code in the window by means of the numeric keypad [0].
- By pressing [🔍+] the scale will show the first non-used code.
- Once the code has been entered, by pressing [+] the code will be assigned to the article and it will be possible to program the rest of the parameters of the article.
- To cancel the creation of the article press [X].

If the entered code corresponds to an existing article the scale will ask about the edition of the existing article

Then the scale will show the detailed article information, divided into six groups: Main, Texts, EANs, Offers, Images and Others.

3.1.1.1 Main



Save and exit.

Press this buttons to go to the next/previous article by code order. The current article will be saved with the changes we have done.

For the parameters that has the button [>], we can introduce the value in the conventional way or we can display a list with the possible options by pressing [>] and then select one of them.

Exit without saving.

Main parameters .

Keyboard

Name: Name of the article (max. 20 characters).

Name 2: Name 2 of the article (max. 20 characters).

Name 3: Name 3 of the article (max. 20 characters).

Tare: Tare value associated to the article.

There are two programming modes:

- Enter the value with the numeric keyboard
- Placing the weight to be tare don the plate and pressing .

Label Format: Format used to print the label of the product that is being edited. You can enter a value between 0 and 60* can be entered, with the following meanings:

- From **0** to **20**: predefined formats.
- From **21** to **60***: user-definable formats.

> The printing parameter GLOBAL LABEL FORMAT must be set to 0 in order to program the above (see ***paragraph 3.8.2.4 Label Format***).

Section: Code of the section (0 to 99) to which the article belongs.

PLU: Number of the direct key assigned to the article.

Type of Article: Change the value by pressing on the window.
The possible values are:

- **WEIGHT.** Type of article by default; the price per kilo will be programmed, and the amount will be the weight of the product multiplied by the price. The article must be weighed by the scales.
- **UNIT.** The amount is the price of the article. The weight and the unit price are not printed. The article does not have to be weighed.
- **FIXED WEIGHT.** The amount will be the product of the known weight of the article that has been entered when programming the FIXED WEIGHT field, multiplied by the price. The article will not be weighed, but the weight and price will both be printed.

  A FIXED WEIGHT type PLU will be shown on the screen as a WEIGHT type PLU, with the difference that instead of showing the tare on the bottom left side of the metrologic part of the screen, an icon of a lock will be shown next to the weight. This icon indicates that the weight has been fixed and that the weight placed on the plate is not taken into account.
- **REFUND.** The amount for this type of article will be discounted from the total sum, and the amount will be shown on the display as a negative value. This amount will also be printed on the receipt.
- **FROZEN:** The article must be weighed, but a percentage of the weight will be discounted from the gross weight, representing the tare. The percentage will have previously been programmed in the **Tare** field.
- **FIXED UNITARY WEIGHT**. The article's known weight is entered when programming in the FIXED WEIGHT field. The amount is also entered when programming in the Amount field. The price is calculated on the basis of the weight and amount entered. The article is not weighed, but the weight and price are.

  A FIXED UNITARY WEIGHT type PLU displays on the screen as a WEIGHING type PLU, except that, instead of the tare displaying on the lower left hand side of the metrological part of the display, a lock icon displays next to the weight, indicating that the weight is fixed and the weight placed on the pan is not taken into account.
- **MULTIPLIED UNIT.** The number of units of the article is entered when programming in the No. Units field. The amount is also entered when programming in the Amount field. The price is printed and is displayed with one more decimal point than the rest of types of article.

Price per kg. Enter the value of the Price/kg or Price/unit of the article. If this value is set to 0, the Price must be entered from the keypad during the sale.

VAT type: Enter the code corresponding to the 6 programmable VAT percentages

- 0: 0% (without VAT

- 1 a **5**: VAT percentages programmed in VAT Table (see paragraph ***3.4.8 Types of VAT***).

VAT for direct price articles is type 1.

Class. Traceability class number of the article

- Class = 0: Without Traceability

- Class ≠ 0: With Traceability. Select the traceability class.

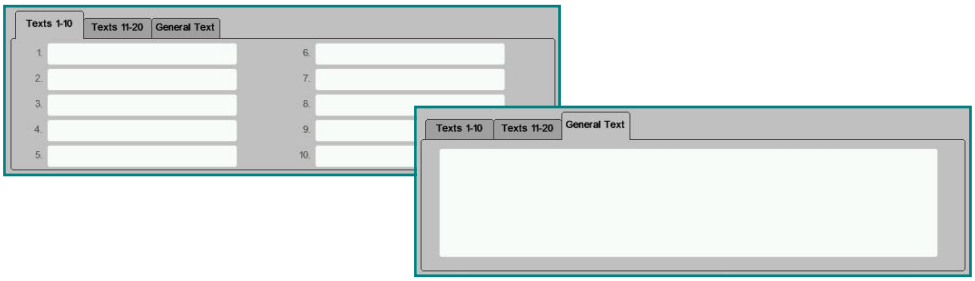
IDN. Identification Number, it is the number assigned to the traceability product from which the article is obtained. There are a maximum of 99 products programmable in the scale and they can have an IDN from 1 to 65535.

3.1.1.2 Texts

In this menu it is possible to program the texts of the article.

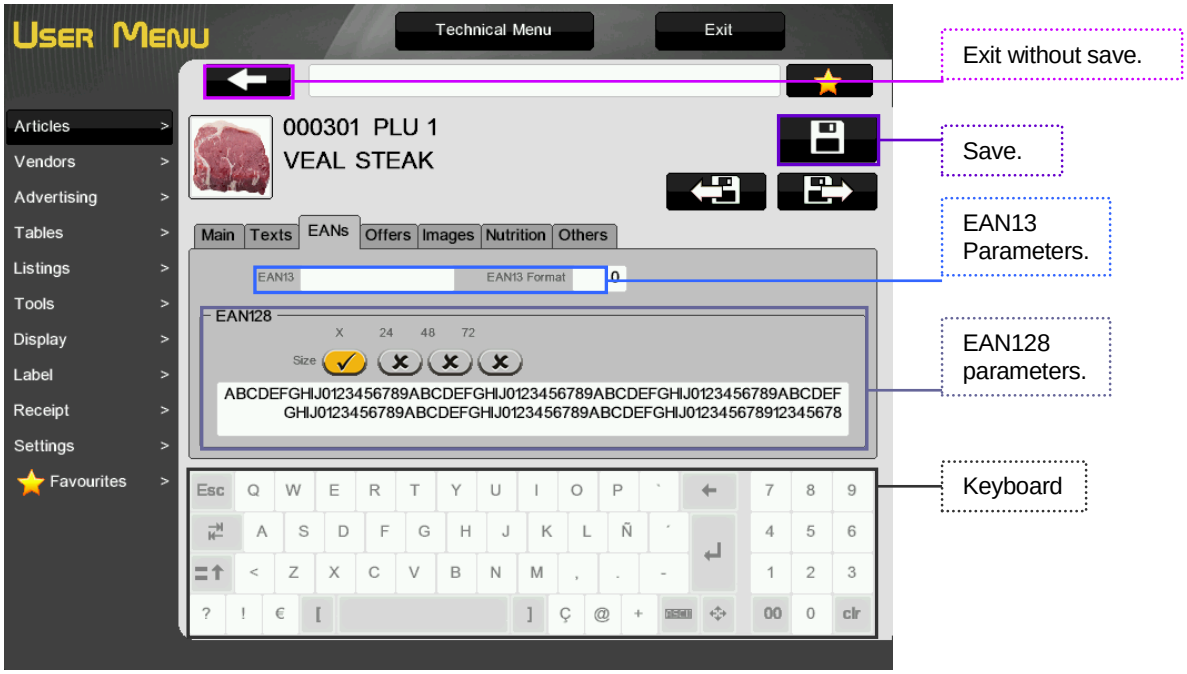
Text Lines: The articles have 20 text lines with 24 characters each.

General text: Text with 1024 characters used for ingredients or other information of the article.



3.1.1.3 EANs (Barcodes)

This menu allows to program the barcodes of the article



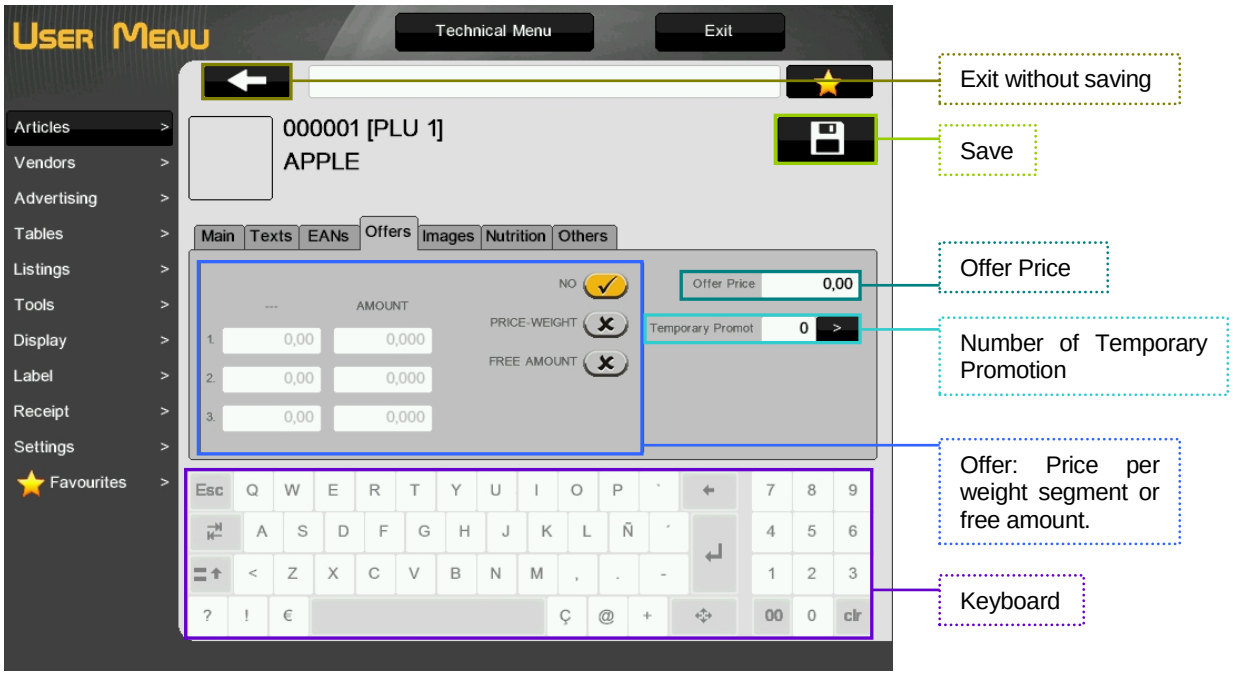
EAN13: EAN13 of the article (used to recall the article with a scanner or for printing in label).

EAN13 Format: Barcode format of the article selected from the 10 programmable barcodes of the scale.

The 10 programmable barcodes can be programmed by the user. See paragraph ***3.4.5 Programmable EANs***.

Barcode EAN128: The EAN 128 barcode and its size (X, 24, 48 or 72) are defined in this parameter. Depending on the size of the EAN selected, the programming of texts 8, 9 and 10 will be blocked.

3.1.1.4 Offers



Offer Price: This is the offer Price of the article which will be enabled :

1.-When the key Offer Price SPECIAL PRICE is pressed.

2.- When the Temporary offer to which the article is linked is active.

Offer Price per weight Segment/Free Amount: The possible options are:

- **NO:** No special offers
- **Price per weight segments or units segments:**

  This parameter permits different prices to be defined according to the quantity of product that the customer purchases.

  There are three segments, for every segment, the price is requested along with the weight above which this offer is applied.

  Therefore, if the weight is less than the first fraction, the price defined in the PRICE field will be applied. If a greater quantity of product is purchased, the price of the fraction of the corresponding weight will be applied.

- Free Amount:

If you select Free amount, it will program the quantity from which you offer another amount free of charge. There are three amount/free amount programmable fields.

For FIXED UNITARY WEIGHT AND MULTIPLIED UNIT type articles, this type of offer is blocked.

Number of Temporary Promotion: Enter the value of the Temporary Promotion assigned to the article.

The offers programmed in the article will be enabled in the time period programmed in the temporary promotion assigned to the article. See paragraph ***3.4.10 Temporary Promotions***.

If there is a temporal offer selected (a number different to 0), the offers Price – Weight or Free Amount there will automatically apply in the timeframe set in the temporary offer.

Selecting the value '0', does not apply any temporary promotion. If you want to use the offer price you have to press the button .

The Price-Weight and Quantity free offers are applied whenever there is no temporary offer selected and the

key is not on the working screen. With this key on the working screen, the offer is applied by segment if

is enabled. Once the sale has been made, it is disabled again.

3.1.1.5 Images

This menu allows to program the images of the article

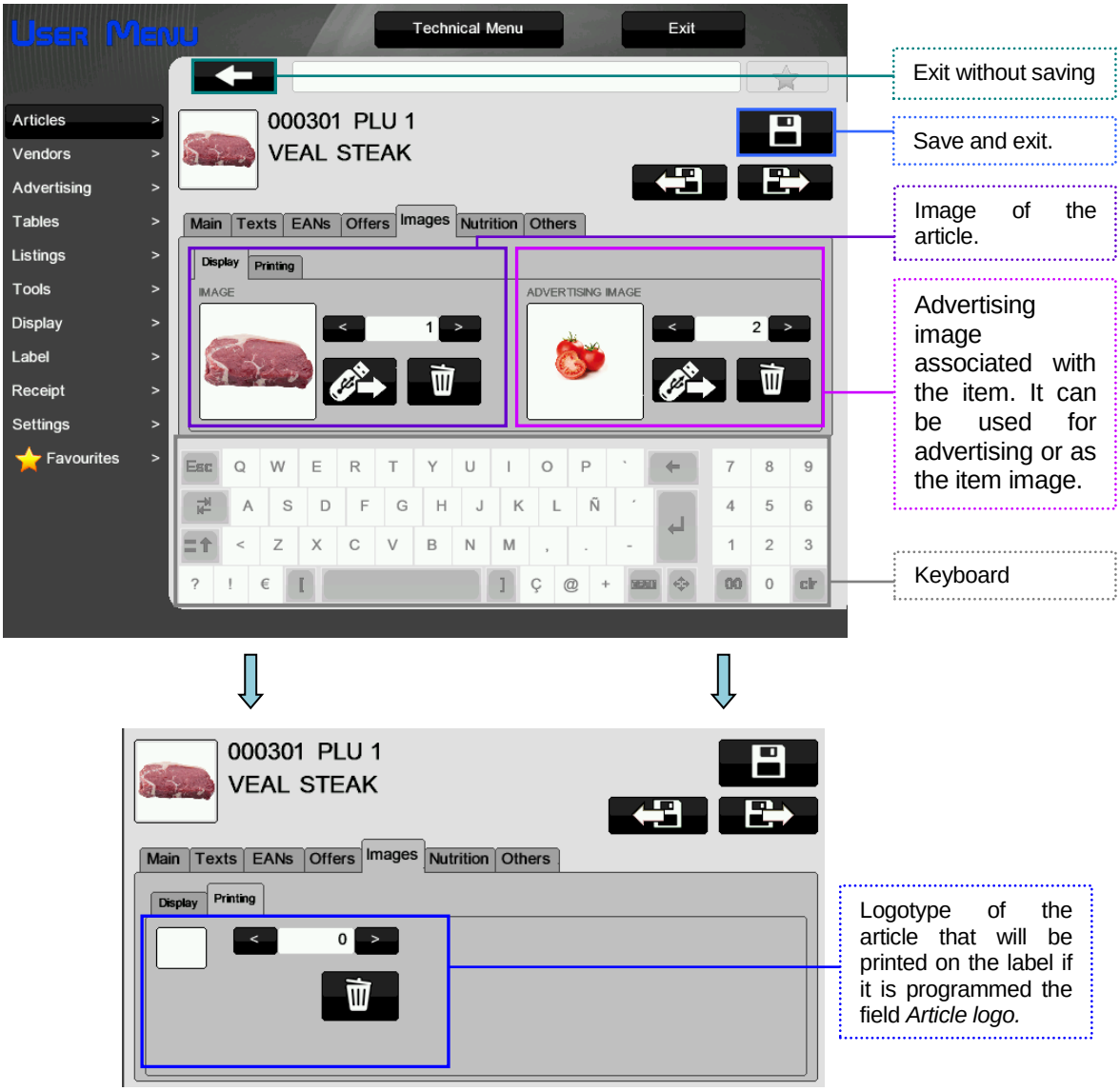


Image: Color image associated to the article (see ***paragraph 6.1.1 Load Article Images***).

Advertising image: It is the advertising image associated with the item. This setting is only available if "Use advertising images" has been previously enabled in "Technical Menu/ Application/ Basic setup".

Printing: Logotype number associated to the article.

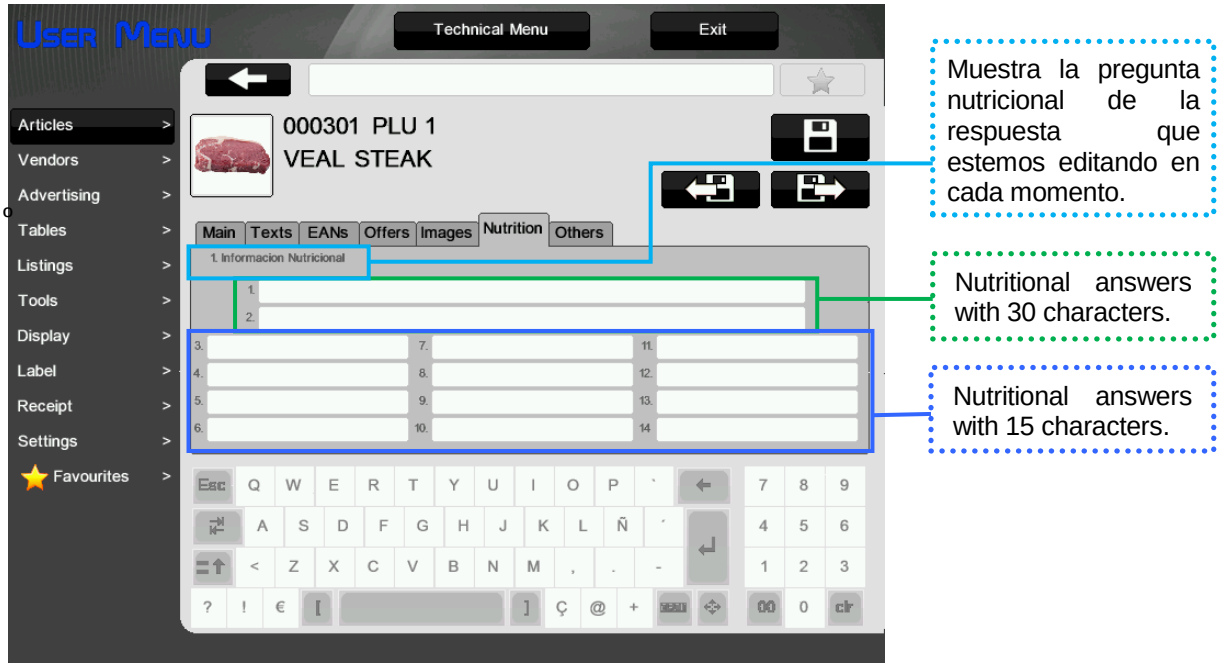
Selection of the image of the article. Enter the value with the keyboard or increase or decrease it by pressing the arrows.

Cancel the association of the image to the article

It allows you to load the images with a USB. One image can be loaded. For an image to be loaded, it must be an 8-bit image without compression using Run-Length Encoding. For further information, consult the ***Loading images from a USB*** *appendix.*

3.1.1.6 Nutricionales

In this section we are able to answer the nutritional questions that we have programmed. To change these questions go to **User menu → Tables → Nutrition**. (see section 3.4.4)



3.1.1.7 Others

Recipe: Not available in version 106P.

Alter price: This parameter allows to modify: name, PLU and Price of the article in normal working mode (see ***paragraph 2.8.1.9 Quick Price Change of an article***).

Stock alert: If you have configured stock control and enabled the alerts (see section 3.10.4.18 Stock Management) this setting will be configurable. Use its selection to enable the alerts for this product. Otherwise it will not be taken into account.

Cost price: This field is used in the lists of profit margins of the product. The purchase price of the product is entered in this section.

Expiration Date: This parameter allows to program the best before date of the article which will printed in the labels according to the value programmed in parameter Best Before, see paragraph ***3.10.4.7 Best Before***. It can be programmed in three different ways:

- Exact date. Date in format ddmmyy (day month year) .
- Number of days from the current date .
- Number of hours from the current time .

Press to pass from one format to another

Extra Date: This is an Extra Date (i.e. Use by date). It is programmed in the same way as the expiration date.

Freezing date: This is the product freezing date. It is programmed in the same way as the expiration date.

Label Format 2: This parameter select the format for the second label of this product.

3.1.2 Edit

It is possible to edit the data of previously programmed articles. To edit an article:

4. Select the article to be edit. It will be marked
5. Press .
6. The scale will show an edition menu equivalent to the menu of article creation and the edition will be done in the same way as the articles creation.

3.1.3 CoCopy */ Paste*

To copy an article the procedure is:

1. Select the existing article to be copied. It will be marked.
2. Press . The article will be marked in red
3. Select the new position to paste the article
4. Press . If the new position is empty the scale will ask for a code for the new article. In case of having an article in this position, the scale will ask about the replacement of the article. If we accept, the new article will get the code of the replaced article.

   If we do not select a position and we want to copy the article in a new position, press instead of .

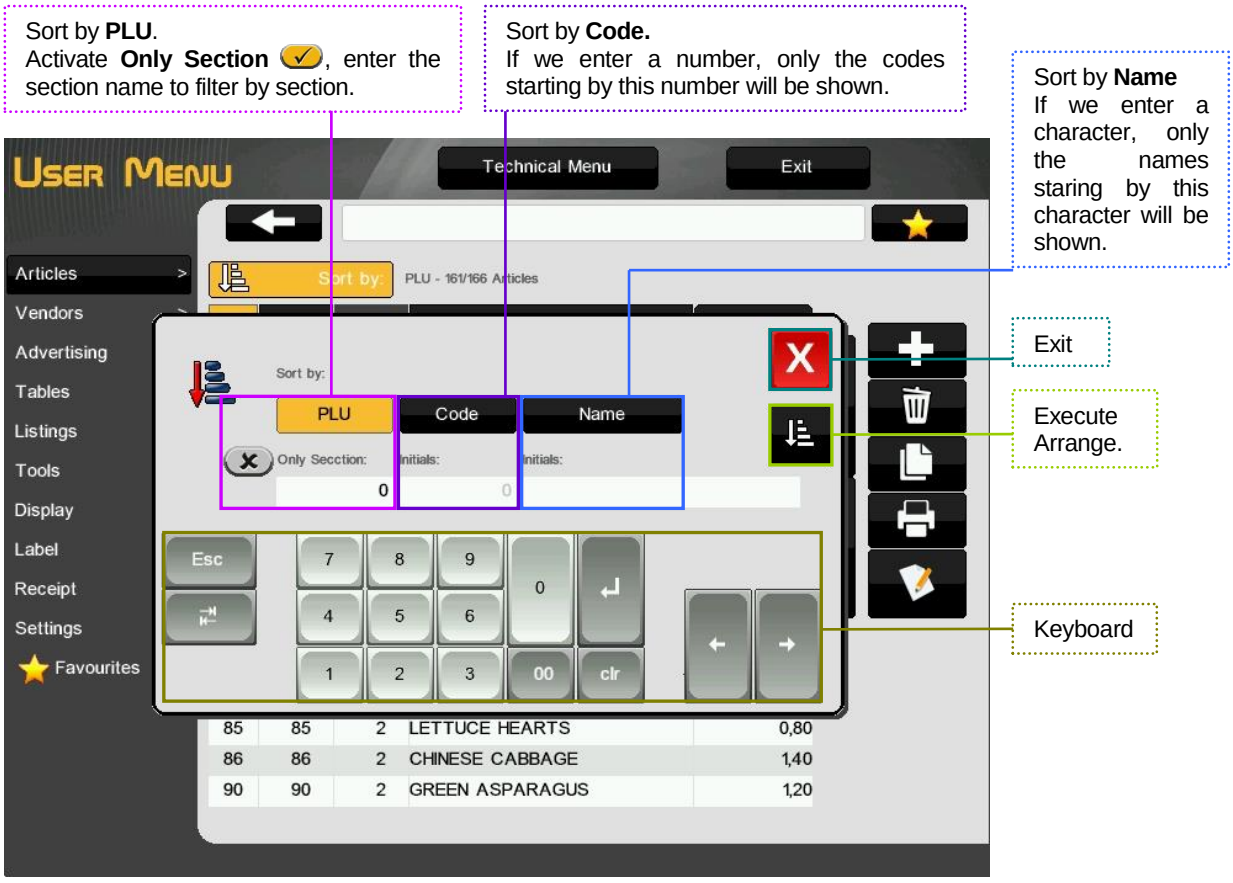
3.1.4 Delete

To delete an article:

1. Select the existing article to be deleted. It will be marked.
2. Press . The article will be deleted after asking for confirmation.

3.1.5 Sort by

By pressing the key Sort by: it is possible to show the articles arranged by PLU Number (filtered by section), code (filtered by number) or by name (alphabetically filtered).



SORT BY PLU: Just sort by PLU PLU ***(1)*** or sort by PLU activating **Only Section** and entering a numeric value (i.e. 1) ***(2)***. Press the key to sort or to cancel.

(1)

PLU	Cod.	Sect.	Name	PRICE
1	301	5	VEAL STEAK	4,04
2	302	5	WINGS CHICKEN	6,58
3	303	5	OFFAL LAMB	4,00
4	304	5	BACON SMOKED	7,50
5	305	5	PORK HEAD	4,05
6	306	5	WILDBOAR HEAD	12,45
7	307	5	LAMB HEADS	2,50
8	308	5	RED TRIPE	7,00
9	309	5	TRIPE	6,40
10	310	5	MINCED MEAT	6,25
11	311	5	CHOPPED	3,84
12	312	5	IBERIAN CHORIZO	21,50
13	313	5	PAMPLONA CHORIZO	6,75
14	314	5	PORK HEAD CHOP	5,45
15	315	5	CHOP PORK	6,45

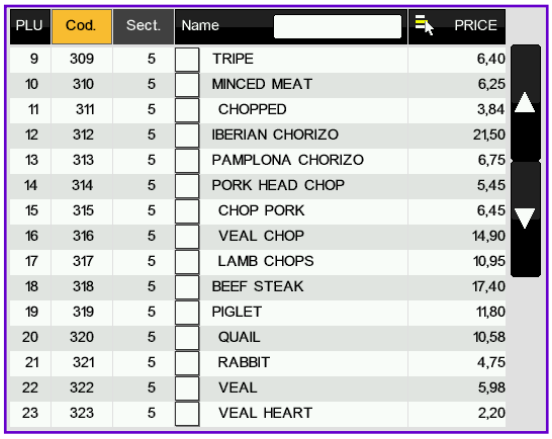
(2)

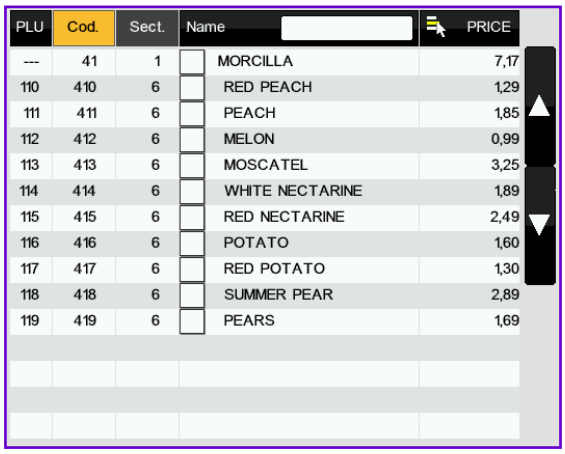
PLU	Cod.	Sect.	Name	PRICE
69	369	6	GARLIC	9,20
70	370	6	RED GARLIC	6,20
71	371	6	WHITE BEANS	2,50
72	372	6	CARILLA BEANS	11,44
73	373	6	RED BEANS	2,48
74	374	6	TOLOSANA BEAN	12,90
75	375	6	WHITE CELERY	2,45
76	376	6	GREEN CELERY	2,30
77	377	6	CABBAGE	1,46
78	378	6	BOLETUS EDULIS	29,90
79	379	6	BORAGE	1,15
80	380	6	FIGS	4,99
81	381	6	SWEET ONION	4,38
82	382	6	PLUM PASSED	6,40
83	383	6	GREEN PLUM	3,70

SORT BY CODE: Just sort by Code [Code] ***(1)*** or sort by code and apply an additional filter by entering a numeric value in initials (i.e. 8) ***(2)***. To start the search, press the key [↓≡].Press [X] to cancel.

(2)

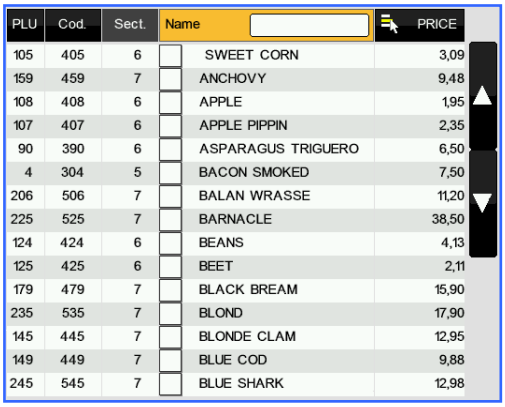
(1)



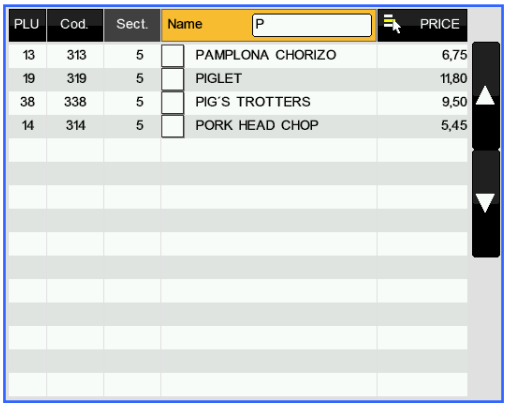


SORT BY NAME: By pressing the key [Name] the keyboard is shown. Just sort by name ***(1)*** or sort by name and enter an additional filter (i.e. G) ***(2)***. A wildcard character can be used (*), instead of a letter or a group of letters.Press the key [↓≡] to sort. Press [X] to cancel.

(1)



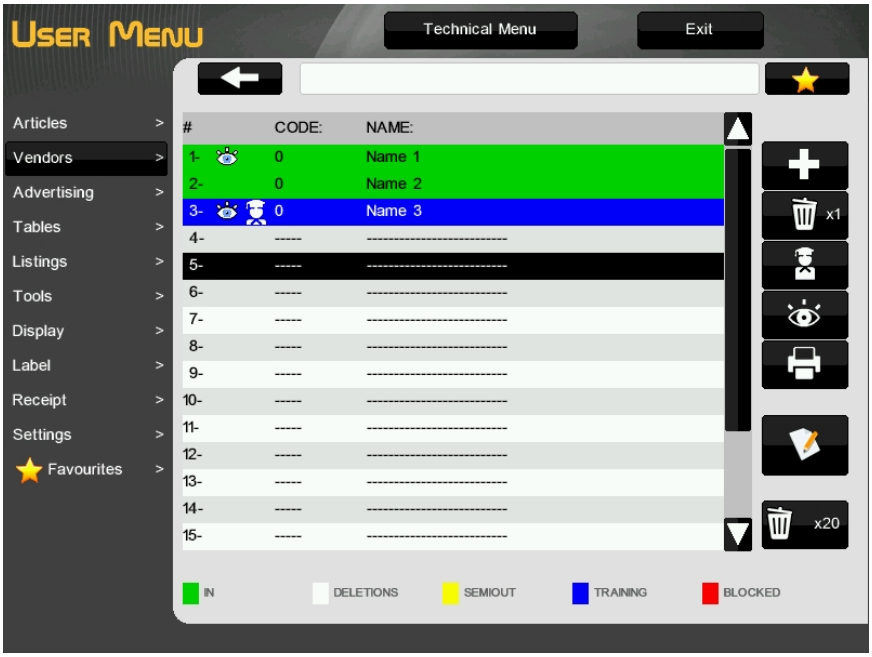
(2)



3.2 VENDORS

The scale allows to program a maximum of 20 vendors.

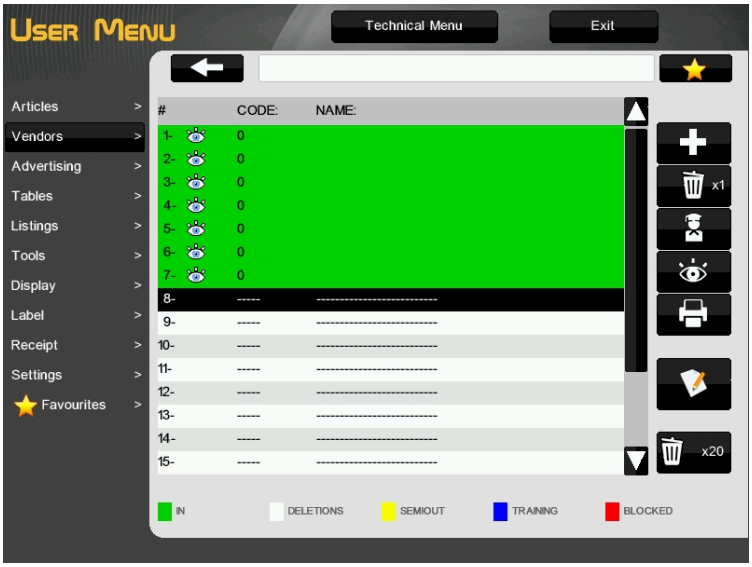
> This programming can only be done in a Master Scale.



3.2.1 Quick Vendors Creation

This option allows to program a vendor without editing the vendor's parameters.
To edit the parameters see ***paragraph 3.2.2 Vendors edition***.

1. Select the vendor number.
2. Press

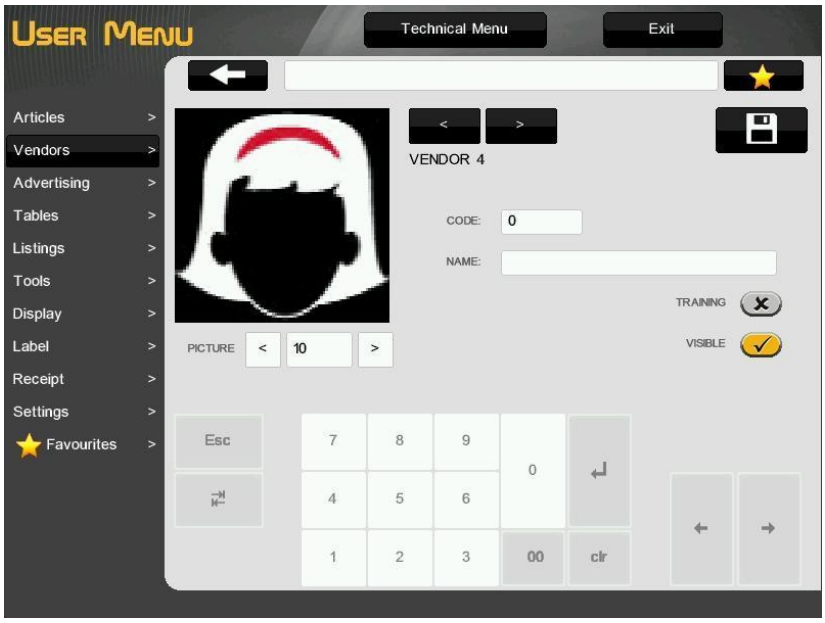


3.2.2 Edit

This option allows to program vendors and edit all the parameters.

The procedure is:

1. Select the vendor number (it must be empty).
2. Press . The scale will show the vendor's edition parameters



Code: It is the 5 digits code associated to the vendor.

Name: Name of the vendor with a maximum of 26 characters

Training: Enables or disables the training mode for the vendor (see ***3.2.5 Training Mode***)

Visible: Allows to show or hide the vendor key in the normal operation mode.

Picture: Image of the vendor

> To modify a vendor, it must previously be erased and then edited with the new data.

3.2.3 Delete

To delete a vendor from a memory key, do the following:

1. Select the vendor to be deleted.
2. Press

3.2.4 Delete all vendors

To delete all the vendors simultaneously press the key .

3.2.5 Training Mode

The scale **D-900** has a special working mode for training of new vendors.

In this situation, the sales are not accumulated to the totals and the receipts and labels have printed a line with the text "*** TRAINING MODE ***".

To program a vendor in training mode:

1. Select the vendor key (if the vendor is not programmed we must program it before, see ***sect. 3.2.1 Quick vendors creation***).
2. Select training mode by pressing .
3. The icon will be shown closet o the vendor code in the list and it will be remarked in blue color.

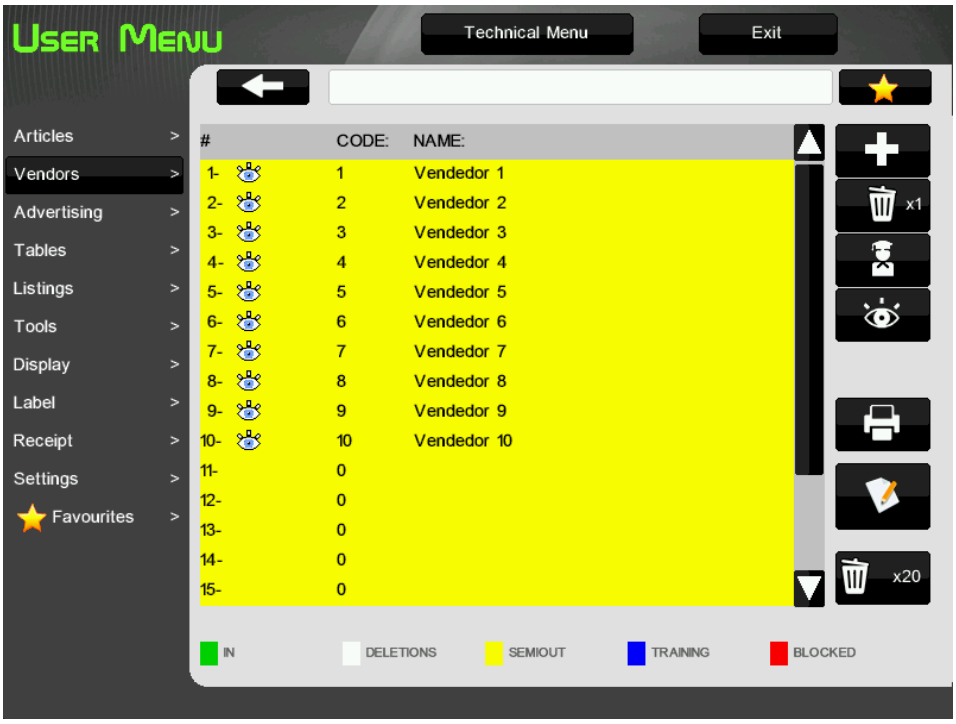
3.2.6 Visibility

It is possible to hide or show a vendor key in the display. To show a vendor in the display, select the vendor and press the key . The icon will be shown close to the vendor's code to indicate that the vendor is visible.

3.2.7 Cashiers on semiout

Cashiers may not yet have been added. This situation may arise when the cashier removal setting (consult Technical Manual) is set at no.

Cashiers who are as yet not added will automatically be added when a sale is made by them. While they are in the not yet added status, the cashier name or code can also be modified.

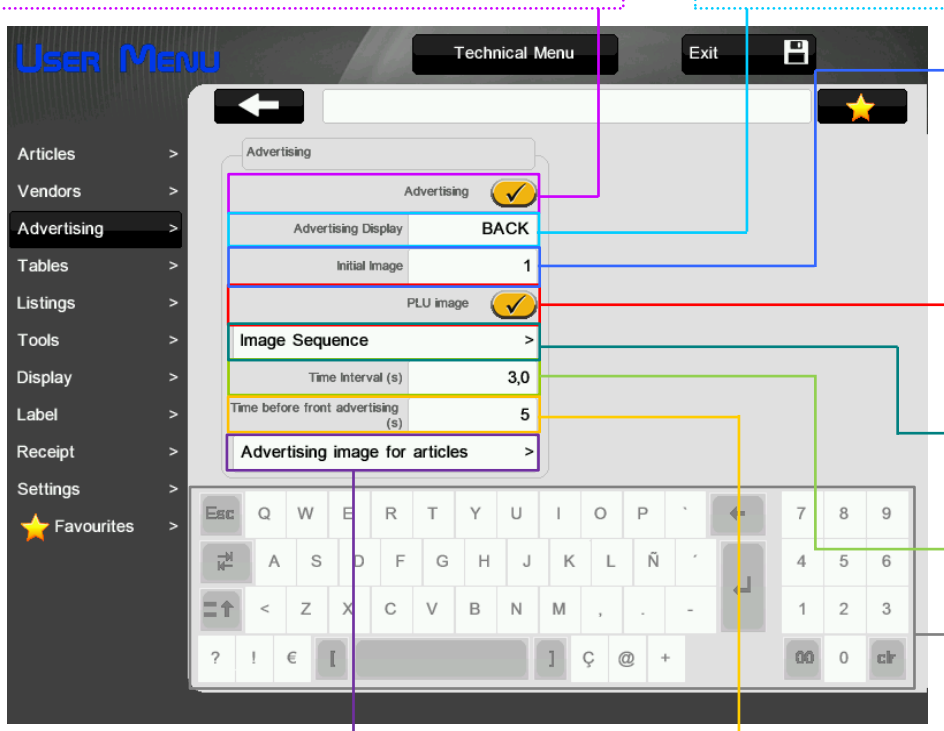


3.3 ADVERTISING

The **D-900** scales allow to show advertising images in the customer's display.
According to the value of the parameter Advertising, it is possible to enable or disable the advertising.

Advertising:
- With advertising images.
- Without advertising images.

You could select in which display the advertising will be shown. It may be vendor, customer or both.



Initial image of the advertising sequence.

If this option is enabled, the image of the product selected is shown on the rear display. Otherwise, only the sequence of images programmed is displayed.

Programmed sequence of images that is shown on the display/s selected for advertising.

Time to display every advertising image.

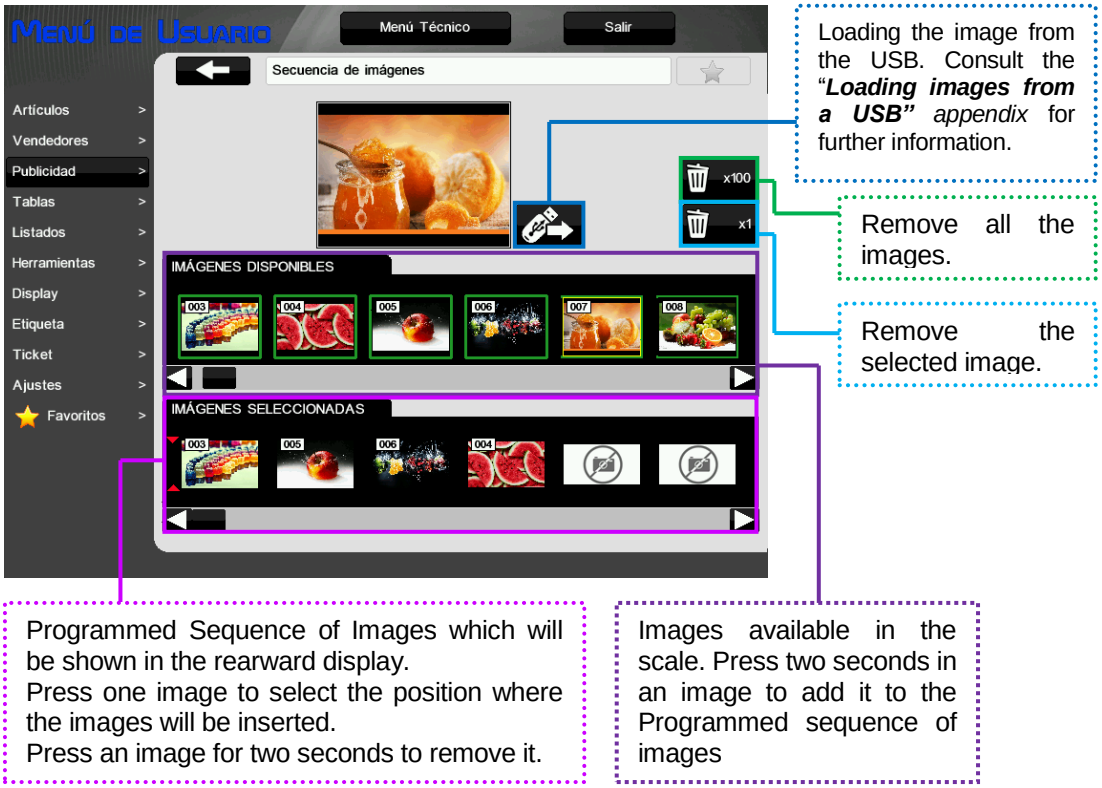
Keyboard.

Use this setting to select the display on which you want to see the advertising image associated with the item (if it has one).

It sets the down time before advertising is shown on the front display.

3.3.1 Advertising sequence

The advertising images available can be viewed on the upper row. As you can see, they are framed in green. This box has two thickness measurements, a thin one, for images that are not added to the sequence of images and another thicker one for the images added to the sequence of images.



If the scale is configured as slave, the button

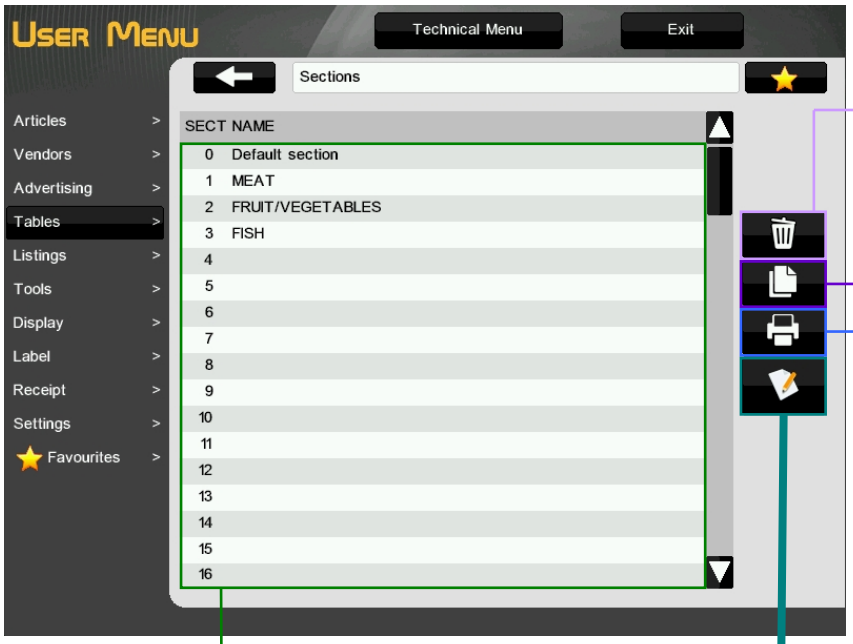
will be shown on the *Advertising* menu. This button allows to use the same advertising sequence that is configured on the master scale. This way we can program the advertising only in the master scale and use it in all slave scales we want without having to configure them one by one.

To load images in the scale see paragraph ***6.1.2 Loading of Advertising Images***

3.4 TABLES

3.4.1 Sections

For every one of the 100 programmable sections in the scale, it is possible to program: Name, Image and associated barcode format (EAN13 and EAN128).



Delete.

Copy.

Print the sections list.

Press in one section to select it.It will be marked in black.

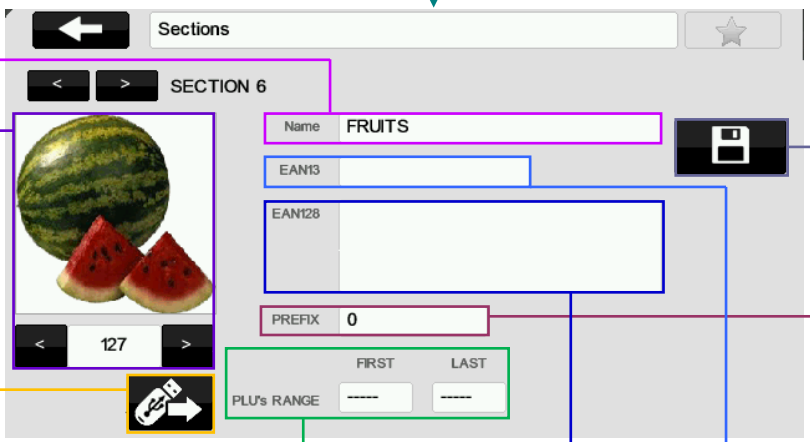
Edit the selected section.

Save.

Name of the Section. Maximum 20 characters.

Image associated to the section.
Press < or > to change.

It allows you to load the image from a USB. Consult "*Loading images from a USB appendix* for further information.



On receiving items via communications, it allows you to assign the section to the items within the range laid down. Those not within the range are assigned section 0. To do so:
1 – Enable the *PLU Range by section* setting (Technical Menu → Application →Basic setup →Other Settings 4/4).
2 – Set the PLU range.
3 – Receive the items via communications.

Code **EAN-128** associated to the section.

EAN-13 barcode associated to the section (see ***table 3-1***).

In ticket or label mode, it is possible to enable the option for non entering the digits of the section prefix in the code of the article. To do it:
1 – Enable the parameter *Section prefix* (Technical menu → Application → Basic Settings → Other Settings).
2 – Enter the section prefix at the start of the article's code
3 – The parameter *Code Numbers* (User Menu → Settings → Working Modes) must be equal to the number of digits of the article´s code without considering the digits of the section prefix..

The section EAN13 format must be programmed by using the following substitution letters

Code	DESCRIPTION	Code	DESCRIPTION	Code	DESCRIPTION
A	Group Number	**I**	Type of VAT	**W**	Lable format number
B	Customer Number	**K**	Section	**X**	Price (on scanner)
C	Article Code	**M**	Equipment number	**Y**	Section currency amount
D	Employee code	**N**	Ticket number	**d**	Number of decimal of the weight
E	Total amount of receipt	**Q**	Control check	**w**	Units of the weight
F	Sign of the amount	**R**	Weight with 2 decimals	**y**	Amount divided by 10
G	Number of articles	**T**	Tare	**z**	Amount divided by 100
H	Weight	**V**	Animal number of the transaction		

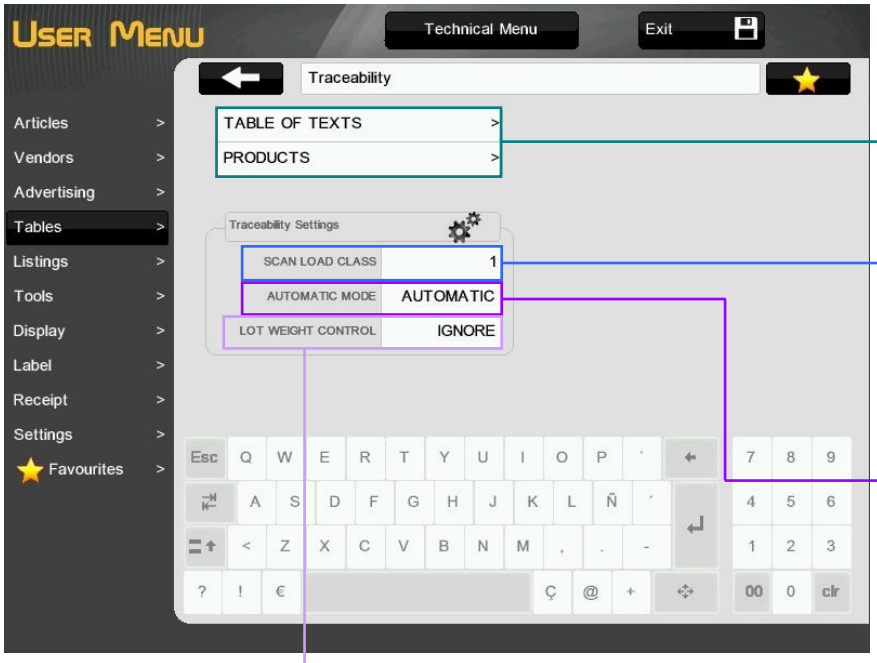
Table 3-1

3.4.2 Traceability

D-900 scales allow to program Generic Traceability, that is, it is possible to define up to 10 classes of traceability (beef, fish, fruits, etc...) to which belong the traceability products from which the articles are obtained.

This feature allows to print in receipts or labels the data of the product from which the article in use comes from.

Every traceability class has defined a list of texts common for all the products of the class (i.e. for beef these texts are: *Born In*, *Raised In*, *Slaughtered In*).



Programming of Text Tables and Traceability Products

Class asigned to the products created by Reading of EAN 128 barcode (see ***paragraph. 3.10.3 Scanner Reading***).

Selection of manual or Automatic Traceability Product Selection Operative (see. ***2.8 Working Modes)***

Weight Control of the Traceability Product:
IGNORE: The escale does not control the weight of the Traceability Product
NOTICE: After recording a sale with traceability, the addition of weights of all the sales corresponding to the product is bigger than the product weight, (see***. 3.4.2.3 Product Programming***) the scale will show a warning message
DENY: Trying to memorise a sale with traceability, if the addition of weights of all the sales corresponding to the product is bigger than the product weight, (see***. 3.4.2.3 Product Programming***) the scale will not accept the sale.

Every traceability class has 20 texts of Traceability (Questions)

The answers to the Traceability Questions are programmed on every individual product.

The programming to be done is the following:

3.4.2.1 Define the class of the PLU

To program this PLUs fields go to Articles → New article/Edit article, *Main*.

Class. Traceability class number of the article
- **Class = 0**: Without Traceability
- **Class ≠ 0**: With Traceability. Select the traceability class.

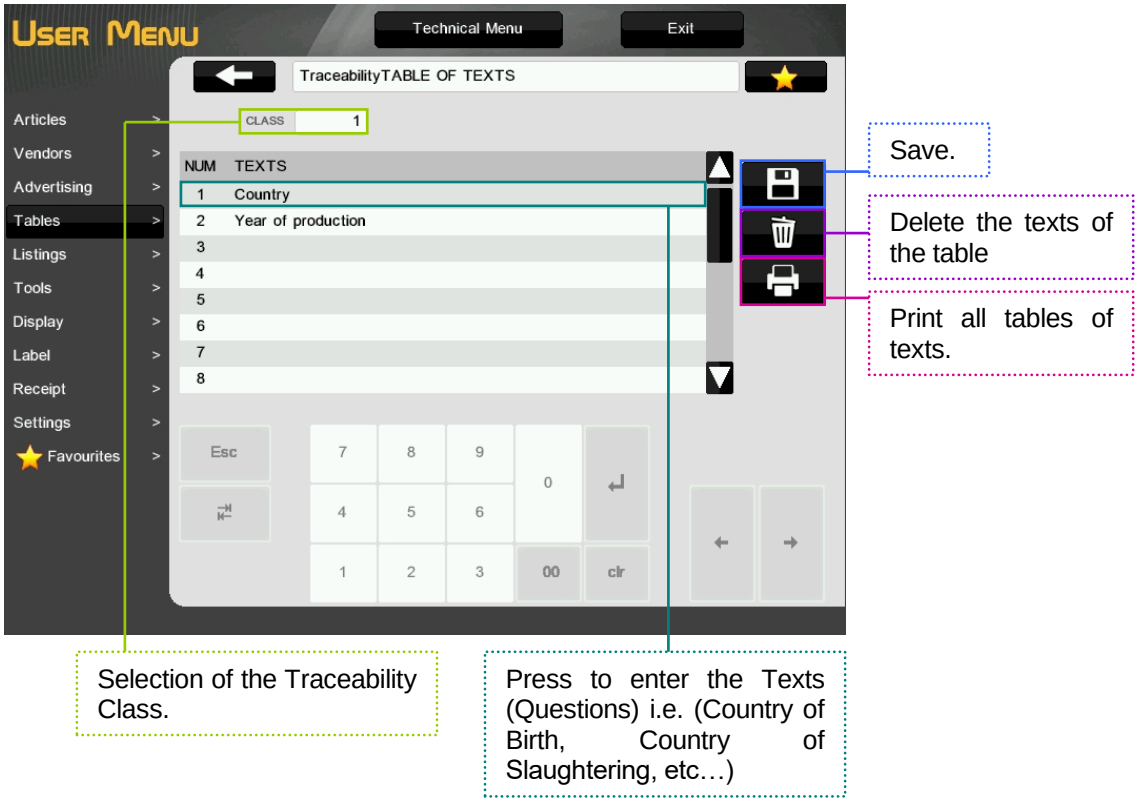
We choose traceability class 1 for example.

IDN. Identification Number, it is the number assigned to the traceability product from which the article is obtained. There are a maximum of 99 products programmable in the scale and they can have an IDN from 1 to 65535.

We choose 2 for example.

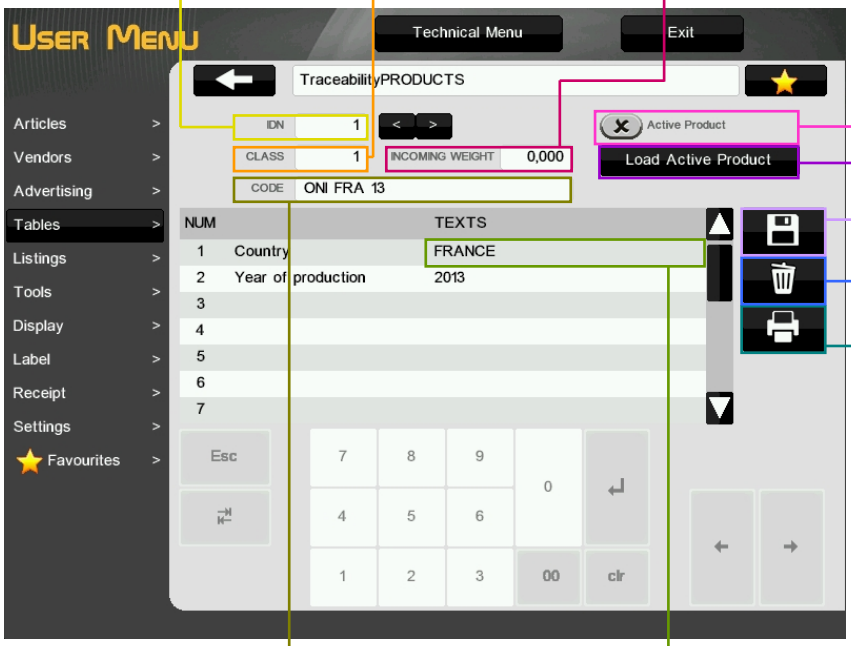
3.4.2.2 Programming of the Table of Texts

To program the table of texts select menu Tables → Traceability → Table of texts. The scale will show:



3.4.2.3 Product programming

To program a product, select Tables → Traceability→ Products. The scale will show the following



Select the Product Number to be defined.

Class of the product. Once selected, the Texts of the Clase will be shown.

Weight of the product.

Press to activate the product as Active Product for Automatic Mode (see paragraph. ***3.10.4.12 Automatic Mode***).

If the is a product set as active, press here to load it.

Save.

Delete.

Print the product texts.

Code of the Product , (i.e Eartag for beef Traceability, Lot Number for Fish traceability,etc…)

Programming of the product texts (answers to the traceability questions of the class).

3.4.3 Recipes

Not available in version 106P.

3.4.4 Nutrition

A total of 14 nutrition questions have been defined.

1. Nutritional information.
2. Energy content.
3. Fats.
4. Saturated fatty acids.
5. Carbohydrates.
6. Sugars.
7. Proteins.
8. Salt.
9. Food fibre.
10. Vitamin A.
11. Vitamin C.
12. Calcium.
13. Iron.
14. Vitamin.

Each question has 40 characters and can be edited directly by the user in this section of the menu.
These questions are global for all the products and have associated answers in each of the item's nutrition text.

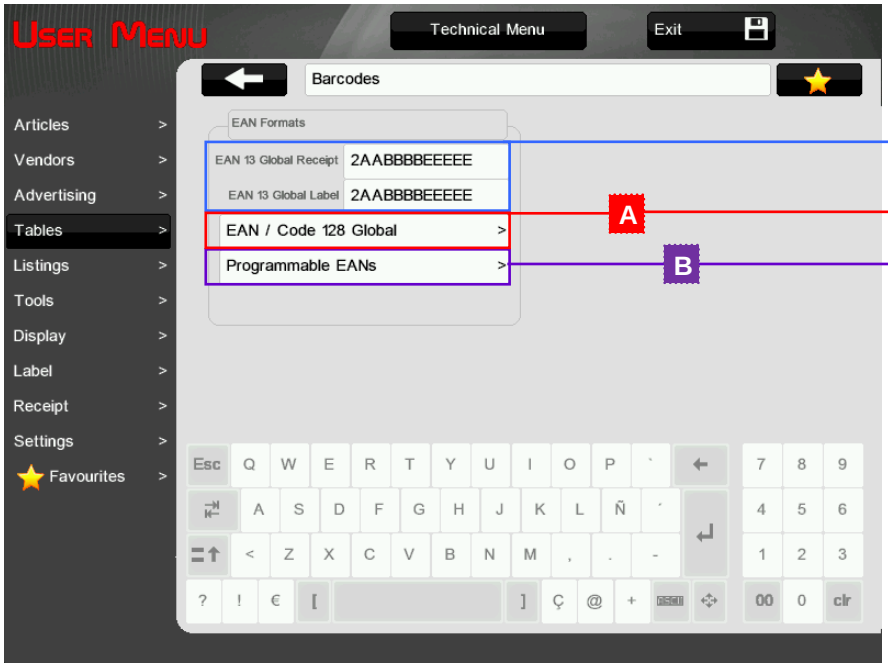
Nutritional questions. To edit a question click over it

3.4.5 Barcodes

This is the menu to program the barcodes: Global EAN13 (receipt and label) and Global EAN128 and the programmable EANs.

When the user selects Section **EAN** or **Article EAN** and these barcodes are not programmed, the Global EAN will be printed. If the Global EAN is not programmed, the scale will not print any barcode.

> To print EAN/CODE 128 in label, the filed is number 54. It is possible to have in the same label two barcodes: EAN/CODE 128 and EAN13.

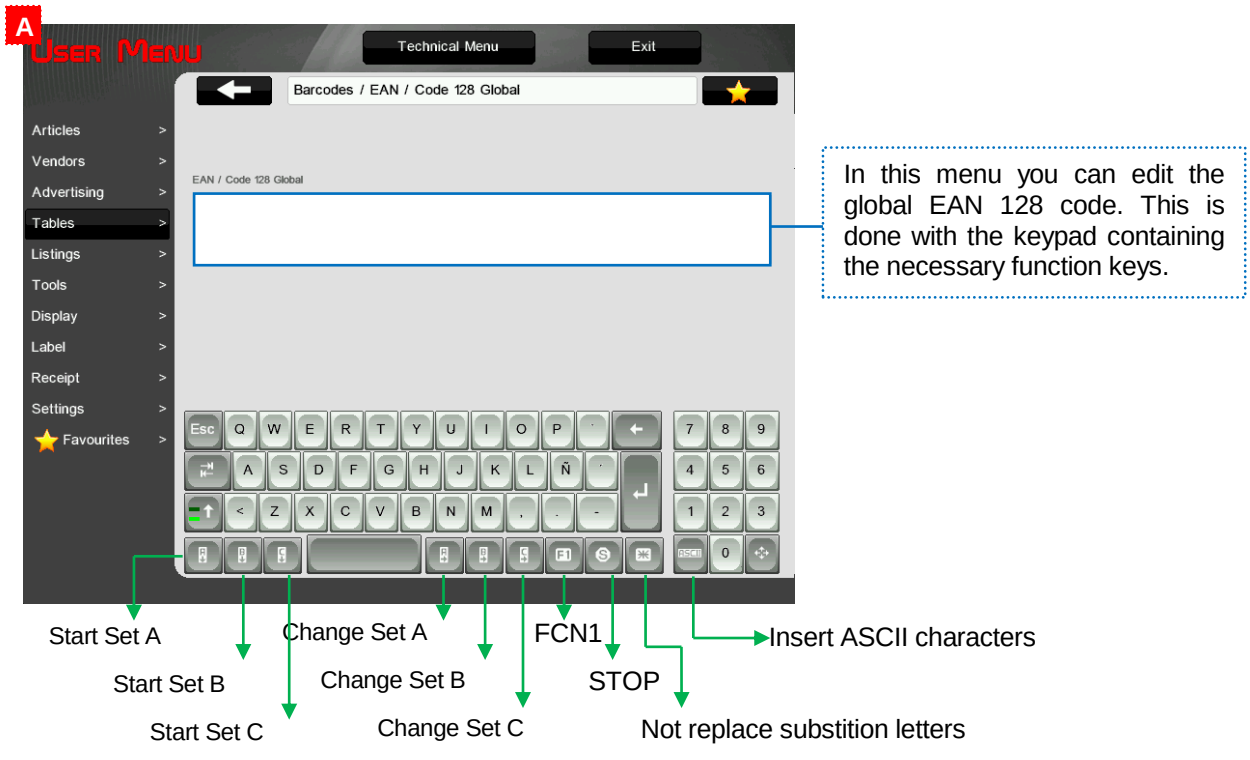


Global EAN Barcodes.

Global Ean/Code 128

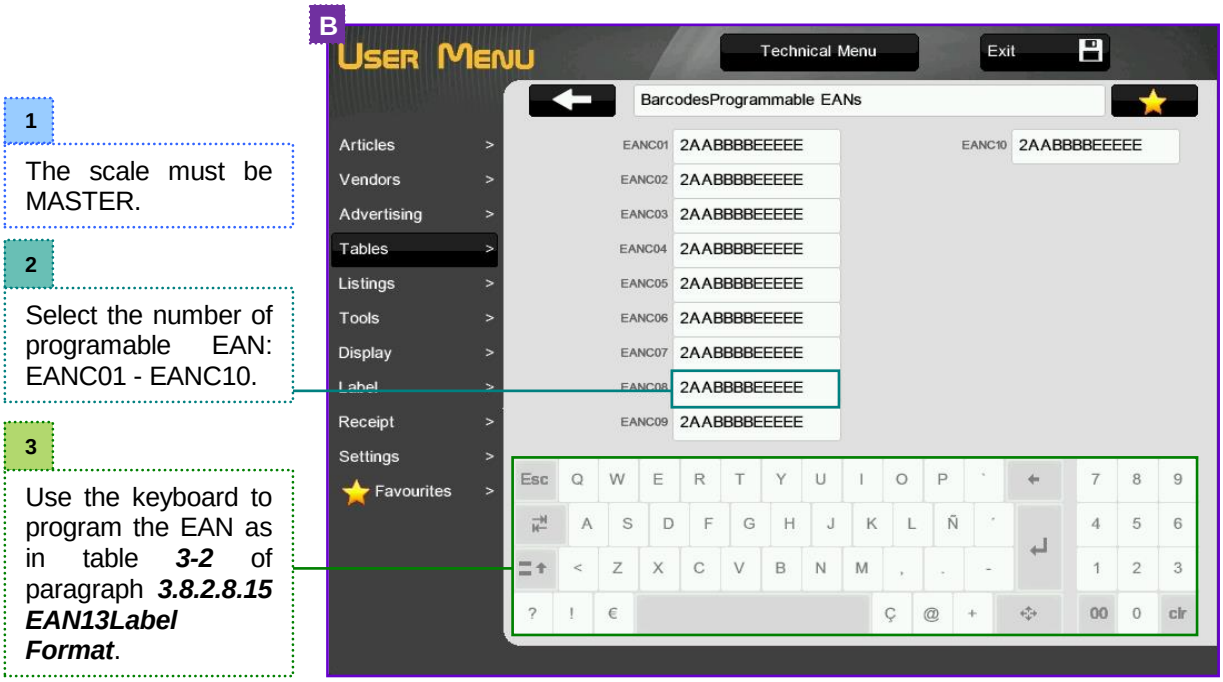
Programmable EANs. The field EAN Format of the article referes to these barcodes (see paragraph ***3.1 Articles***).

3.4.5.1 Ean/code 128 Global



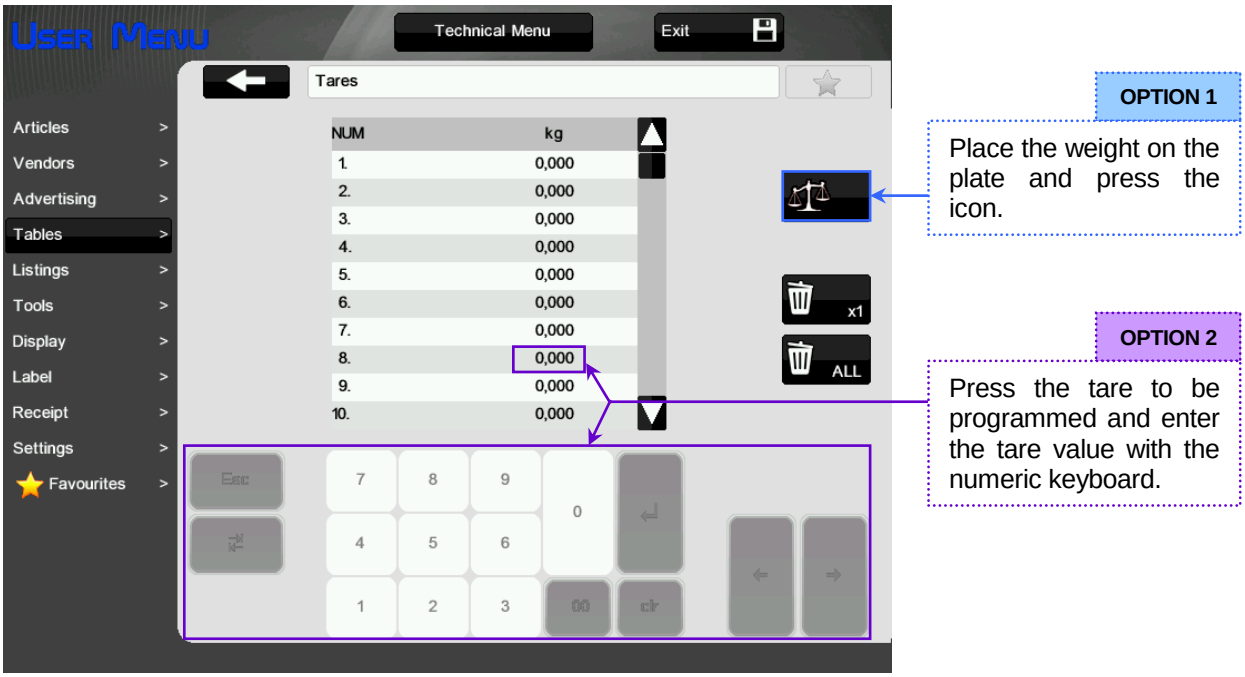
In this menu you can edit the global EAN 128 code. This is done with the keypad containing the necessary function keys.

3.4.5.2 Programable EANs



3.4.6 Tares

It is possible to program 5 Preset tares. There are two different ways for programming the tares

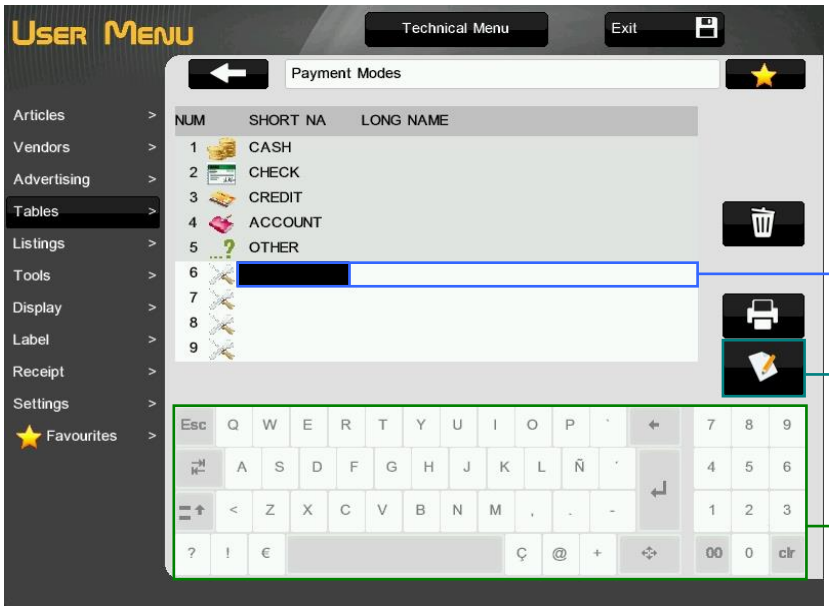


3.4.7 Payment Modes

The scale has 9 payment modes, 5 of them are programmed and 4 of them are programmable.

Every payment mode has a short description of 8 characters and a long description of 27 characters.

To program the names of the programmable payment modes:



1 Select the field to be edited: short description or long description. It will be marked in black.

2 Press the icon Edit

3 Use the keyboard for the description.

Print the list of payment modes.

Delete the selected payment mode (from 6 to 9).

3.4.8 VAT types

It is possible to program 5 types of VAT. The VAT 1 will automatically be assigned to the articles sold with Direct Price.

Types of VAT. Press the value to modify.

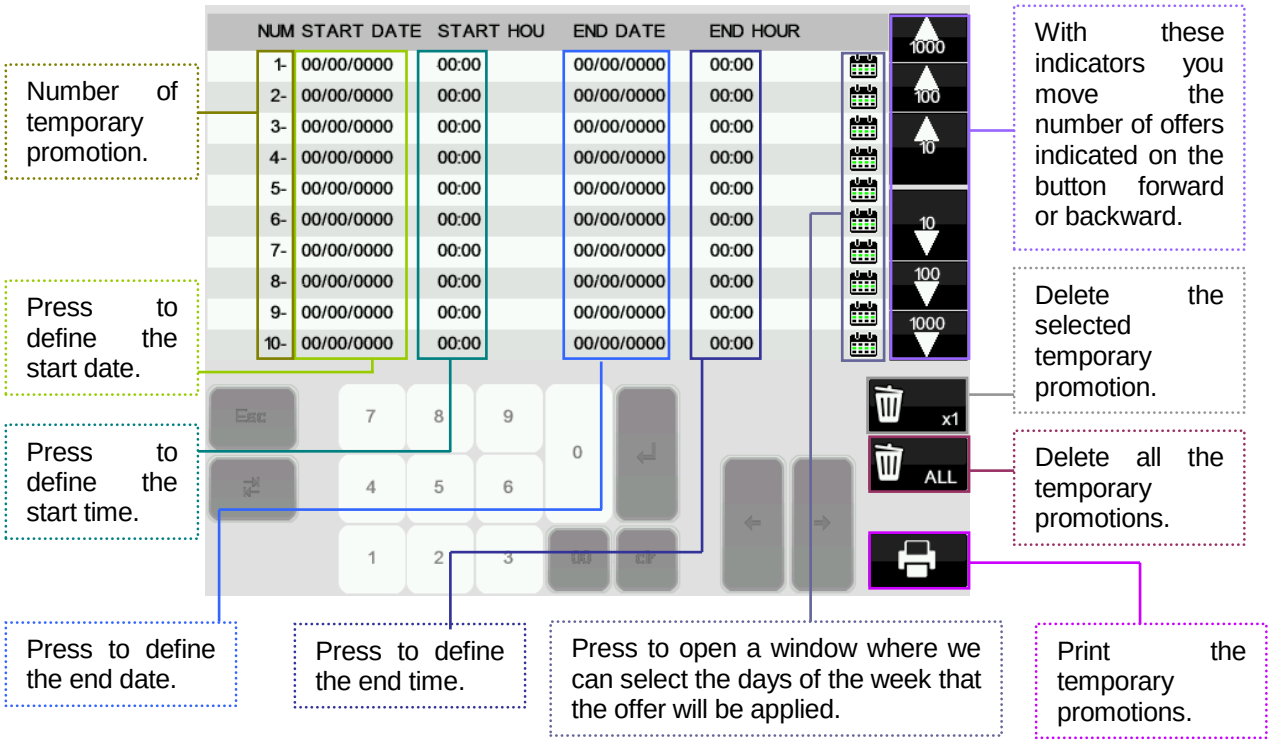
Keyboard.

3.4.9 Currencies

Not available in version 106P.

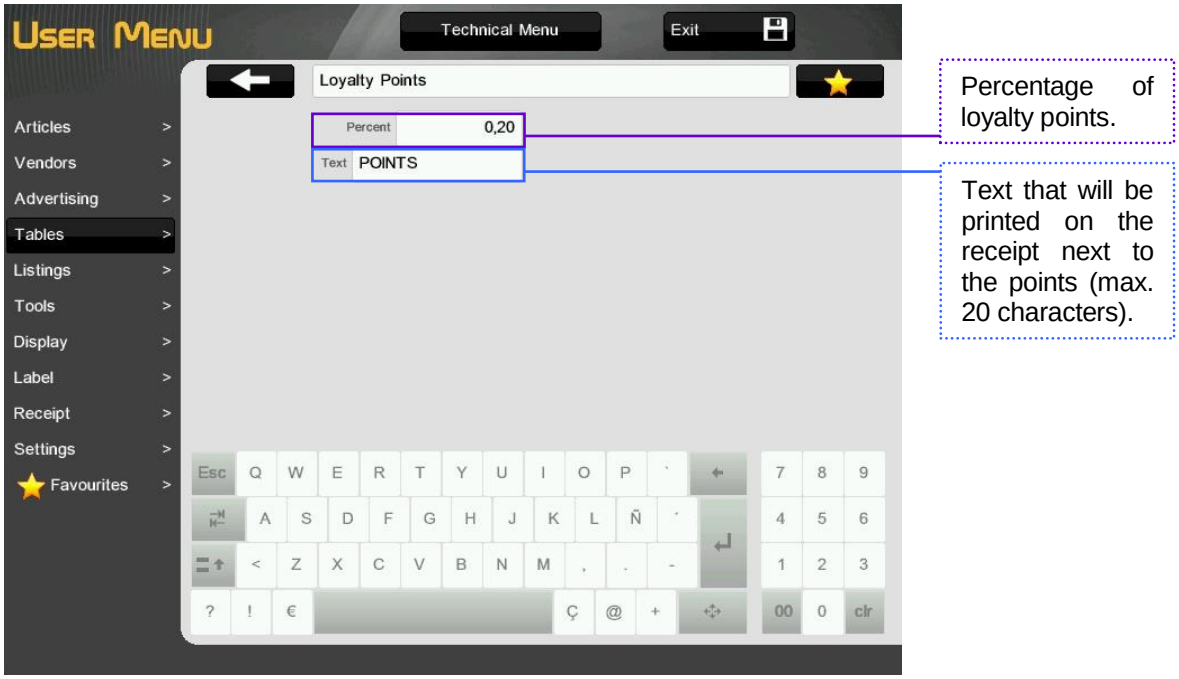
3.4.10 Temporary Promotions

This menu allows to program the time interval of the temporary promotion. See paragraph ***3.1.1 Articles, Offers***). To define the time intervals:



3.4.11 Loyalty points

In this menu we can program loyalty points. It is a percentage of a total amount.



The receipt format must be correctly configured in order for it to be printed on the receipt (see section ***9.2.1.1 Program receipt formats***). In formats 0 and 1 the points are always printed and, in the case of the programmable formats, the said field must be activated.

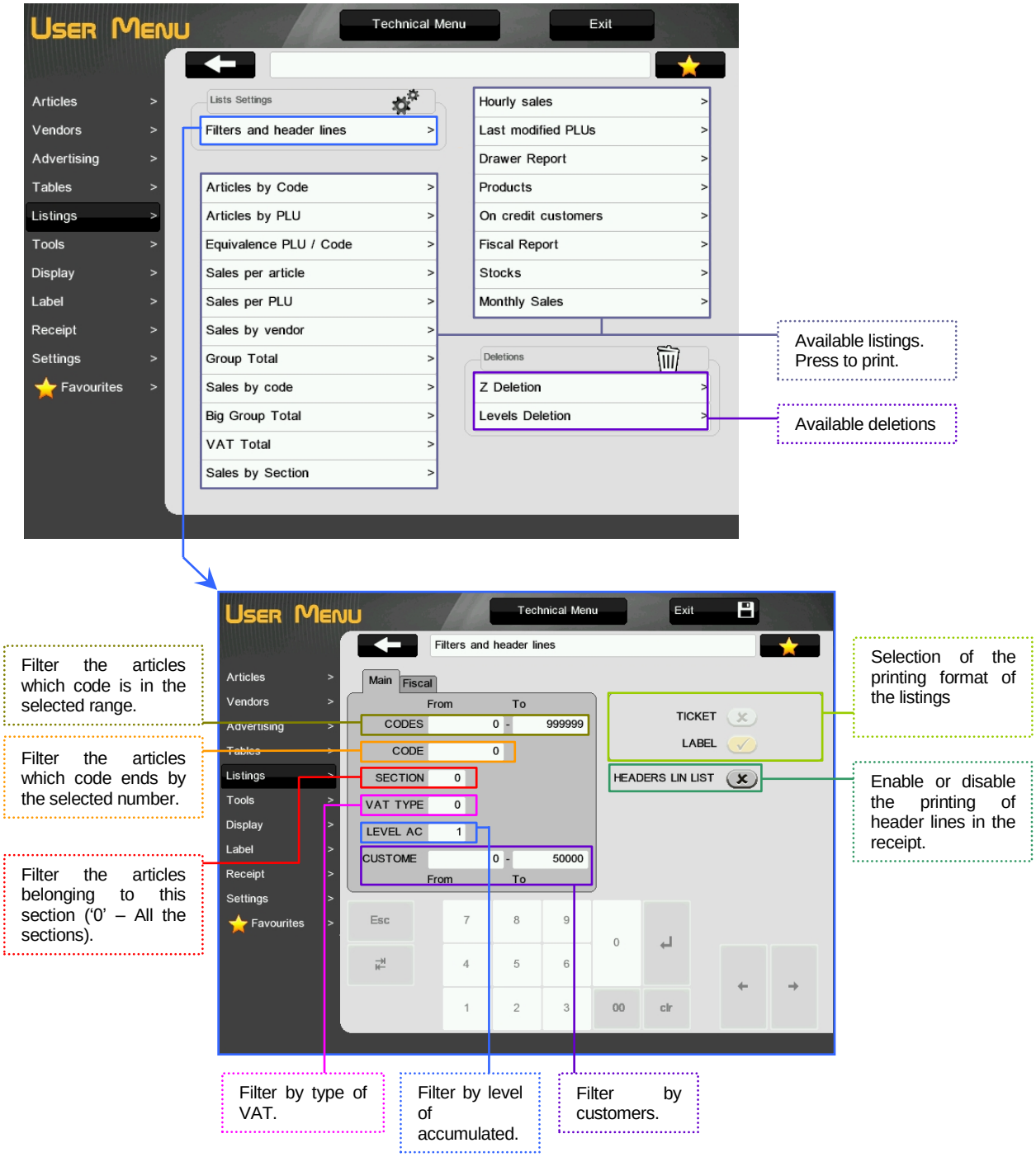
3.5 LISTINGS

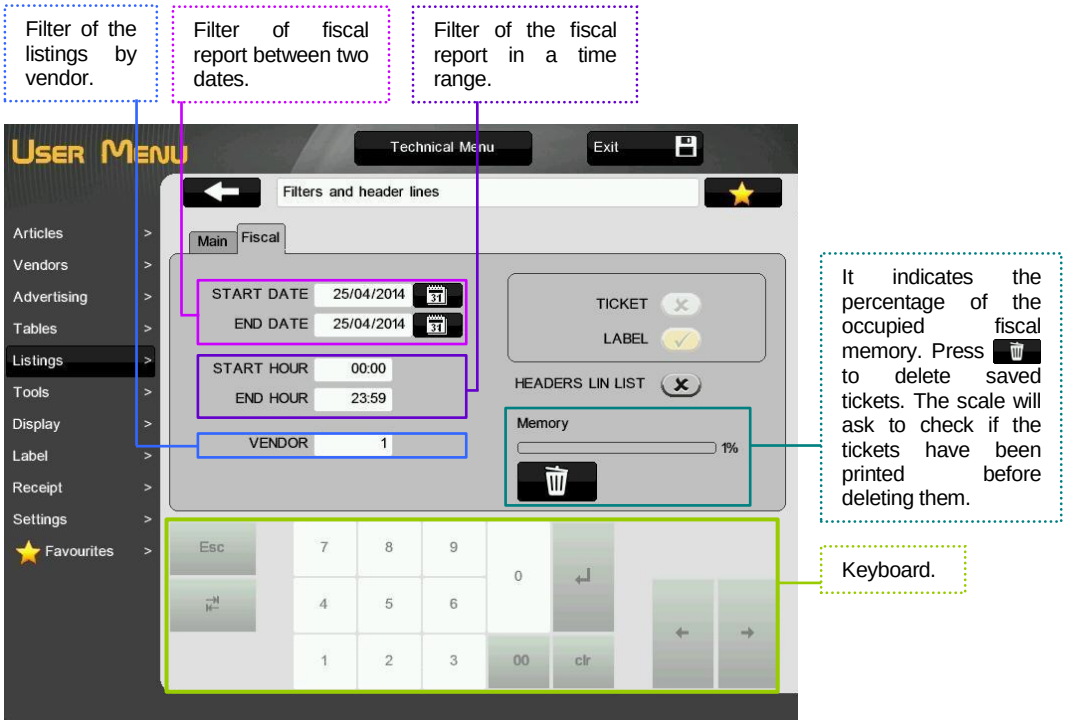
This menu allows to select the listing to be printed and configure and filter these listings.

> To avoid manipulation in the management of the cash drawer, listings involving the sum total of sales cannot be issued until the DRAWER REPORT has previously been printed if the parameter Draw Control has the value Control ON (see paragraph ***3.10.4.8 Draw Control)***).

3.5.1 Filters and Header Lines

This menu allow to program different parameters for the listings, in two options: main and fiscal. It is also possible to define if the listings will be printed in receipt or label format and configure the printing of the header lines in the listings (see paragraph ***3.9.1.2 Receipt headers***).





3.5.2 Available Listings

3.5.2.1 Report of Articles by Code

You can select the range of codes, the department, the section or the VAT rate in ***paragraph 3.5.1 Filters and header lines***. This list includes the codes of the PLU's with their price and designation. At the end of this list the number of codes stored in the scale appears.

CODE – PRICE – DESIGNATION

CODES

3.5.2.2 Report of Articles by PLU

This list shows the direct keys associated with each PLU, together with the price and designation. At the end of the list the number of codes stored in the scale appears.

PLU – PRICE – DESIGNATION
CODES

3.5.2.3 Report of Articles by Equivalence PLU / CODE

This list shows the direct keys associated with each PLU, together with the code and designation. At the end of this list the number of codes stored in the scale appears.

PLU – CODE – DESIGNATION
CODES

3.5.2.4 Sales per Article by Code

This list gives information about sold articles classified by code. You can select the range of codes, the department, the section or the VAT type in ***paragraph 3.5.1 Filters and header lines***. In this list does not appear the article number operation. It includes the PLU's codes with the weight (or units) sold and the total amount. At the end of the list appears the total of the different articles sold, the sum of weights and amounts.

*** WEIGHED ARTICLES***
CODE – WEIGHT – AMOUNT

CODES
ADD WEIGHING
ADD AMOUNTS

*** UNWEIGHED ARTICLES ***
CODE – UNITS – AMOUNT

CODES
UNITS
ADD AMOUNTS

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.5 Sales per Article by PLU

This list shows the sales associated with each PLU, and includes the PLU, the designation and the amount sold of each PLU. At the end of this list the total of the different articles sold and the sum of the amounts is shown.

PLU – DESIGNATION – AMOUNT

CODES
ADD AMOUNTS

3.5.2.6 Sales by Vendor

When selecting this listing the scale will ask which vendor's list do you want to print. This list includes the PLU, the designation and price of the articles sold by the selected employee. At the bottom of the list, information regarding the length of time the employee has been registered (working) and operating the scale (serving customers) is given.

PLU – DESIGNATION – amount
WORKING
ON DUTY

3.5.2.7 Group Total

This list shows the number of operations carried out and the sum obtained for each memory (sales assistant). At the bottom the sum of the operations and the amounts is printed.

MEMORY – OPERAT. – AMOUNT

GR.TOTAL

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.8 Sales per Article by Code

You can select the range of codes, the department, the section or the VAT rate in ***paragraph 3.5.1 Filters and header lines***. This list contains the codes, the associated PLU, the designation, the number of operations, the weight and the amount of each of the articles sold, and at the bottom:

- The total of the different articles sold.
- The total of the no. of operations carried out on the articles.
- The sum of the weight of all articles.
- The sum of the price of all articles.

This list is broken down into weighed and non weighed articles.

*** WEIGHED ARTICLES ***
CODE – PLU – DESIGNATION
OPERATIONS – WEIGHT – AMOUNT

CODES
ADD WEIGHING
ADD AMOUNTS

*** NON WEIGHED ARTICLES ***
CODE – PLU – DESIGNATION
OPERAT –UNITS – AMOUNT

CODES
UNITS
ADD AMOUNTS

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.9 Big Group Total

This list shows the number of receipts (customers) and the total number per sales assistant (memory) broken down acc. to totals, wholesalers' totals, negative totals, weighed articles, non-weighed articles, returned articles and finally, all totals acc. to forms of payment.

********** BIG TOTAL **********
MEMORY – CUSTOMERS – AMOUNT

GR.TOTAL

****** WHOLESALES TOTALS ******
MEMORY – CUSTOMERS – AMOUNT

GR.TOTAL

****** NEGATIVE TOTALS ******
MEMORY – CUSTOMERS – AMOUNT

GR.TOTAL

******** WEIGHED ARTICLES *******
MEMORY – OPERAT. – AMOUNT

GR.TOTAL

****** NON-WEIGHED ARTICLES *****
MEMORY – OPERAT. – AMOUNT

GR.TOTAL

***** RETURNED ARTICLES ****
MEMORY – OPERAT. – AMOUNT

***** CANCELLED LINES ****
MEMORY – OPERAT. – AMOUNT

***** TOTALS WAY OF PAYMENT ****
AMOUNT
CASH

With an aim to checking the discounts applied to both a line and to totals, these lists will include the following information for each sale assistant:

-A list of the discounts applied to the *total of the receipt*: the number of operations indicates the number of receipts in which this type of discount has been applied, and the amount represents the total sum of the amounts discounted.

- A list of the discounts applied to *individual lines*: the number of operations indicates the number of receipts in which this type of discount has been applied to one of these lines, and the amount represents the total sum of the amounts discounted.

In the lists called GRAND TOTAL, WEIGHED ARTICLES and NON WEIGHED ARTICLES, the amounts shown are those before applying the discounts of totals, but after applying discounts to lines. In the list called TOTALS FORM OF PAYMENT, the amounts shown are those following the application of all discounts...

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.10 VAT Total

This list includes the different VAT rates, the value in percentage and the total of each type, and, last of all, the total VAT of what was sold.

RATE – VAT. – TOTAL

VAT TOTAL

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.11 Sales per Section

This list shows the total sum of sales according to departments.

SECTION – TOTAL

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.12 Hourly Sales Report

This list shows the total sum of sales according to time segments. Each segment lasts one hour.

HOUR – TOTAL

There are different types of levels:

Level 1 → (day's sales)

Level 2 → (weekly sales)

Level 3 → (monthly sales)

You can filter the level of accumulated in ***paragraph 3.5.1 Filters and header lines***. By default the scale will print the report corresponding to level 1. For more information about levels of accumulated see the ***paragraph 3.6.4.3.3 Levels deletion***.

3.5.2.13 Last modified PLUs

This list includes the latest PLU's modified according to code. You can select the range of codes, the department, the section and the VAT rate in ***paragraph 3.5.1 Filters and header lines***. The list shows the PLU codes with their price and designation. The number of the latest codes modified appears at the end.

CODE – PRICE – DESIGNATION

CODES

When the listing is printed the scale asks if we want to delete the last modified PLUs. Once deleted it displays in the screen "MOD DELETED".

3.5.2.14 Drawer Report

This list includes the totals, classified according to form of payment, and the state of the cash drawer when first opened, as well as the balance.

If you print the list for the first time after starting up the scale, at the end of the day with or without deletion or clearance to zero of partial accumulation, you must enter the amount of money there is in the cash drawer with the numeric keypad, for its subsequent check with the balance obtained by the scale.

This list can be printed as often as possible, but the amount to be checked can only be entered the first time after starting up the scale, at the end of the day with or with deletion or following a clearance to zero of partial accumulation. This prevents the balance being manipulated.

** TOTALS WAY OF PAYMENT **

WAY OF PAYMENT – AMOUNT

CASH

CARD/CHECK

CREDIT

***** CASH DRAWER STATE *****

STARTING TIME (time cash drawer is opened for the first time in the day)

CASH SALES

LODGMENTS

WITHDRAWALS

REAL AMOUNT

CHECKED AMOUNT

DIFFERENCE

3.5.2.15 Traceability Products Report

This list includes the animals programmed in the scale.

PROD. – REF. – NUMBER – WEIGHT

ADD WEIGHING.:

3.5.2.16 On Credit Customers Report

This list includes the customers with the pending debt for each one.

CUSTOMER – AMOUNT

3.5.2.17 Fiscal Report

This list shows all receipts and labels that the scales have issued. The way this list functions depends on the value of the FISCAL MODE parameter (Technical Menu → Application → Basic Settings → Fiscal Mode).

This parameter provides a list of all receipts from that day or several days, following the order in which they have been saved. Before printing the list, the required period should be entered. By default, the start and end date are set with the value of the current date programmed on the scales. To edit this date see ***sect. 3.5.1. Filetrs and header lines***.

The Fiscal list can be printed on the receipt printer (by default) or the labeller. In the latter case, insert a continuous roll of paper. To change printers, select between *Ticket* or *Label* on the menu Filters and header lines (see ***sect. 3.5.1. Filetrs and header lines***).

> To Fiscal List with rewinder, in order to the continuous paper roll does not touch and can turn, it is necessary to use 40 mm the mandrel paper roll.
>
> The characteristics of these rolls are: Internal diameter 40mm, external diameter 100mm., width 60mm., external emulsion. (***BK-60X100: Roll unprinted white thermal paper. 60x100x40.***

It is possible to consult the occupation level of the fiscal memory and erase it, going to *Fiscals* tab on Filters and header lines menu (see ***sect. 3.5.1. Filetrs and header lines***).

If the reopen receipt parameter is set to 9 (any receipt in the memory may be reopened), receipts cannot be reopened if they were entered prior to the last deleting action.

In fiscal mode, receipts are not deleted even if they are sent to PC (they are sent if 1 is selected in the "Day's transactions" parameter).

3.5.2.18 Stocks Report

It prints the current stock of all articles that there are programmed in the scale.

For list optimization, only the articles that have the stock different from zero are printed. Also, the articles of the type "refund" will not be printed as they do not have any sense for the control stock

COD	–	STOCK	–	DESIGNATION
000270		25,000		CHICKPEA
000271		18,000		LENTIL
000273		28,000		BOLETUS

CODES……: 3

3.5.2.19 Monthly Sales Report

For this list to work, the scale must be operating in tax mode. The scale creates a record every time an accounting entry is deleted, e.g. a Z deletion. The start and end dates for which the list is to be printed must have been previously set (see section 3.5.1 Filters and header lines).

ACCUMULATED TOTAL

DATE

OPERAT. AMOUNT

***** BIG TOTAL *****

*** WHOLESALES TOTALS ***

*** WEIGHED ARTICLES ***

** NON WEIGHED ARTICLES**

3.5.3 Available Listings

3.5.3.1 Z Deletion

This option deletes the sales data accumulated in the scale and prints a list with these sales data.

The vendors will be deleted.

If the user does not want the deletion of the vendors when a Z Deletion is done, it must be programmed in Technical Menu → Application → Basic Settings → Vendors Deletion .

To carry out this operation:

1. Access the user menu by pressing MENU.

2. Press the key Listings.

3 Press the Z Deletion key.

4. The scale gives us two options: "Print and delete" or "Just print":

- By pressing "Print and delete": A list of clearance to zero of the 1 level will be printed, the accumulated sales will be transferred to level 2, and the vendors will be removed.

- By pressing "Just Print ": A list of the 1 level will be printed, the scale won´t make a clearance of to zero and the vendors won´t be removed.

3.5.3.2 Levels Deletion

In the **D-900** scales there are 3 levels of totals: 1, 2 and 3.

The deletion of a level accumulates its data in the upper level (i.e. if the user deletes the Level 1, then the sales of this level will pass to Level 2).

A typical use of these levels of totals is the control: Day-Week-Month.

The user deletes every day the Level 1, the scale prints a List and the data pass to Level 2.

The user deletes at the end of the week the Level 2, the scale prints a List and the data pass to Level 3.

The user deletes at the end of the month the Level 3, the scale prints a List and the data are deleted.

> ! If the parameter *Oblige to close tickets* is activated (Technical Menu → Application → Basic Settings → Other Settings), it will not be possible to do a Z deletion or a levels deletion if there is an opened receipt on the scale.

3.6 TOOLS

3.6.1 Loading and Downloading Data

Consult the appendix on loading images

3.6.1.1 USB Data Load

It is possible to load a backup file (*.BCK) from an external USB device (memory stick) through the USB port of the scale.

The file must have the extension .bck.

It is also possible to load images in the scale by importing a backup file including images (see ***paragraph 6.1 Loading of Images***).

3.6.1.2 USB Data Download

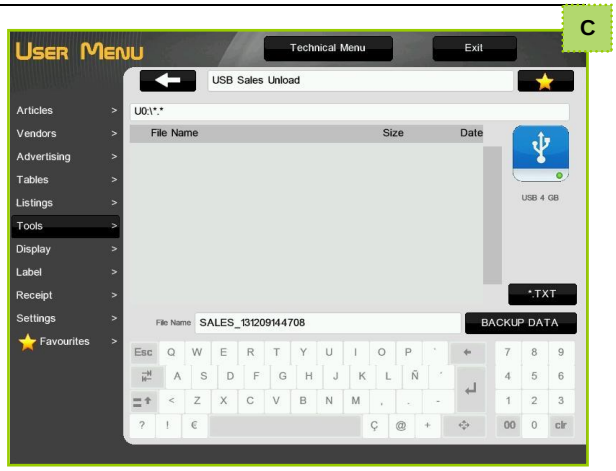
It is possible to download the data of the scale to an USB device through the USB port.
It will be created a file with extension *.BCK.

The file has a default name:
DIBAL_M-MMM_CCC_VVVV_YYMMDDHHMMSS.BCK

Where:

- M-MMM model of the scale (i.e. D-955)
- CCC country (i.e. ESP).
- VVVV SW version of the CPU (i.e. 101D)
- YYMMDDHHMMSS date and time
- BCK is the extension of the file.

3.6.1.3 USB Sales Download



It is possible to download the sales of the scale to an USB device through the USB port.
It will be created a file with extension *.TXT

The default name of the file is:
SALES_YYMMDDHHMMSS.TXT

Where:

- YYMMDDHHMMSS is the date and time when the download has been done
- TXT is the extension of the file

3.6.1.4 Export tickets to USB

We can download the tickets of the scale to an USB device. Together with the receipts, you can also attach a list of Group Total, a list of Totals by payment mode and a detailed list of VAT. The parameter *Fiscal Mode* must be at *Yes* (Technical Menu → Application → Basic Settings → Fiscal Mode) After pressing *Backup data* we must select the starting and ending date and time that the tickets we want to export were issued in.
Two files will be generated, a TXT file and a CSV file. We can introduce a name for them or use the default one.

SALES_YYMMDDHHMMSS.TXT
SALES_YYMMDDHHMMSS.CSV

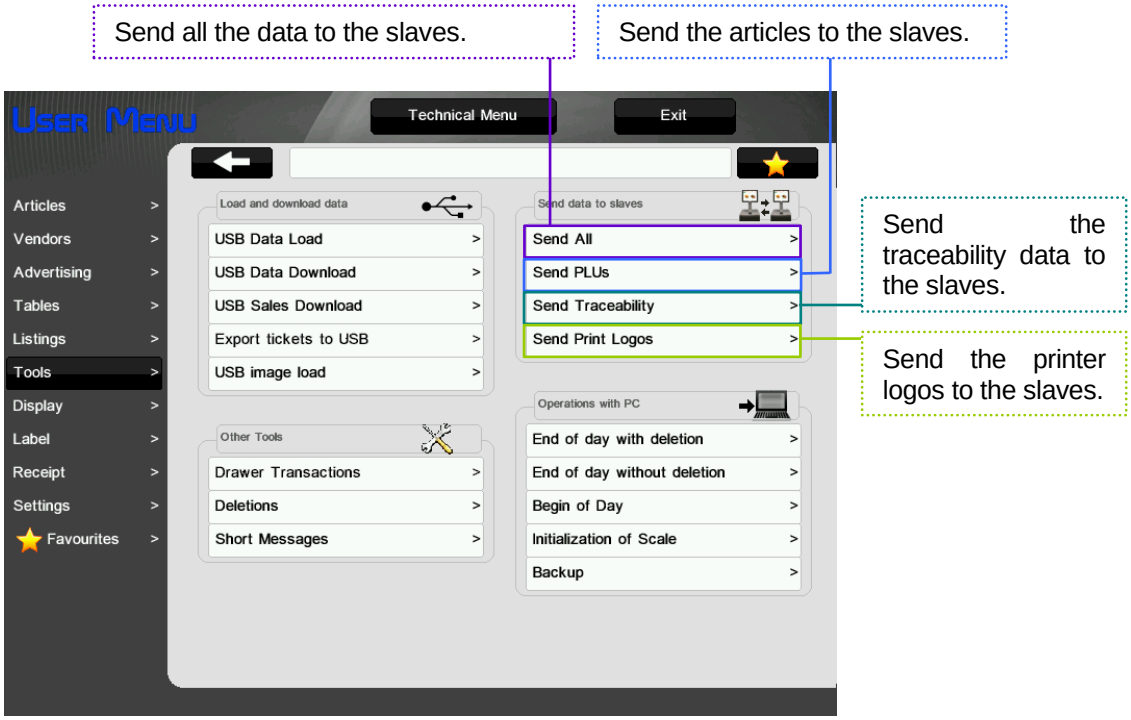
Where:

- YYMMDDHHMMSS is the date and time when the download has been done.
- TXT and CSV are the extensions of the files.

3.6.2 Send data to slaves

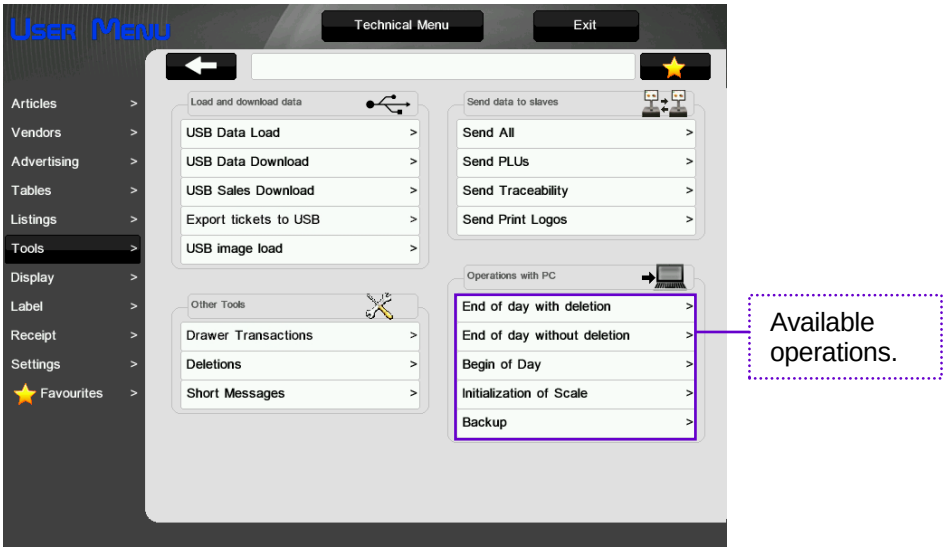
This menu allows to make a copy of the data of the master scale in the slave scales.

The scale will print a list with the status of the scales of the network and it will start the load of data to the slaves. At the end of the load, the scale will print a list with the result of the operation.



3.6.3 Operations with PC

This menu includes the operations that the scale can do in case of PC connection and the total deletion of the scale.



3.6.3.1 End of Day with Deletion

This operation allows to send the sales data stored in the scale to the computer.
The totals of sales stored will be set to zero.

3.6.3.2 End of Day without Deletion

This operation allows to send the sales data stored in the scale to the computer.
The totals of sales stored will not be set to zero.

3.6.3.3 Begin of Day

This operation allows to receive from the computer the new articles, vendors, heading lines, sections, etc.

3.6.3.4 Initialization of Scale

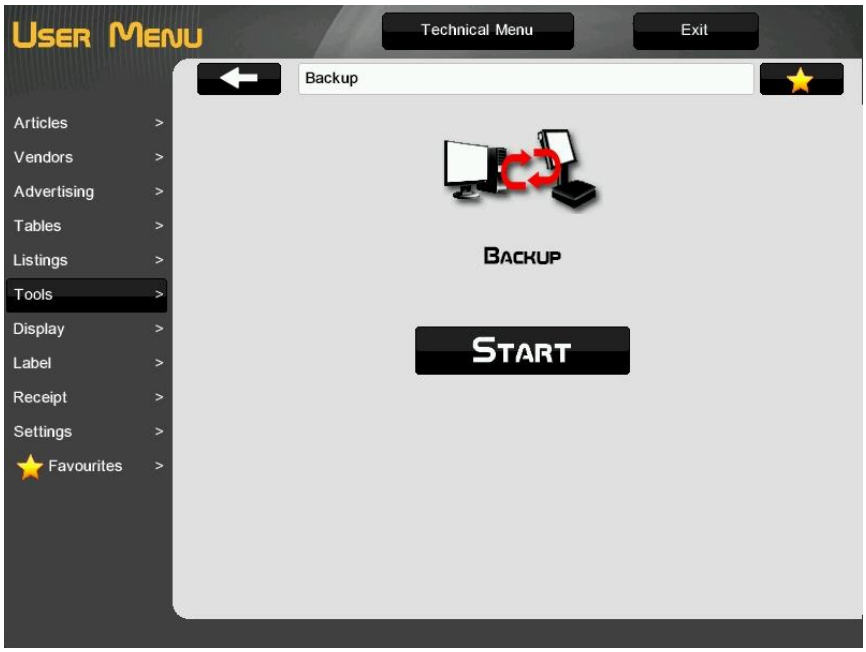
With this operation it is possible to delete all data from the scales except images, fonts and ingredients.
The PLUs and sales assistants' memories will be deleted.

> If the scales are a MASTER, after startup all PLUs must be re-programmed, either manually or by downloading them from the PC. The same process must also be followed for the sales assistants and other set-up values. If the scales are a SLAVE, when the delete option has been effected, the scales will request that new articles should be sent from the corresponding MASTER.

3.6.3.5 Backup

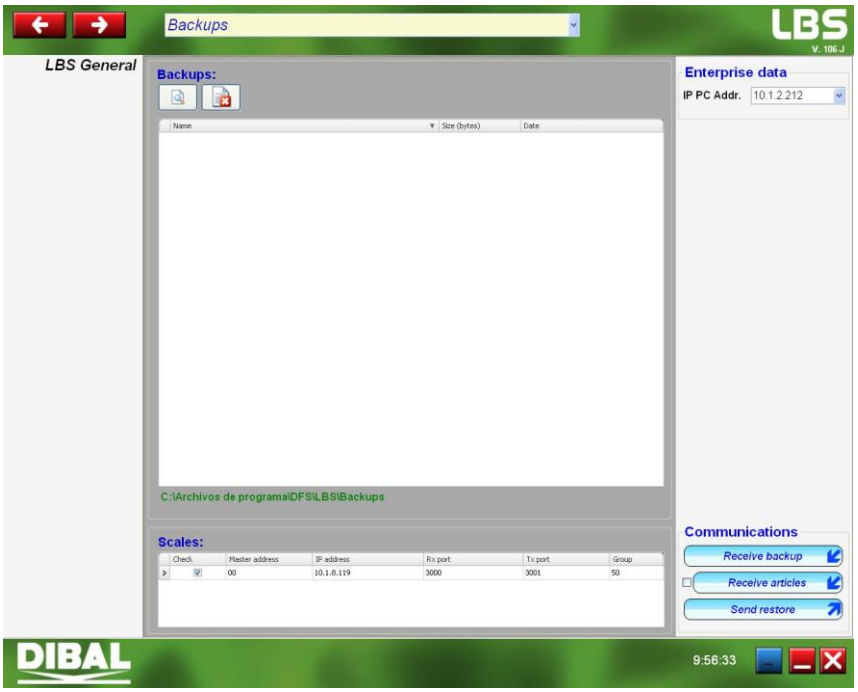
This mode allows to make a backup file of the scale or to restore the data from a backup file to the scale.

If we press **Backup** in the scale the next window will be shown, where we must press START.



Once we have put the scale in LBS mode, we will use LBS (Load Backup System) software to make a back up copy of the scale or for loading programmed data.

The following screen will display once the program is run:



Enter the PC's IP address as well as the IP address of the scale or scales you are working with.

Then you can make back-up copies of the scale (Backup) and restore the scale system using one saved previously in the event that is has failed (Restore).

3.6.3.5.1 Backup copy

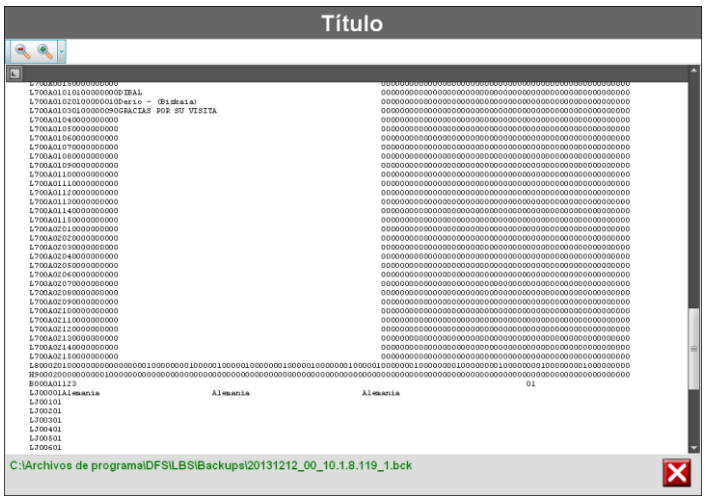
In order to make a backup copy of a scale, enter its IP address and then click on

.

The scale must be in LBS MODE. Otherwise it will display error and fail to make any backup copy.

Once the program has finished making the backup copy, it will be automatically saved in the following route: C:\Archivos de programa\DFS\LBS\Backups

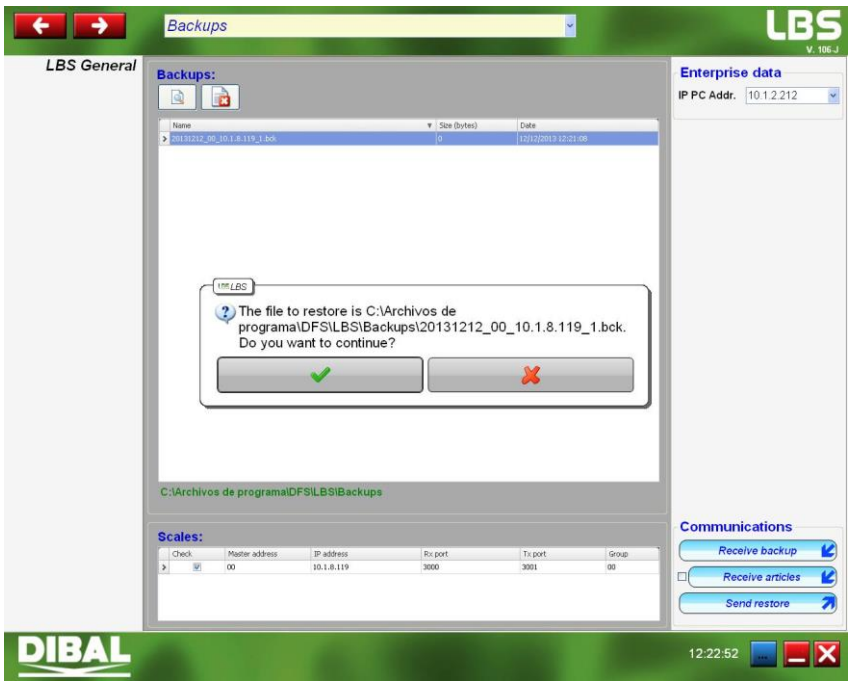
Click on if you wish to consult the contents of a backup copy.



3.6.3.5.2 Restore file

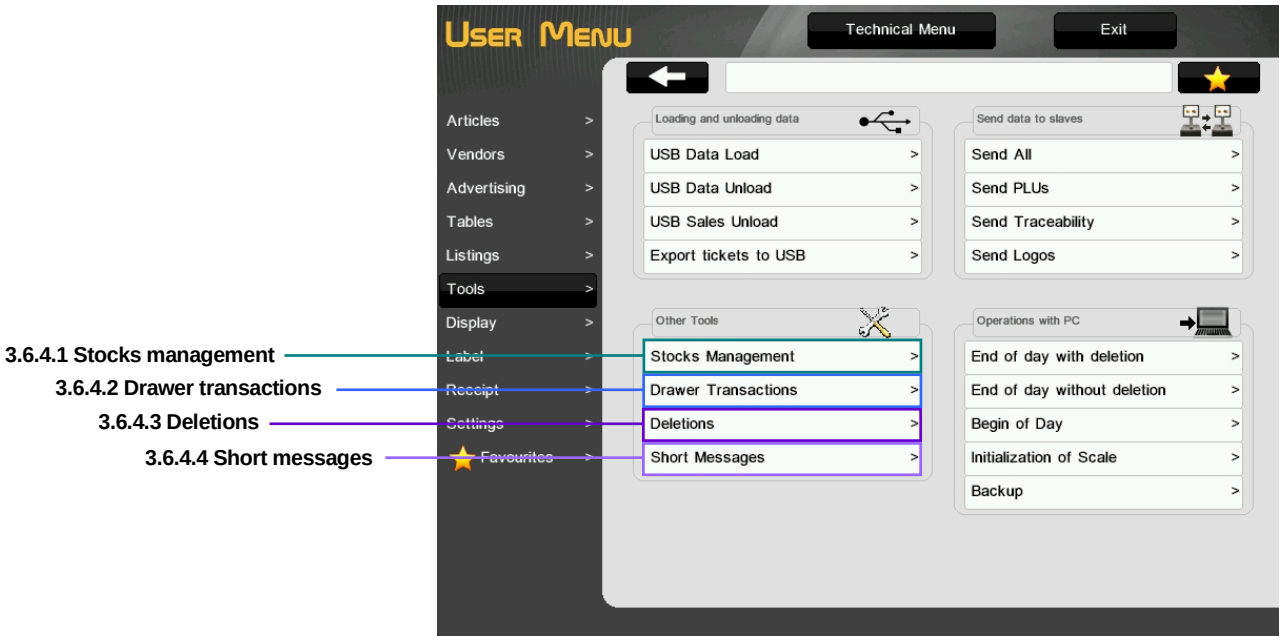
In order to restore a file in the scale, select the file to be restored and click on

.



Click on to restore the file in the scale or on to cancel.

3.6.4 Other tools



3.6.4.1 Stock management

It allows to configure which are the sales subtract from the stock:

'NO CONTROL': Without stock control.

'IN TICKET': Only the tickets subtract the stock.

'IN TCK & LABL': The tickets and the labels subtract stock.

'IN LABELS': Only the labels subtract the stock.

Once programmed the stock of the articles, they will be deducted from the current stock as they are being sold.

Thus, we will have the database of the scale updated with the real stock in the shop.

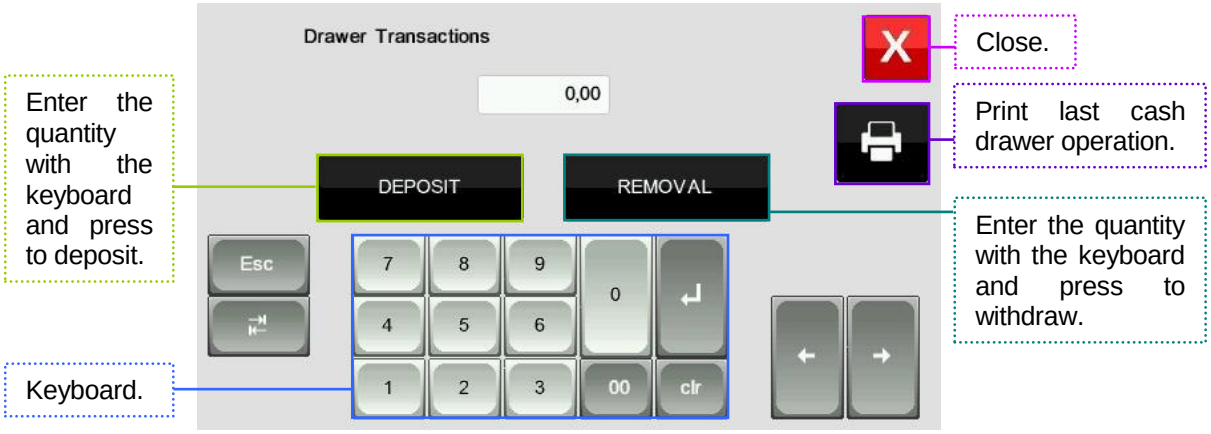
Sold weight will be discounted from the stock of weight-type articles and units from the stock of unit-type articles.

3.6.4.2 Drawer transactions

The D-900 scales include a RJ11 connector for cash drawer connection.

The cash drawer will open after printing a receipt or by pressing the key Cash Drawer Open

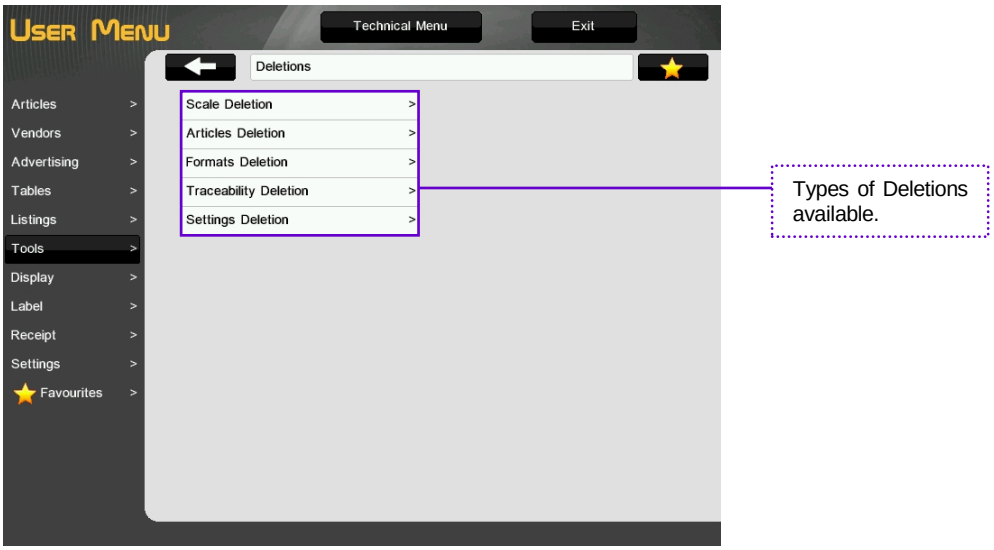
It is possible to activate in the scale the option Draw Control (see paragraph ***3.10.4.8 Draw Control***). When the option Drawer Transactions is pressed, the scale will show the following screen, used to deposit or withdraw money from the cash drawer.



The scale includes a special List to make a balance of the cash drawer, this list prints the totals by payment modes and the cash drawer status. Before printing this list, the scale will ask for the quantity of money existing in the cash drawer in order to compare it with the quantity calculated by the scale.(see paragraph ***3.5.2.14 Drawer Report)***

3.6.4.3 Deletions

This menu allows to make a deletion of different data of the scale



3.6.4.3.1 Scale Deletion

This option deletes all the data of the scales but the images.

3.6.4.3.2 Articles Deletion

This option deletes the articles stored in the scale.

3.6.4.3.3 Formats Deletion

This option deletes the programmable receipt and label formats of the scale.

3.6.4.3.4 Traceability Deletion

This option deletes the Traceability data of the scale

3.6.4.3.5 Settings Deletion

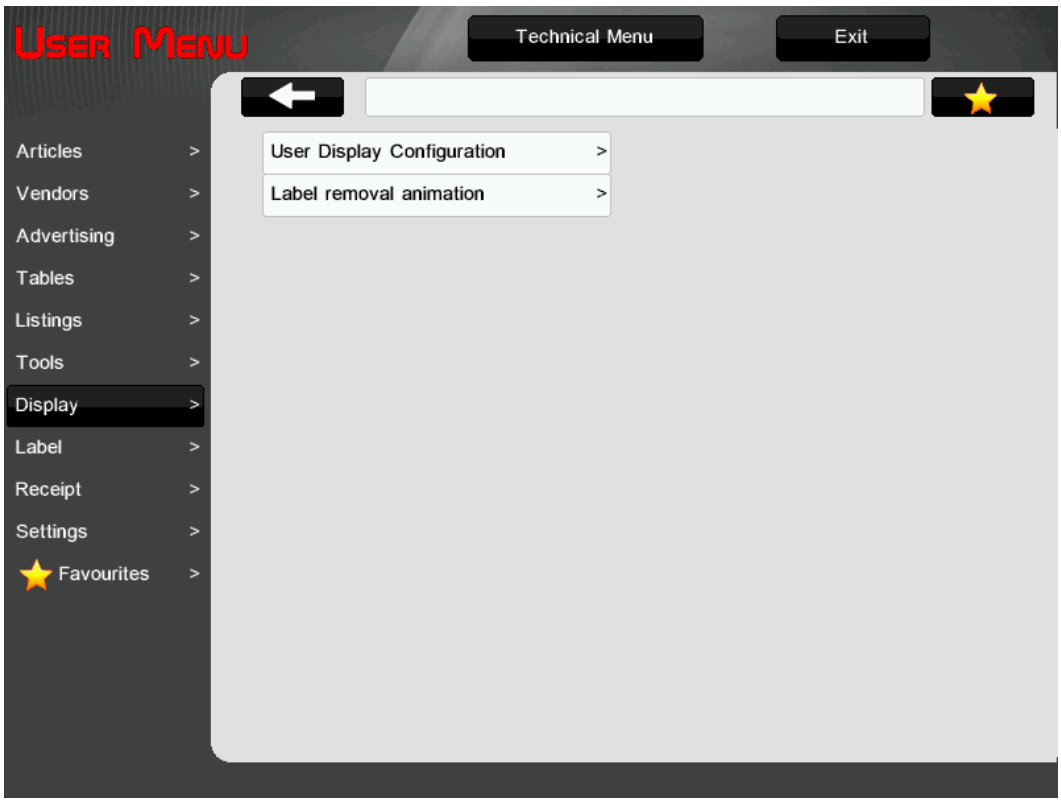
This option programs the configuration parameters of the scale to their default values.

3.6.4.4 Short Messages

Not available in version 106P.

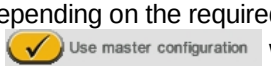
3.7 DISPLAY

The scale display configuration is dealt with in this section. The menu displays two options as can be seen in the image below. User Display Configuration and Remove Label animation.



3.7.1 User Display Configuration

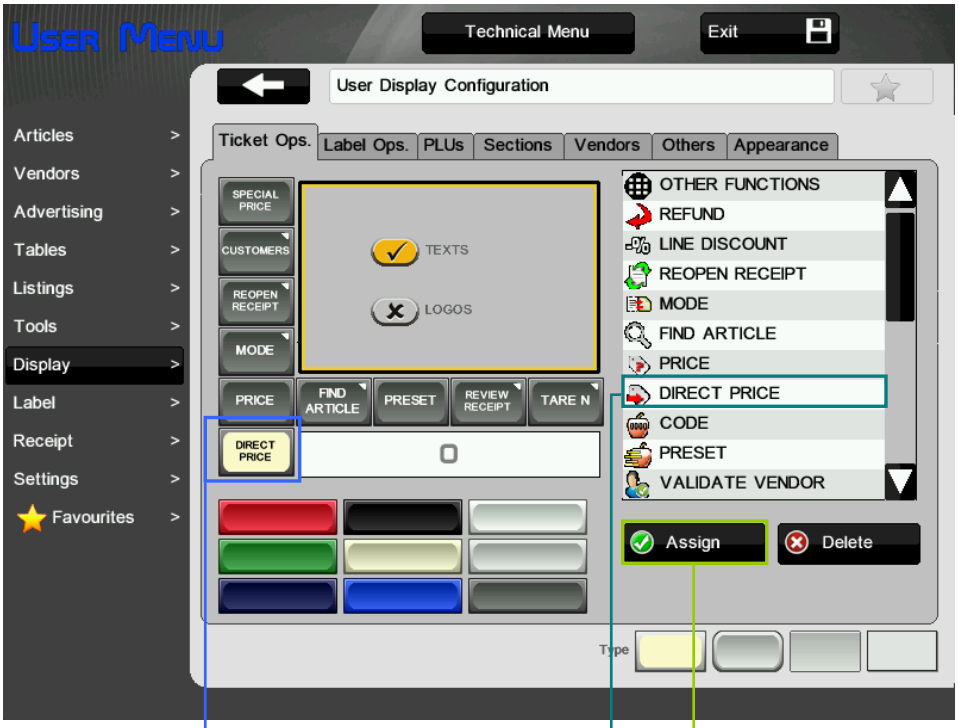
This menu allows to customize the interface of the user display in the different working modes. The different keypads are resized automatically depending on the required space for an optimal viewing.

If the scale is configured as slave, the button 

will be enabled. This option allows us to use the same display configuration as in the master scale. If we want to use a different configuration, the options are shown in several tabs:

3.7.1.1 Ticket Operations

This menu allows to customize the programmable keys (functions) of the display in receipt working mode. It is possible to assign a function, a color and a style to the programmable keys. If we are working on ***Receipt-1*** mode the tab will show as below. To assign a function to a key:



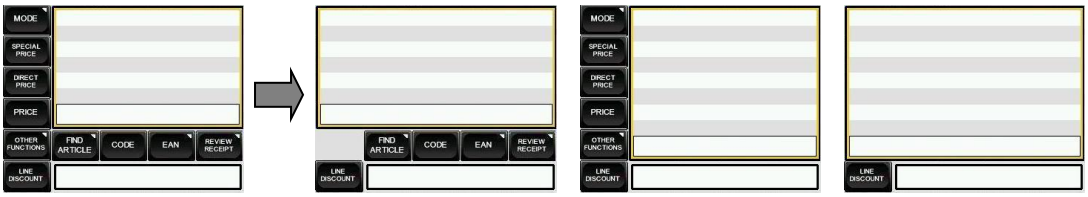
1 Select the key to edit. It will be highlighted in yellow.

2 Select the new function to be assigned to the key. It will be marked in black.

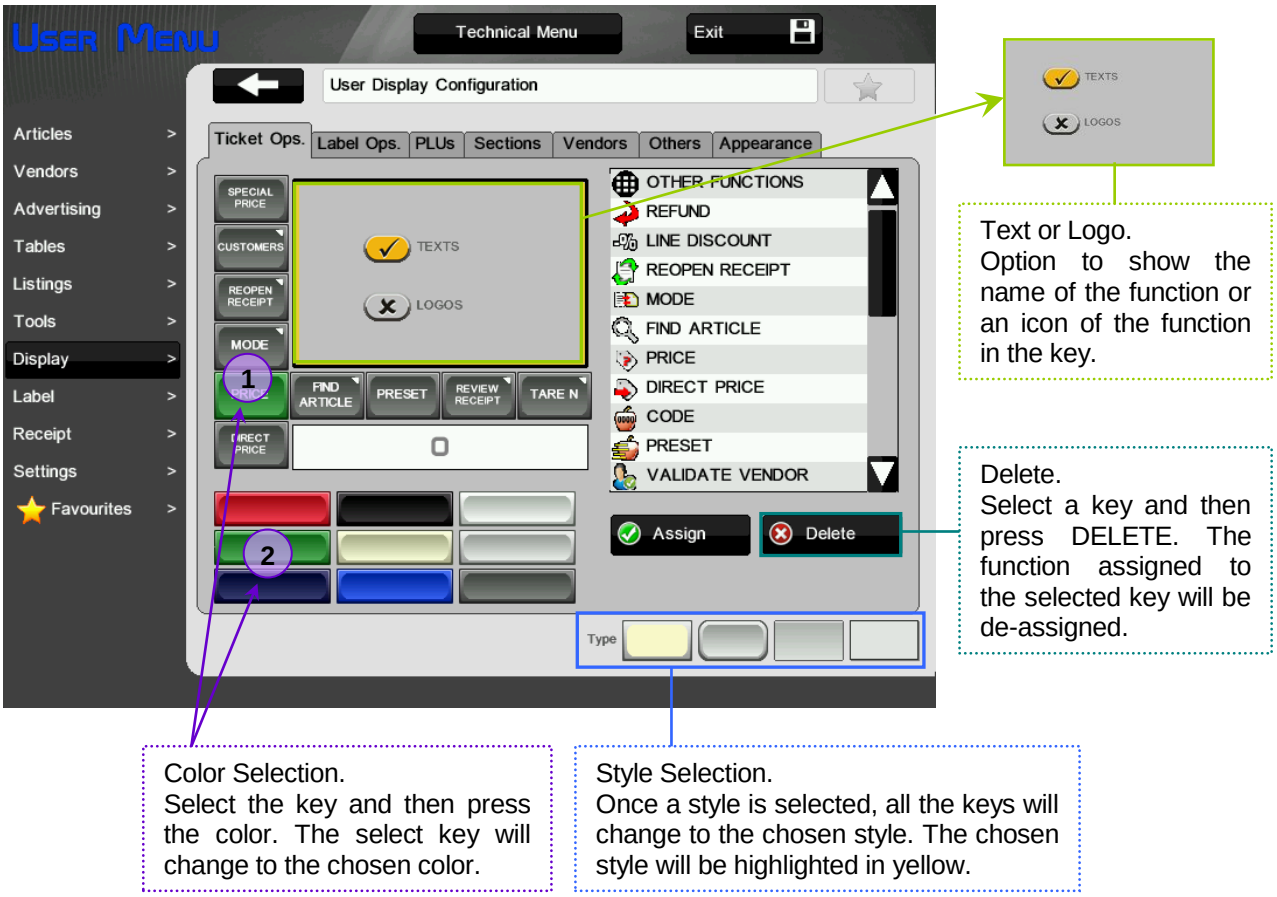
3 Press the key Assign. The key will be configured with the assigned function.

If we program consecutive keys without an asigned function or with the same function, it will result a larger key.

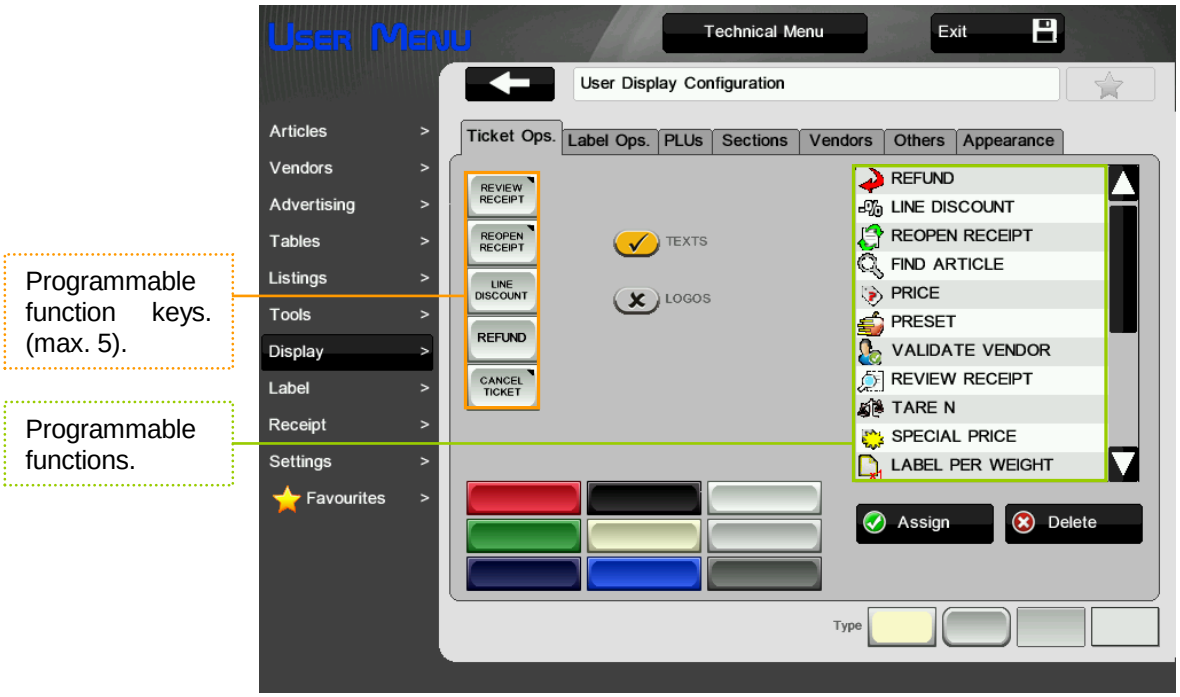
If we delete all horizontal or vertical keys (or both) next to the receipt/label preview, this preview will get larger.



To customize the color and the style of the keys:



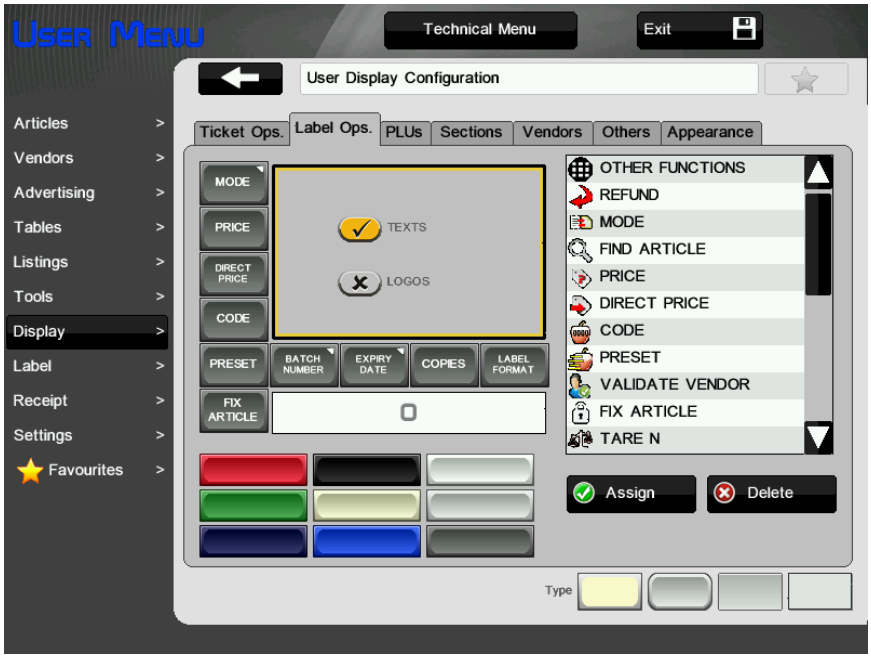
If we are working on ***Receipt-2*** mode, Ticket Operations tab will show as below:



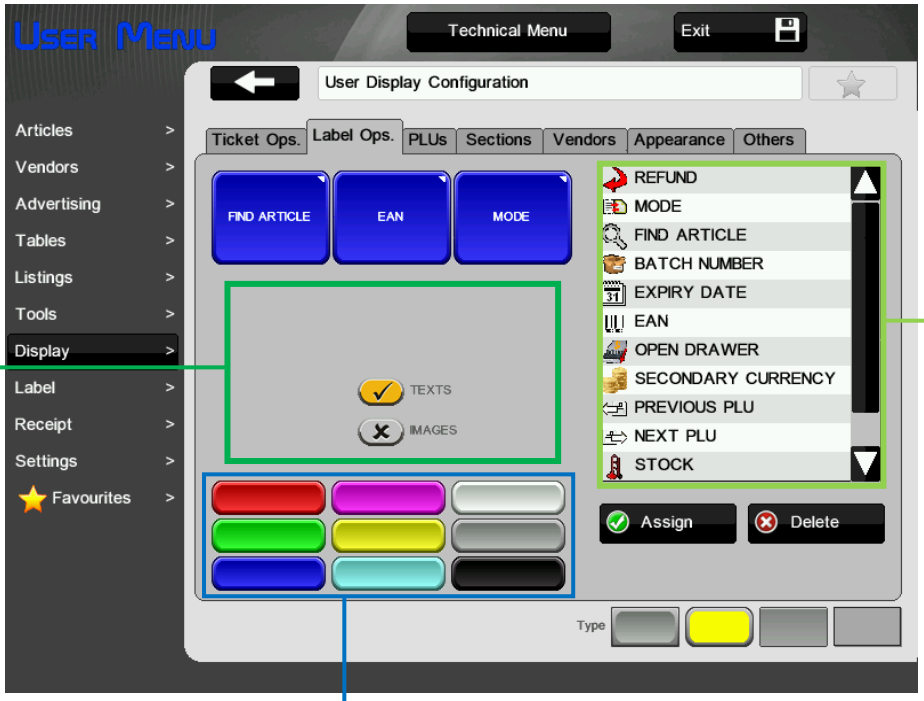
Fixed functions “Fix article”, “Code”, “Price”, “EAN” and “Mode” can not be assigned to programmable function keys.
The rest of the configuration of this tab is done as in *Receipt-1* working mode configuration.

3.7.1.2 Label Operations

This menu allows to customize the programmable keys (functions) of the display in label working mode.
It is possible to assign a function, a color and a style to the programmable keys.
The procedure is exactly the same as in receipt mode (see ***paragraph 3.7.2.1 Ticket Operations***).



If the working mode is set up as **Mixed Mode,** the *Label Operations* tab will look like this.



It means the keys can have text or a logo.

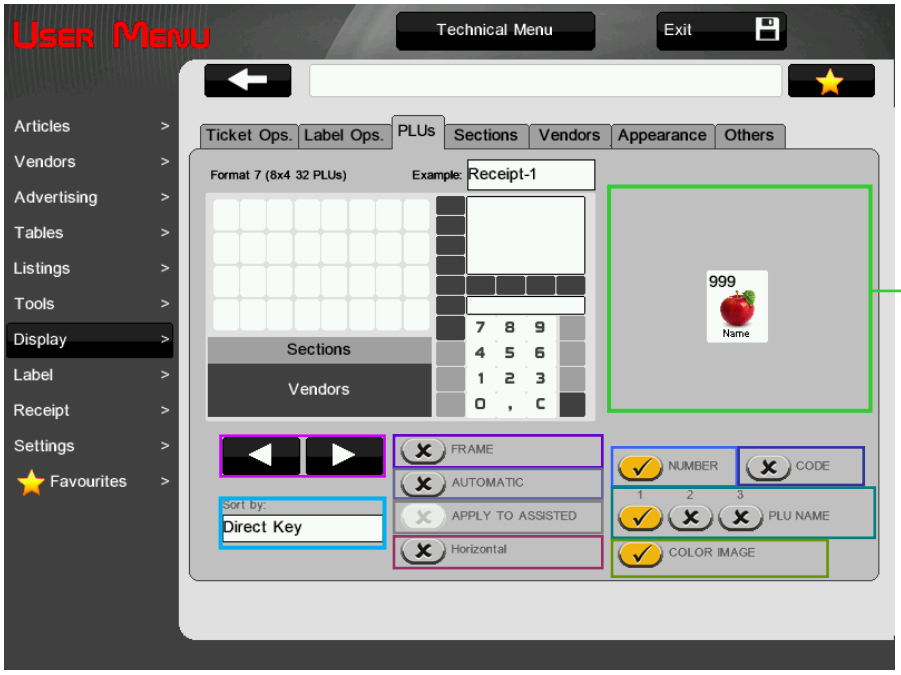
Programmable functions.

Available range of colours for assigning to the function keys.

3.7.1.3 PLUs

This menu allows to configure the design of the PLU keys. The configuration is different for *Receipt-1/Label*, *Receipt-2* and *Self-Service-1/Self-Service-2* working modes:

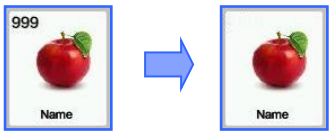
In ***Receipt-1*** and ***Label*** working modes:



This window shows what the PLUs look like after applying the selected settings.

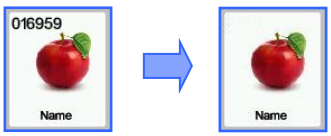
NUMBER

NUMBER. Shows the PLU number in the key (incompatible with article code).

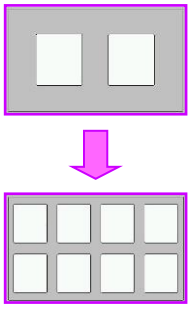


CODE

CODE. Shows the code of the article in the key (incompatible with PLU number).

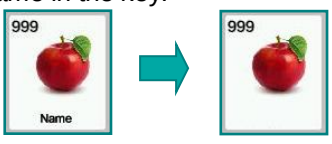


SIZE/NUMBER OF KEYS.
This keys allows to select the number of PLU keys per screen if the option *Apply to assisted* is activated.



PLU NAME

PLU NAME. Shows the article name in the key.



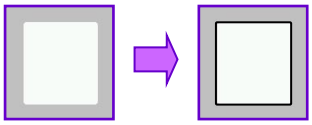
It is possible to choose if we want to show the Name, Name 2 or Name 3 of the article.

COLOR IMAGE

COLOR IMAGE. Shows the image of the article.

FRAME

FRAME. Enable the frame in the PLU keys.



APPLY TO ASSISTED

If we activate this option, the options "Horizontal", "Automatic" and ◄ ► buttons will be enabled. If *Apply to assisted* is not activated, a fixed PLU template will be applied.

AUTOMATIC

AUTOMATIC. It adapts automatically the number of PLUs shown at the screen (in self service mode) until reach the minimum size selected.

At least one of the options: NUMBER, CODE, PLU NAME or COLOR IMAGE must be active.

Horizontal

It allows to select the orientation of PLU keys: vertical or horizontal.

The horizontal orientation is optimal when we want to prioritize the space for the name.

Sort by:
Direct Key

Here you can choose the order of the layout of the PLUs. It can be by:

- **0 – Direct key**: ordered according to the value of the direct key.
- **1 – Name**: ordered alphabetically by name.
- **2 –Most sold:** ordered by most sold.

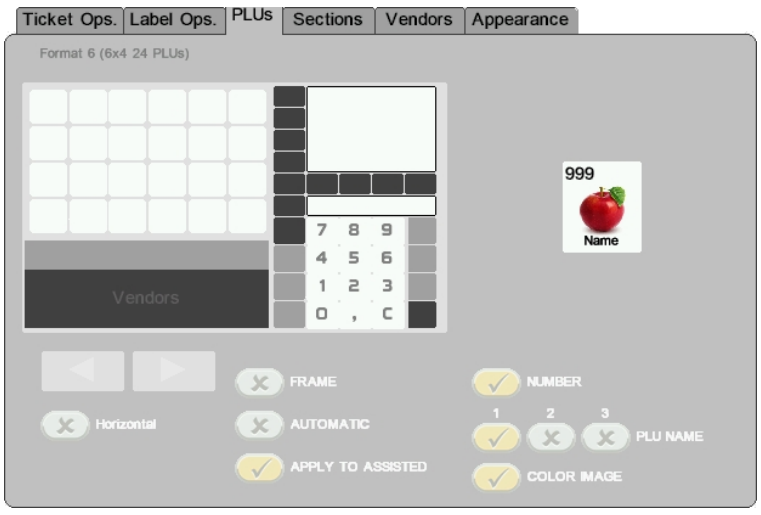
Frecuencia ordenacion:
< 7 > Dias

Here you select the frequency with which the sales screen is classified. The minimum is 1 day and the maximum is 999 days.

This setting is only visible if order by "Most sold" is selected.

In ***Receipt-2, Self-Service-3, Self-Service-4*** working mode:

If we are working on *Receipt*-2 mode, the PLUs tab will be disabled since this working mode does not have PLU keys.

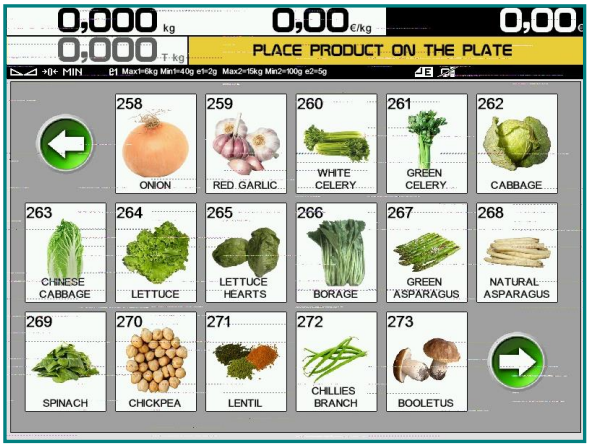


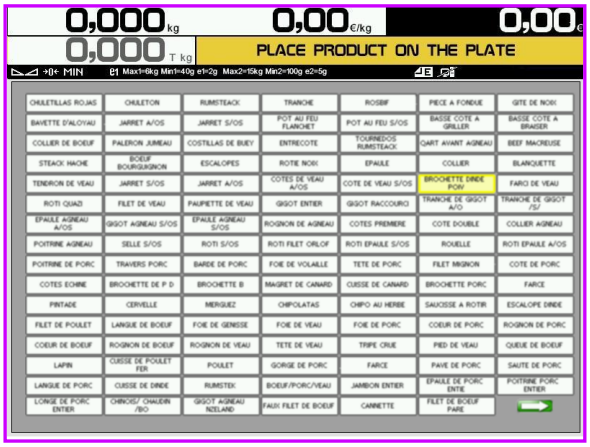
For ***Self-Service-1***, ***Self-Service-2*** and ***Self-service-5*** working modes:

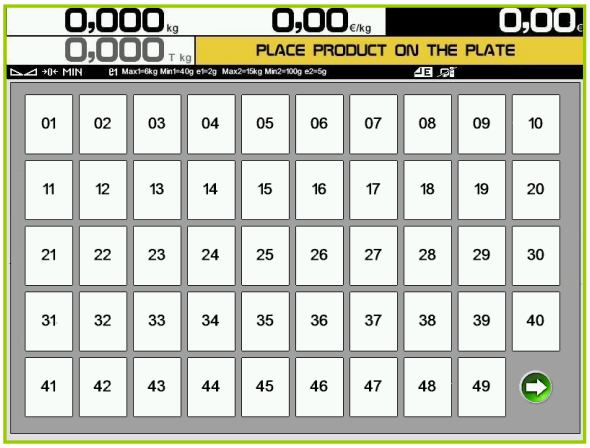
The way to configure the PLU keys when we are working on *Self-Service-1* and *Self-Service-2* modes is exactly the same as in assisted sales modes. As in this working modes there are not any function, section or vendor keys, there is more space available for PLU keys. In the configuration menu, the option *Apply to assisted* will be disabled.

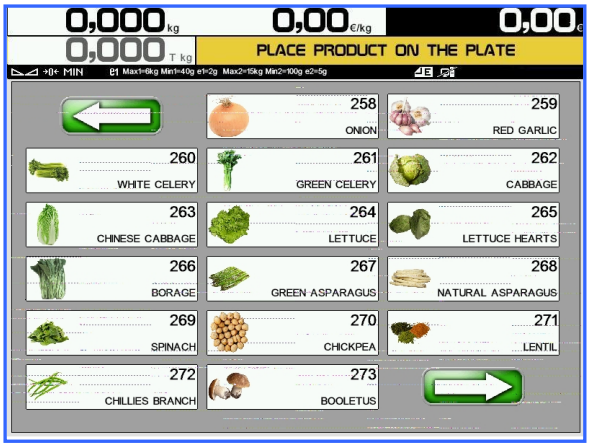
We can choose the size of the keys, activate their automatic setup, the frame, PLU number, PLU name, color image and the orientation of the keys.

Examples:









3.7.1.4 Sections

This menu allows to select the section keys to be shown and configure these keys. It is possible to show a maximum of 20 sections on the *Receipt-1* and *Label* working modes, 4 sections on *Receipt-2* mode and 5 sections on *Self-Service-1* working mode.

1

Select the section key to be edited . It will be highlighted in yellow.

2

Select the section to be assigned to the key. It will be marked in black.

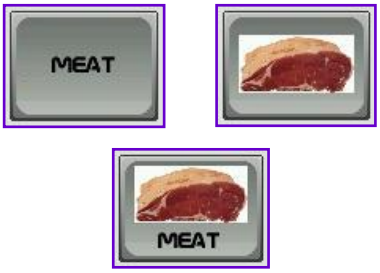
3

ASSIGN. Press to assign the section to the key.
DELETE. Press to delete the key of the assigned section.

*****

We can select a direct key (*Step 1*) and press Other sections.
That way, if we press that section key on sales screen, it will show the articles that belong to sections that do not have an own key assigned.

It is possible to select images, texts or both to identify the sections.



At least one of the options (images or texts) must be selected.

STYLE: Once a style is select it will be applied to all the keys. The selected style will be highlighted in yellow.

Button double height

DOUBLE HEIGHT. If this option is enabled the section keys will be shown with double height. This option is disabled for *Receipt-2* working mode.

< 6 > Max. Keys / row

It is possible to select the maximum section keys per row (max. 10) for *Receipt-1* and *Label* working modes.

Only 1 row

If we activate this parameter, only one row of section keys will be shown. If there is not enough space to show them all (we have assigned more sections that the maximum per row), two keys will be enabled to navigate through section keys.

Use images instead of buttons

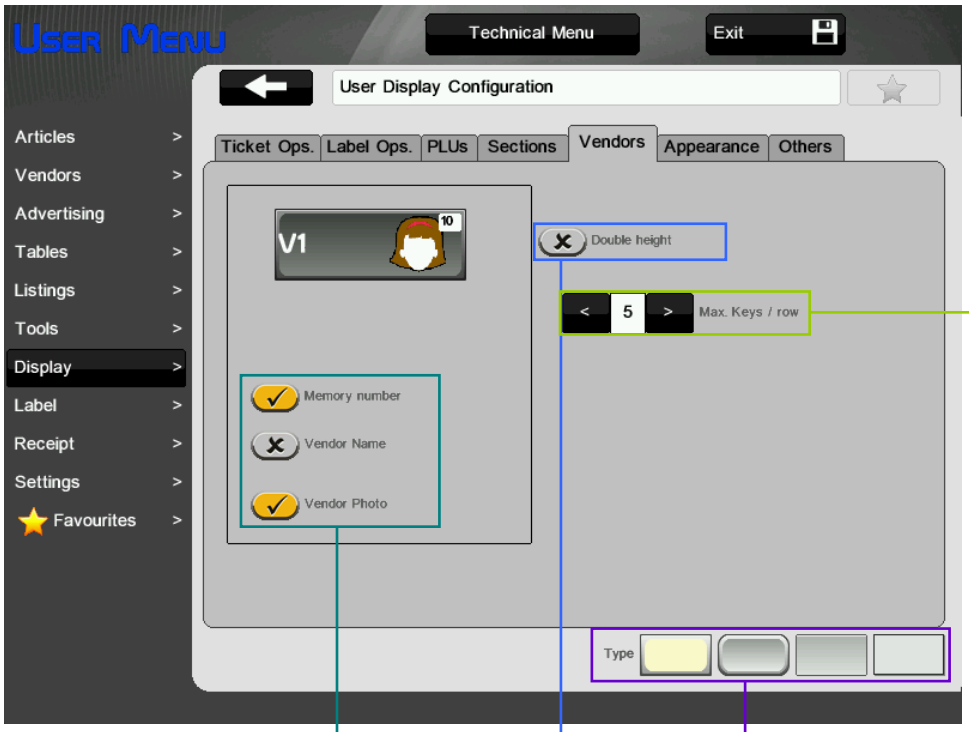
This setting is only enabled if you have selected a self-service mode.
It means the section button is only the image selected.

It is not allowed to program more than one direct keys for the same section. If you program a section that is already assigned, it will be de-assigned from the prior key.

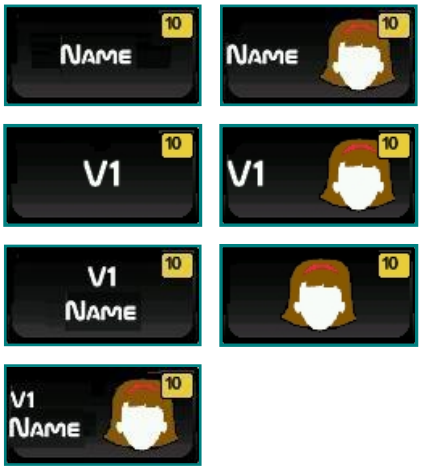
If we try to program more section keys than the allowed for that working mode, the scale will show the message "*No space on screen*".

3.7.1.5 Vendors

This menu allows to customize the vendor keys to show: number of memory, vendor's name or vendor picture.



MEMORY NUMBER, VENDOR NAME or VENDOR PHOTO.
Selecting these options the vendor key will show the different options.



At least one of the three options must be selected.

DOUBLE HEIGHT.
If this option is enabled the vendor keys will be shown with double height.
When configuring vendor keys for *Receipt-2* working mode, this option will be disabled.

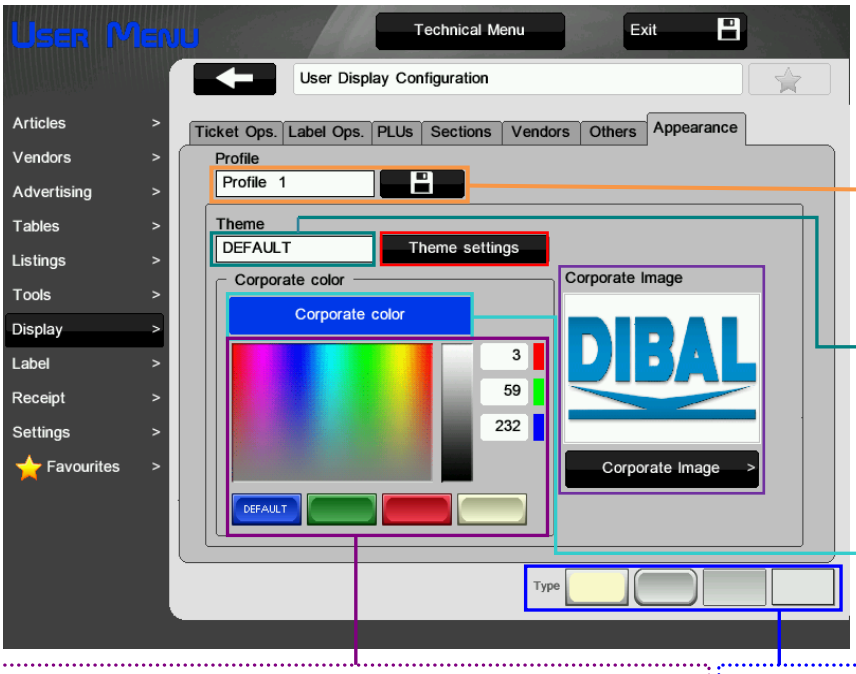
It is possible to select the maximum vendor keys per row (max. 10) for *Receipt-1* and *Label* working modes.

Once a style is select it will be applied to all the keys. The selected style will be highlighted in yellow.

3.7.1.6 Appearance

You could select one of the existing themes or modify it to your liking.

❗ Some of self-service screen buttons may be displayed wrong if the theme 1 is selected due to the button will be the image of the articles. It is recommended to use default theme.



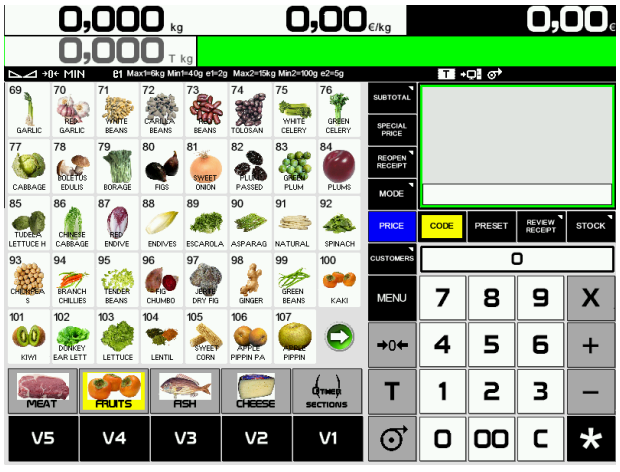
There are different profiles selectable (10 editable and one by default). In each profile you can save different themes, image and corporative colour. Press to save changes.

Press to select the theme. By default the scale has two themes, the default theme and theme 1.

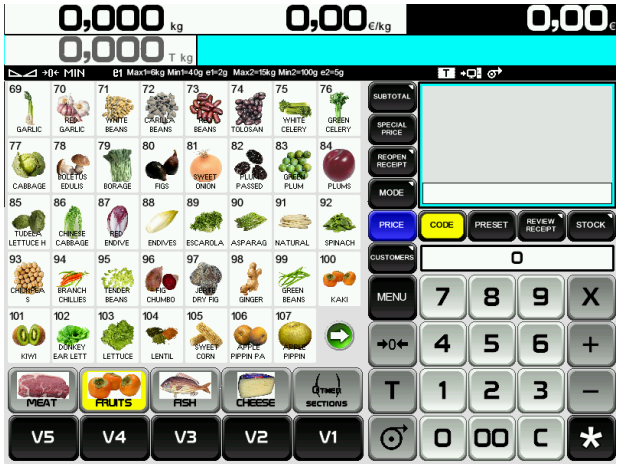
Shows generated or selected colour.

In this section, you can choose the corporate colour for the scale. You can create the colour you wish by modifying the components of the red, green and blue. You can also go through the shades to select a colour and to select the brightness.
Another option is to select one of the pre-set colours.

Select the style for the buttons of the main screen.



Example

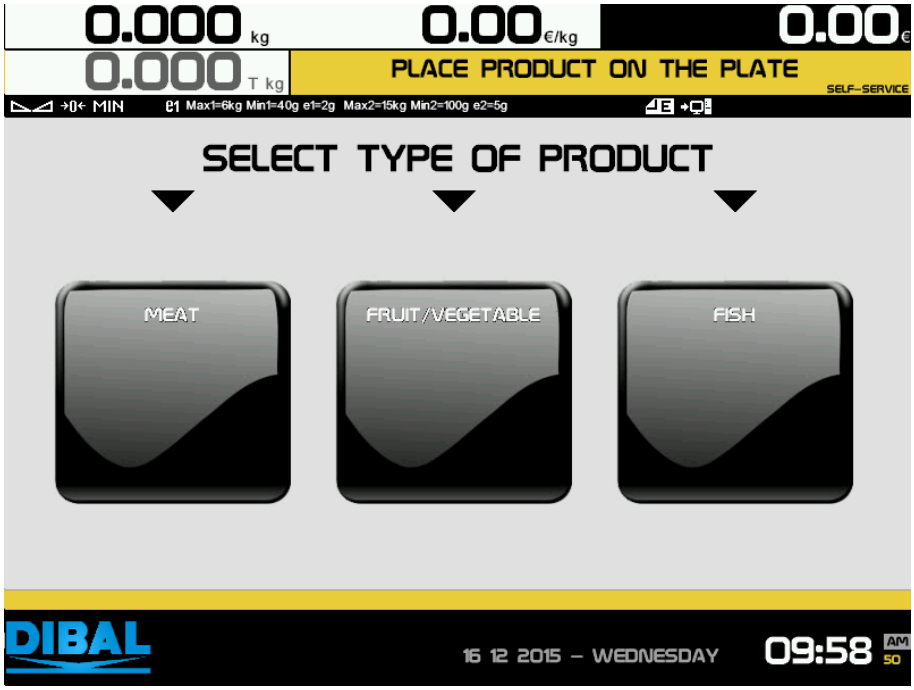


3.7.1.6.1 Theme

The scale has several selectable themes, which only modify self-service modes and certain visual aspects of the different screens. As a result, the instructions outlined below should be taken into account. For each theme, a possible design is shown:

Theme 1

- Self-service mode 1: the section keys in the start screen will be made up directly by the section image which must be in dark tones as the text is superimposed in white.
- Self-service mode 2 the section keys in the start screen will be made up directly by the section image which must be in dark tones as the text is superimposed in white.

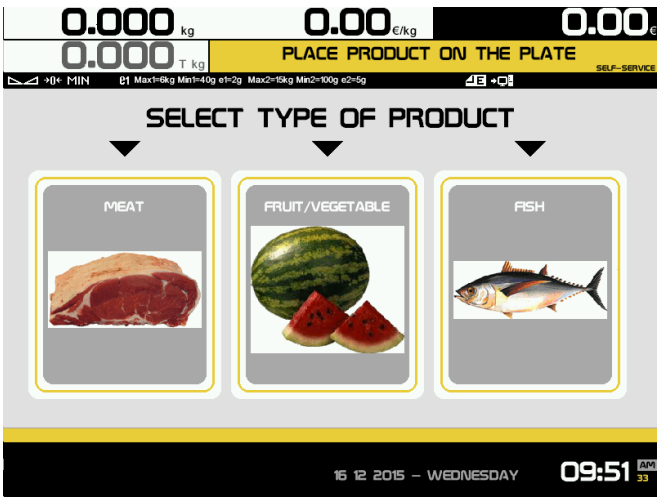


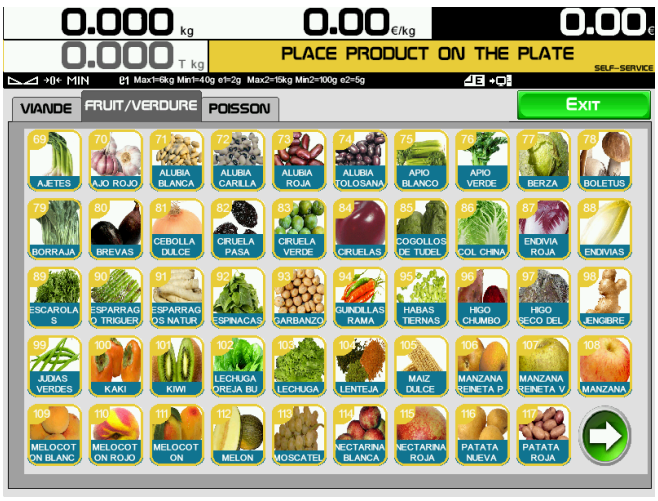
Theme 2

- Not available.

Theme 3

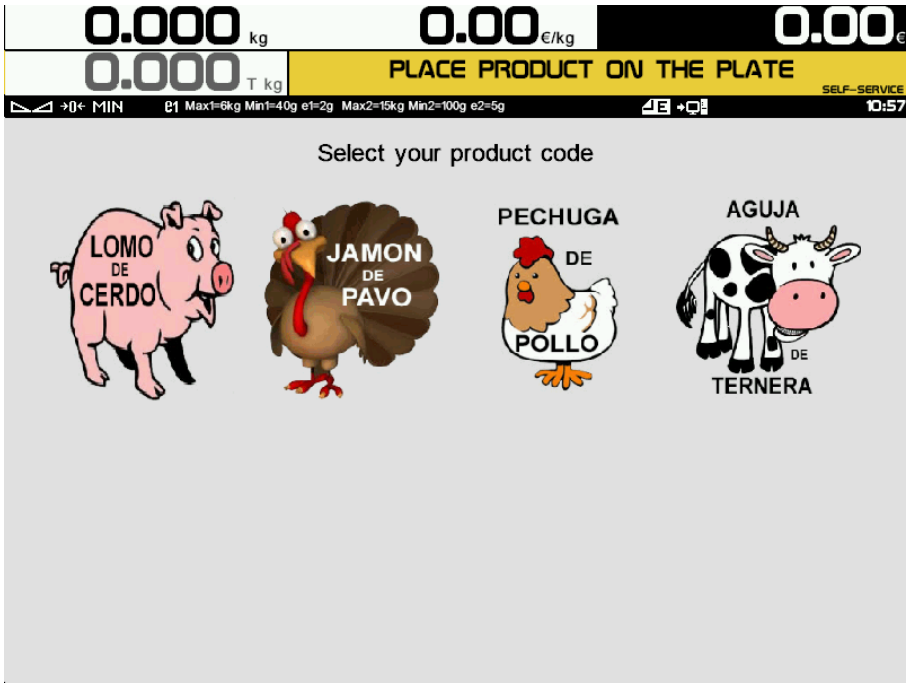
- It modifies the design of the buttons but no special step is required.





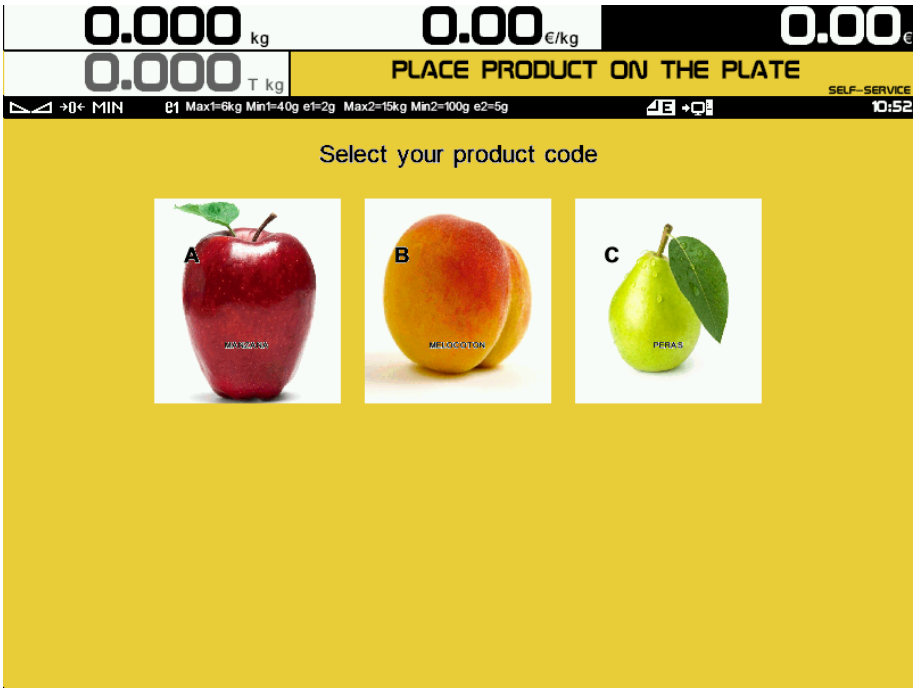
Theme 4

- It gives the user the freedom to design the buttons for the article. The article key will be taken up exclusively by the image of the article. The scale does not include the article's name or key number in this article key.



Theme 5

- This theme is designed to be used when there are few items and large images of the article (consult technical manual to activate this setting).
- The key is made up of a large image of the article, together with the name and a direct access letter (1=A, 2=B … etc.).
- The background will be the selected corporate colour.



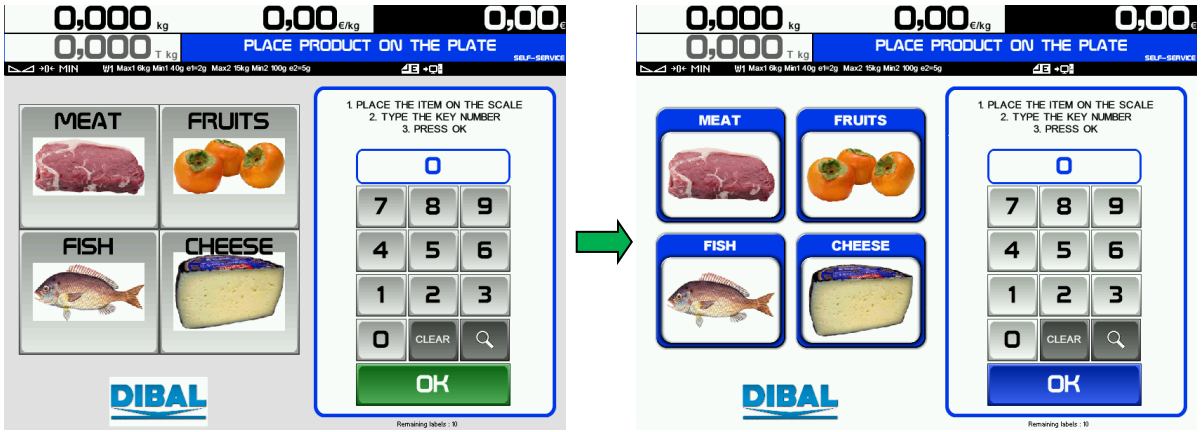
Theme 6

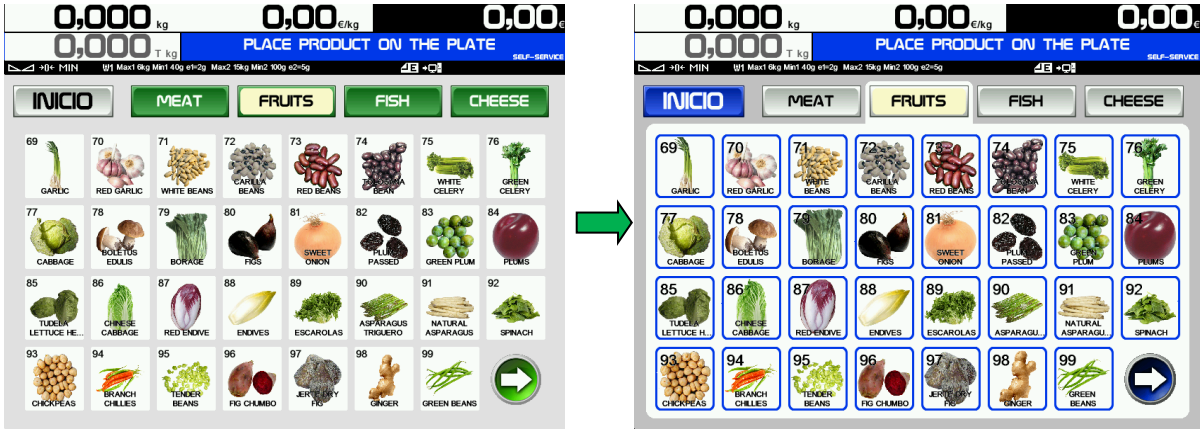
This them is for making changes in the section keys and PLU keys.

- In the PLU keys, a box in the corporate colour is added to each PLU key. The size of the key is also increased.

- In the section keys, the key is framed and the upper part of the frame the name of the section is added in one line. This frame is in the corporate colour.

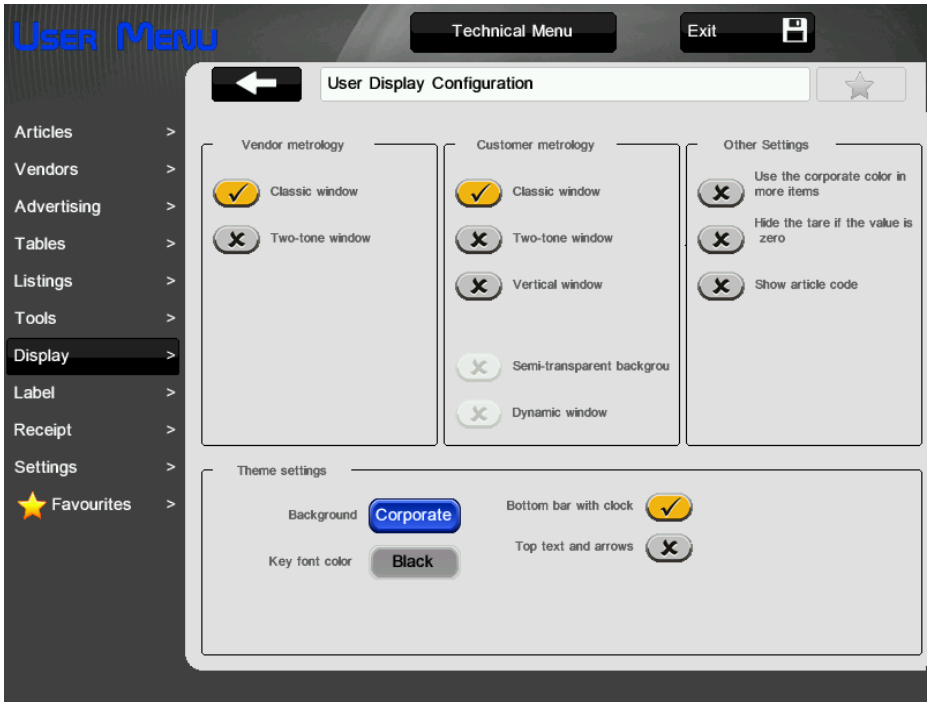
In the following images, you can see an example of the changes when the self-service mode 6 is applied to theme 6.





3.7.1.6.2 Theme settings

In this menu, there are several settings for configuring the aspect of the metrological area of the buyer screen and the cashier screen.



Classic window | Two-tone window | Vertical window

Use these selectors to select the type of metrological window you require. If you select one of them, the other is automatically unselected.

Apart from changing the design, the vertical window is arranged differently. When selecting this type of window, the semi-transparent and dynamic window are enabled.

The colour of the window is the same as that configured as corporate colour.

An example of these screens is given below.

Ventana clásica

Ventana bitono

Ventana vertical

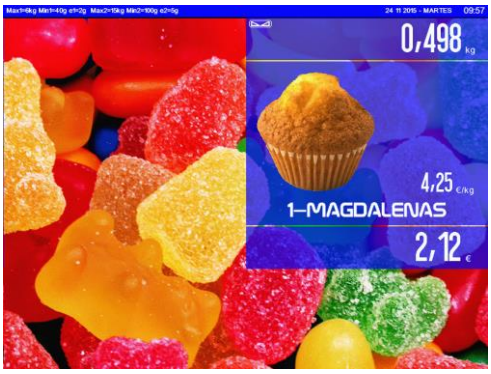
The design of the two-tone window and vertical window is available in 7” displays.

Semi-transparent backgrou

If you select this option, the vertical weight window allows you to see the screen background through it. Otherwise, the window is totally opaque.

Ventana opaca

Ventana semi-transparente

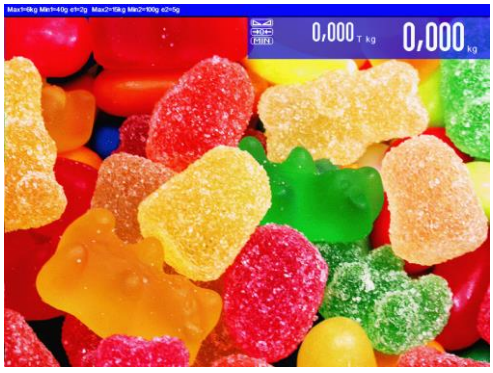


Dynamic window

With this setting enabled, the vertical window shows only the relevant information at all times, while non-relevant parts are hidden, in order to maximise the view of the background image. For example, if an item has not been called up, only the metrological data will display.

Ventana estática

Ventana dinámica



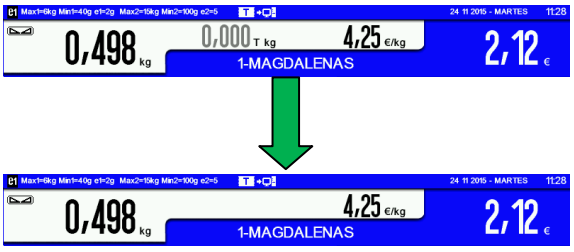
Use the corporate color in more items

Enable this setting to extend use of the corporate colour to the following elements:

- Effects of pressing the buttons.
- Current section on the assisted sales screens.
- Selected columns in the lists.
- Check buttons of the Yes/No settings.
- Colour of the timer when entering menu from countdown.

Hide the tare if the value is zero

Use this setting to hide the tare in any of the weight Windows, provided its value is 0.



Subject settings:

Use these settings to personalise a series of self-service mode settings.

Background Corporate

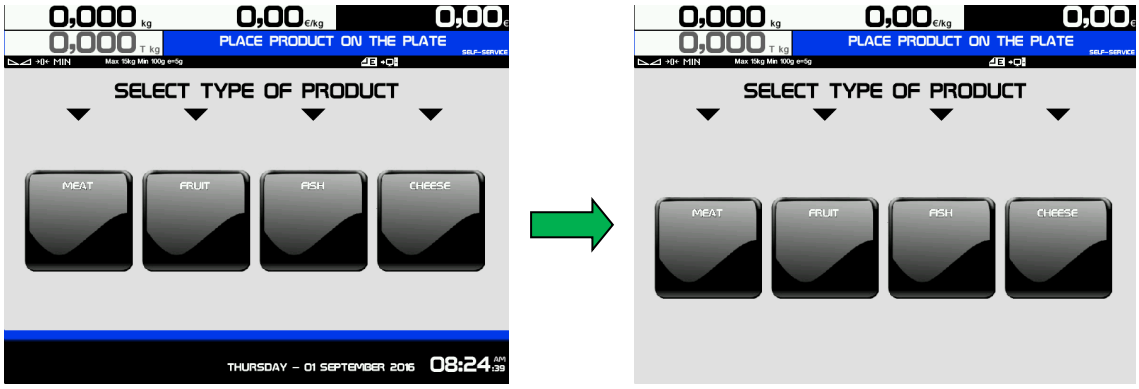
Use this setting to vary the background colour in self-service modes 1, 2, 5 and 6.
You can choose from white, grey or the corporate colour.

Key font color Black

With this setting you can vary the colour of the letters on the buttons.
This setting will only be enabled in self-service mode 1 without sections and in self-service mode 2.
You can choose between black and white for the font colour.

Bottom bar with clock ✓

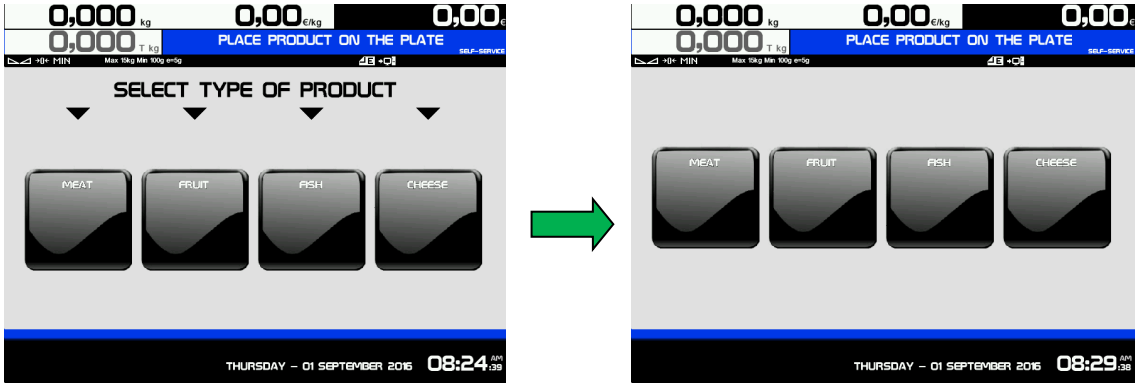
Use this setting to show or conceal the lower bar where the clock and date are displayed.



This setting is only enabled in self-service modes 1 and 2.

Top text and arrows ✓

Use this setting to show or conceal the text indicating the product and arrows.



This setting is only enabled in self-service modes 1 and 2.

3.7.1.6.3 Corporate image

It is possible to select a corporate image which will be shown:

At the start-up screen after switching the scale on.

At the start-up countdown menu, after the start-up screen.

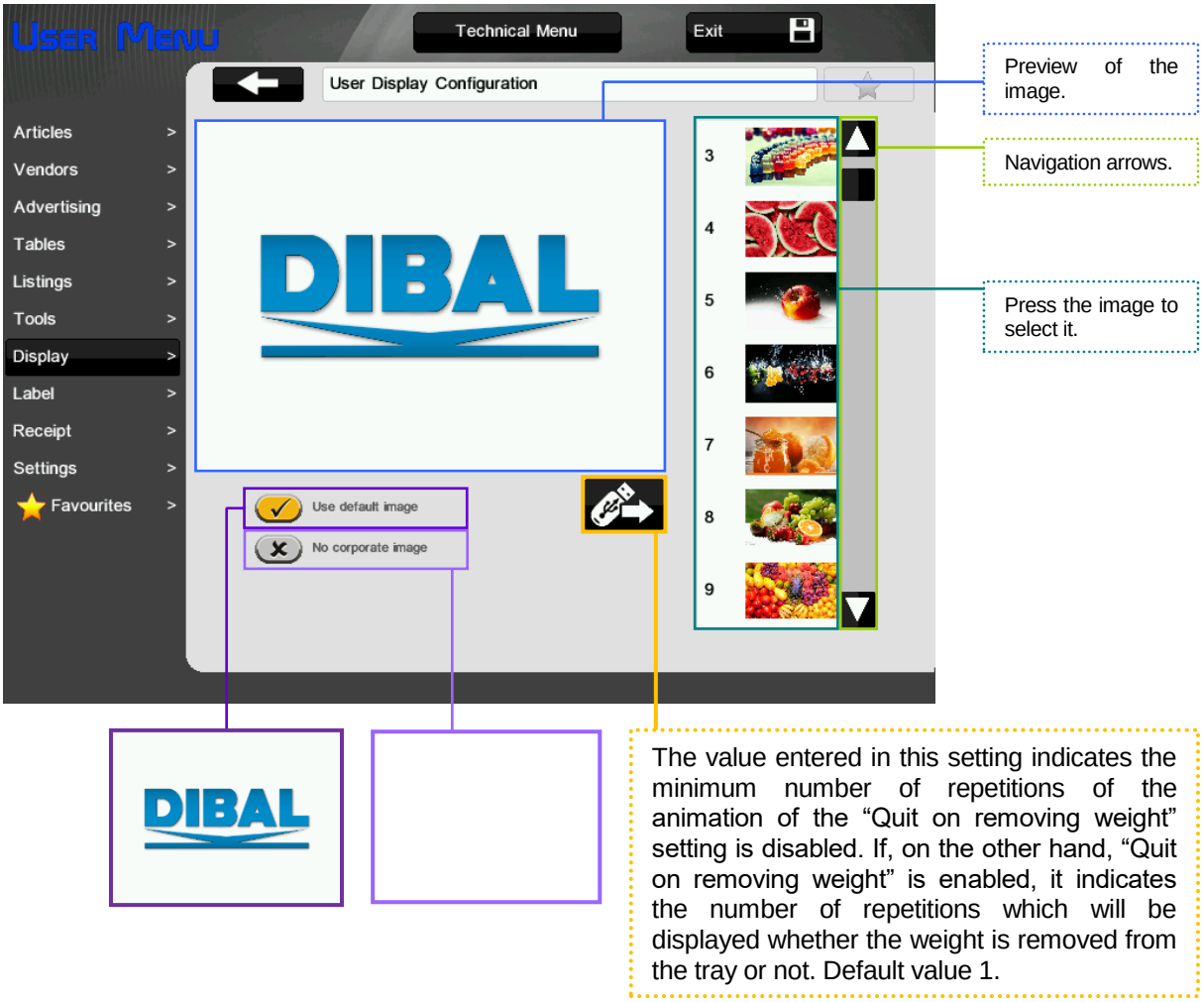
On Self-Service-3 working mode..

On the detailed receipt review screen.

As desktop image (attenuated) in the User´s Menu and Technical Menu.

On the rear display while in a menu or no advertising has been enabled.

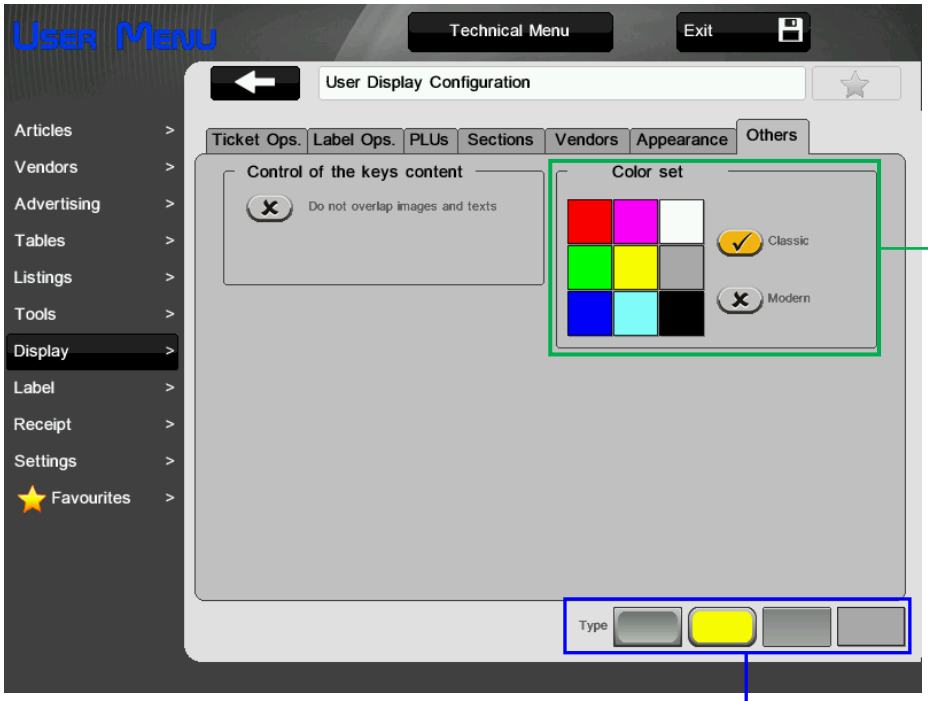
In the Corporate Image submenu, the scale will show the programmed images in order to choose the desired image. It is also possible to use the Default Corporate Image or not use any Corporate Image.



The images to be used as corporate image must be loaded in the scale as advertising images (see paragraph ***6.1.2 Loading of Advertising Images***).

3.7.1.7 Others

You can set up different screen settings with this tab.



Use this setting to select from two sets of colours.

These colours are available for the keys.

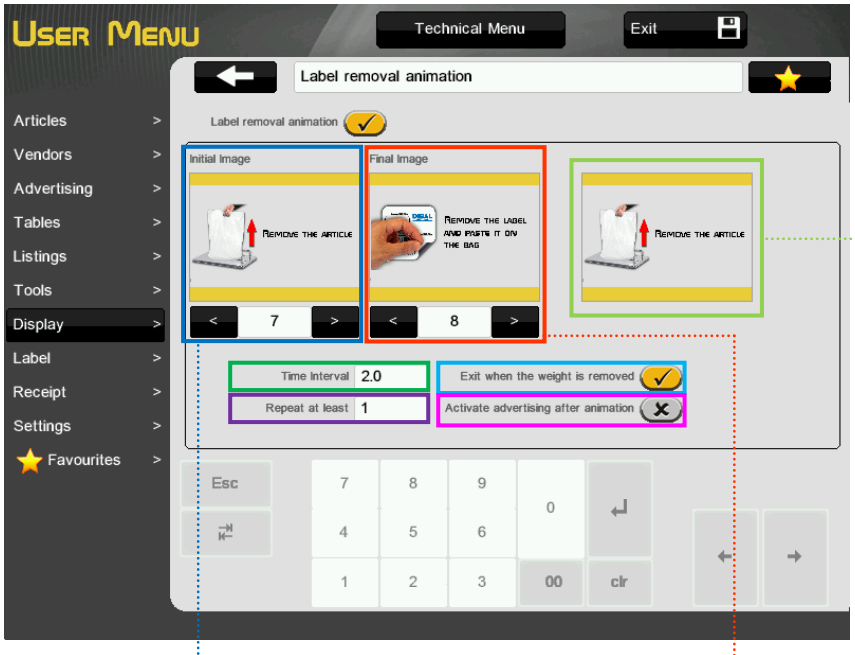
With this setting, you can adjust the text to the upper part of the key so that it is not superimposed on the image of the item or the section.

Once a style is selected, all the keys will change to the chosen style. The chosen style will be highlighted in yellow.

3.7.2 Label removal animation

An animation can be designed in this menu for display when selling in label mode. Just tick the Label removal animation option.

Once this setting is enabled, a screen is enabled in which the animation can be configured.



It displays an animation of the series of images between the image defined as "Initial image" and "Final image".

Initial image of the sequence. By pressing on the < > keys, you go through the images of the scale. You can also enter the image number. Just press on the box representing the number of the current image.

Final image of the sequence. By pressing on the < > keys, you go through the images of the scale. You can also enter the image number. Just press on the box representing the number of the current image.

Time Interval 2.0

You must enter the time you wish to display each image of the sequence. Default value 1.0.

Exit when the weight is removed

This setting indicates if you wish to keep the animation on until the product is removed from the pan (take into account the minimum number of repetitions).

Repeat at least 1

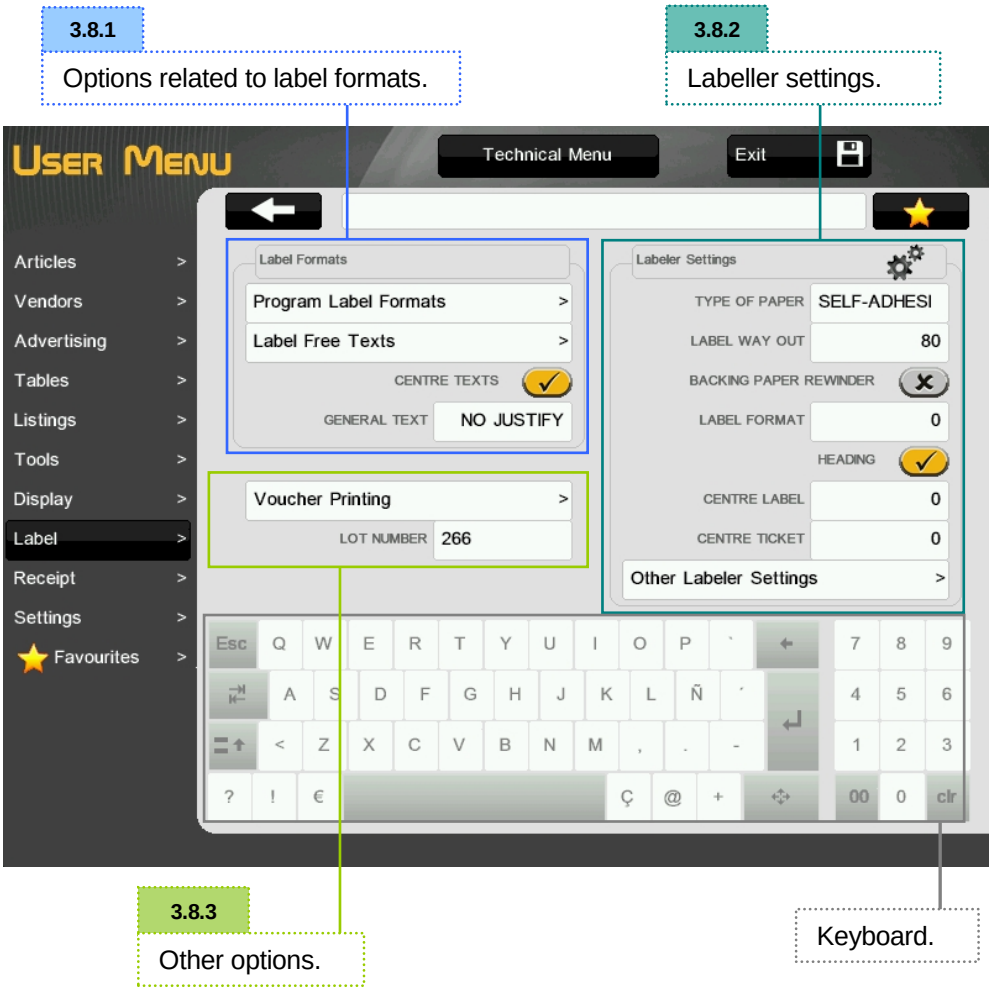
The value entered in this setting indicates the minimum number of repetitions of the animation of the "Quit on removing weight" setting is disabled. If, on the other hand, "Quit on removing weight" is enabled, it indicates the number of repetitions which will be displayed whether the weight is removed from the tray or not. Default value 1.

Activate advertising after animation

This setting indicates if you wish to enable advertising once the animation has finalised.

3.8 LABEL

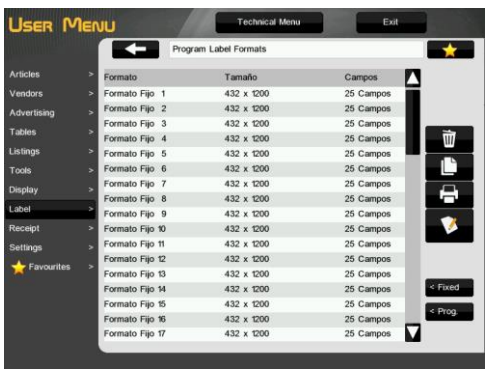
This is the menu to program all the configuration and programming parameters related to labels.



3.8.1 Label Formats

3.8.1.1 Program Label Formats

In version 106P it is not possible to program label formats in the scale. Label formats must be programmed with DLD.



3.8.1.2 Label Free Texts (Label Header Lines)

It is possible to program a maximum of 100 Free Label Texts (also known as Label Heading Lines) with a maximum of 52 characters, depending on the Font selected.

Deletion of the selected text

Print the complete list of free texts

Copy the selected text. Once copied, select the destination text and press Paste.

Edit the selected free text.

3.8.1.3 Centre texts

With this parameter you can set the scale to automatically centre the lines of text of the different label formats. Depending on the size of the label and the length of the lines, the scale may change the size of the characters of the text so that text fits into one line.

3.8.1.4 General text

This parameter defines the way of printing in labels of the Text G (1024 characters) of the article.

The parameter has the following values:

'NO JUSTIFY' – It does not justify the text to the right.

'JUSTIFY' – It justifies the text to the right.

'IT DOES NOT JUSTIFY AND SEPARATES WORDS' – It does not justify the text and it separates words.

'IT JUSTIFIES AND SEPARATES WORDS' – It justifies the text and it separates words.

3.8.2 Labeler Settings

3.8.2.1 Type of Paper

With this parameter, you choose the type of paper with which the label printer is going to work, that is:

'0 – SELF-ADHESIVE LABEL PAPER'

'1 – CONTINUOUS PAPER WITHOUT COLLECTOR'

'2 – CONTINUOUS PAPER WITH COLLECTOR'

'3 – LINERLESS' (see *Linerless Appendix*)

3.8.2.2 Label Way Out (Exit Distance)

With this parameter you can adjust the printout of the label so that on printing, it does not remain inside the printer and can be easily removed. To change the value of this parameter:

Enter the printout distance as a number between 0 and 100 (in general, 80 is an acceptable value).

3.8.2.3 Backing Paper Rewinder

This parameter enables the backpaper label rewinder motor.

Enabled ✓ **–** Backpaper label rewinder enabled.

Disabled ✗ **–** Backpaper label rewinder disabled.

3.8.2.4 Label Format

With this parameter, whose value goes from 0 to 60, you can decide in which format by default the labels will be printed, in such a way that if it is set at:

'**0**' ⇒ Then the label will be printed in the format assigned to each article.

> ❗ If the PLU label format field has been assigned an '**0**' then the printing format will by default be '**1**'.

From '**1**' to '**20**' ⇒ then the format in which all article labels will be printed will be the one selected from among the existing pre-designed ones, regardless of the one assigned to each PLU when creating the articles.

From '**21**' to 6**0***' ⇒ then the format in which all article labels will be printed will be one of those designed, regardless of that assigned to each PLU at the creation stage of the articles.

3.8.2.5 Heading

This parameter affects the printing mode of the labels, and can have a value of between 0 and 1 with the meanings:

Activado ✓ - The label moves backwards and the heading area is printed.

Desactivado ✗ - The label does not move backwards and the heading area of the label is not printed.

> ❗ When you change the output distance, the way that the fields take place changes too, so this may be a problem. And, the same programmed label within/out a backward movement, it is printed differently.

3.8.2.6 Vertical centre

By changing the value of this setting you can move the label's printing field vertically downwards, with very little variation. A value between 0 and 40 can be programmed. It can be programmed at a value between 0 and 40.

3.8.2.7 Horizontal centre

Adjusting the value of this parameter is possible to shift the beginning of the printing of the receipt. When it is printed in the labeler. It is possible to program a value from 0 to 40.

3.8.2.8 Other labeler settings

3.8.2.8.1 Contrast

The value of this parameter (from 0 to 9) is in direct proportion to the contrast with which the labels will be printed.

Enter the value of the contrast as a number between 0 and 9 (default value 5).

3.8.2.8.2 Opto-Thermal Head Distance

By varying the value of this parameter you can centre the printing field of the labels in a vertical sense both upwards and downwards achieving greater efficacy than with the previous CENTRE LABEL parameter.

You can enter a value between 0 and 99 (by default 32).

3.8.2.8.3 Label speed

It determines the printing speed for labels. The greater the value, the higher the printing speed. The value 0 indicates the maximum speed.

3.8.2.8.4 Label Opto Calibration

This menu allows to make an automatic calibration of the opto labels detector.

3.8.2.8.5 Allow Label Mode

This option allows to define the label working mode of the scale.

'ALLOWED' – It enables you to work in label mode. (Default value)

'DISALLOWED' – It does not enable you to work in label mode.

'OBLIGATORY' – It obliges you to work in label mode.

'IT OBLIGES. WITH ACCUMULATION OF TOTALS PER ARTICLE' – It obliges you to work in label mode with accumulation of totals per article. The bar code on the totals label is the one selected in the set-up menu for printing.

3.8.2.8.6 Adhesive Paper

With this parameter you decide on what kind of paper the cash register chit (register voucher) and the label are to be printed. It is normally applicable to scales with two printers: The possible values are:

'0 – CASH REGISTER CHIT AND LABEL ON SELF-ADHESIVE PAPER'
'1 – CASH REGISTER CHIT ON FANFOLD PAPER, LABEL ON SELF-ADHESIVE PAPER'
'2 – CASH REGISTER CHIT ON SELF-ADHESIVE PAPER, LABEL ON FANHOLD PAPER'
'3 – CASH REGISTER CHIT AND LABEL ON FANHOLD PAPER'

3.8.2.8.7 Label Accumulation

This parameter is for determining whether the labels issued are accumulated.

'NOT ACCUMULATE COPIES OF LABELS' – Normal operation: each label is accumulated in sales totals. Copies of labels cannot be accumulated in sales totals.

'NOT ACCUMULATE LABELS NEITHER COPIES OF LABELS' – All labels that are printed are NOT accumulated in sales. If the client's number appears, it will show 0 and the receipt number will not increase. Copies of labels cannot be accumulated in sales totals

'ACCUMULATE LABELS AND COPIES OF LABELS' – Normal operation: each label is accumulated in sales totals. Copies of labels can be accumulated in sales totals.

3.8.2.8.8 Format for Total Label Level 1

The value of this parameter indicates the format with which the level 1 total labels are to be printed. If the value is 0, the format of the labels that have been issued will be used.

3.8.2.8.9 Format for Total Label Level 2

The value of this parameter indicates the format with which the level 2 total labels are to be printed. If the value is 0, the format of the labels that have been issued will be used.

3.8.2.8.10 Format for Total Label Level 3

The value of this parameter indicates the format with which the level 3 total labels are to be printed. If the value is 0, the format of the labels that have been issued will be used.

3.8.2.8.11 EAN Format Total Labels Level 1

Here, the EAN format of the level 1 totals label is selected if you wish to work with accumulated total labels for an article (see ***paragraph 3.6.4.3.3 Levels deletion***).
If this parameter is set to 0, the format of the labeled article will be printed (see ***paragraph 3.8.2.15 EAN 13 Label Format)***.

3.8.2.8.12 EAN Format Total Labels Level 2

Here, the EAN format of the level 2 totals label is selected.
If this parameter is set to 0, the format of the labeled article will be printed.

3.8.2.8.13 EAN Format Total Labels Level 3

Here, the EAN format of the level 3 totals label is selected.
If this parameter is set to 0, the format of the labeled article will be printed.

3.8.2.8.14 Barcode in Label

This is to inform the scale if it is to issue a bar code, and when it is to do so:

'NO' – No bar codes.

'YES WITH AMNT ≥ 0' – Bar code on the receipt when the total is positive. (Default value)

'YES IF AMNT ≤ 0' – Bar code always, with the total value positive. If the total is negative a zero appears in the field on the barcode. No bar code.

'YES – ABS AMOUNT' – Bar code always, with the absolute value of the amount being written in

3.8.2.8.15 Interpretation Line

This parameter is for setting up the read-out line of the bar code. The possible values are:

'NO CODEBAR' – If the amount exceeds the limit(999.99€), the barcode is neither printed on the receipt nor on the label.

'INTERPRET LIN' – If the amount exceeds the limit (999, 99 €), the read-out line is neither printed on the receipt nor on the label, but the read-out line will still be printed.

> ❗ When it is working with the default bar code o with bar code defined by the user, with just 5 positions to indicate the total amount (Ex. 2AABBBB**EEEEE**), the maximum amount that can be show is 999,99. In the case of having more digits, the read-out line parameter has effect when it is not possible to show the amount in the bar code. (Ex having a bar code 2AABB**EEEEEE**, it can be shown till 9999,99)

3.8.2.8.16 EAN 13 Label Format

With this parameter you can determine if the bar code is to be printed on both the receipt and the label:

'DEFAULT' -Format by default of the bar code. (Default value)

'F.81' - Special format in label mode.

'FORMAT ARTICLE' -Special format in the field FTO EAN for the article.

'ARTICLE' -Special format in the field EAN for the article.

'SECTION' -in the field EAN for the section

Default formats are automatically generated by the scale while the special formats are those defined by the user in configuration parameters (EAN 13 LABEL).

The configuration parameter EAN 13 Label is the special bar code that is printed in the label. It is an alphanumeric text with 12 positions. They must be programmed like the text for headers and the name of the article. The numbers are symbolized directly on the bar code, and the meaning of the different letters is shown ***table 3-2*** below. The default bar code for the receipt and label is: '2AABBBBEEEEE'.

Code	Representation on the bar code	Code	Representation on the bar code
A	Group Number	**Q**	Control check
B	Customer Number	**R**	Weight with 2 decimals
C	Article Code	**T**	Tare
D	Employee code	**V**	Animal number of the transaction
E	Total amount of receipt	**W**	Label format number
F	Sign of the amount	**X**	Price (on scanner)
G	Number of articles	**Y**	Section currency amount
H	Weight	**d**	Number of decimal of the weight
I	Type of VAT	**w**	Units of the weight
K	Section	**y**	Amount divided by 10
M	Equipment number	**z**	Amount divided by 100
N	Ticket number		

Table 3-2

3.8.2.8.17 EAN 128 Format

This parameter allows you to control EAN 128 Format:

'0' – Global EAN128.

'1' – Section EAN128.

'2' – Article EAN128.

When Section EAN128 or Article EAN128 are selected and they are not programmed, the Golal EAN128 will be printed. If Global EAN128 is not programmed the scale will not print any barcode.

> ❗ The field to print EAN/CODE 128 in label is field number 54.

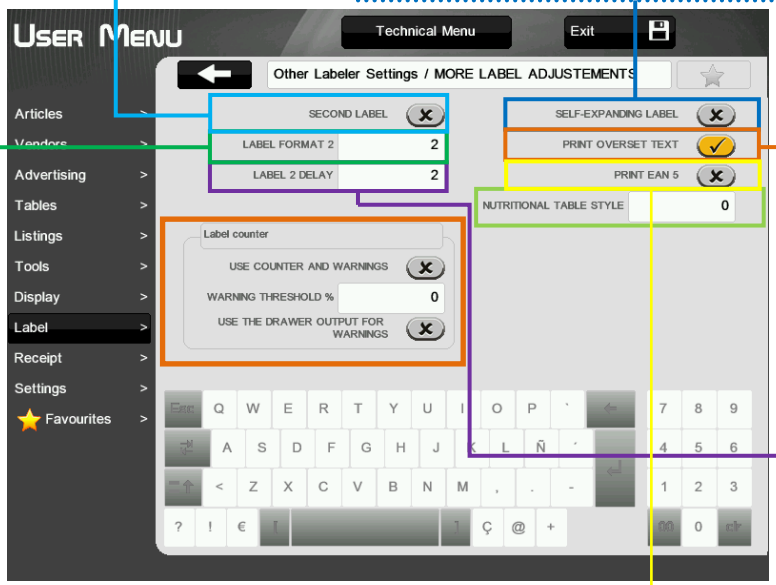
3.8.2.8.18 More label adjustments

In this screen we configured the second label. Select the second label if you want to print it. Next you have to select the second label format and the delay between the first and the second label.

Second label format

Tick to print the second label.

Use this setting to adapt the length of the label to the length of the G text. The fields situated under the G text will be moved as required. The total length of the label can in no case be greater than the set limit, 150mm. This setting is only effective for continuous paper, linerless paper and adhesive continuous paper (paper types 1,2,3).



If the self-extending label setting is disabled, the G text may overlap with other fields if it is very long.
If the setting is disabled, when the G text reaches the position of the next field, the latter will not be printed, and the space of the previous field is respected.

Select the delay between the first and the second label. If you select 0 for delay, when the scale has been printed the first label a message will be displayed asking to touch the screen to print the second label.

Allows to select whether to attach an EAN5 to EAN13 on labels. It is only valid for articles with an expiration date and using programmable formats.

NUTRITIONAL TABLE STYLE 0

Use this setting to select the style for printing the nutritional values table. The corresponding style number must be specified.

Style 0

Información nutricional por	100 g
Valor energético	120Kcal
Grasas	10,6 g
Ácidos Grasos no saturados	1,3 g
Carbohidratos	5,2 g
Azucares	5,2 g
Proteínas	0,3 g
Sal	0,65 g

Style 1

Información nutricional por	100 g
Valor energético	120Kcal
Grasas	10,6 g
Ácidos Grasos no saturados	1,3 g
Carbohidratos	5,2 g
Azucares	5,2 g
Proteínas	0,3 g
Sal	0,65 g

Style 2

Información nutricional por	**100 g**
Valor energético	120Kcal
Grasas	**10,6 g**
Ácidos Grasos no saturados	1,3 g
Carbohidratos	**5,2 g**
Azucares	5,2 g
Proteínas	**0,3 g**
Sal	0,65 g

Style 3

Información nutricional por	100 g
Valor energético	120Kcal
Grasas	10,6 g
Ácidos Grasos no saturados	1,3 g
Carbohidratos	5,2 g
Azucares	5,2 g
Proteínas	0,3 g
Sal	0,65 g

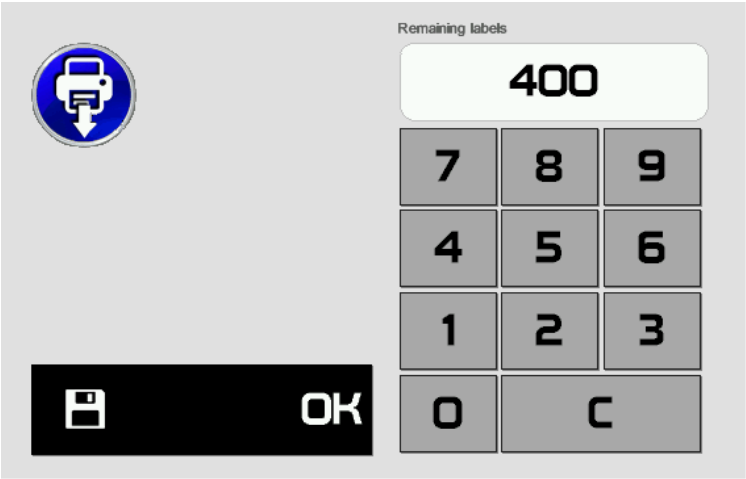
Style 4

Información nutricional por	100 g
Valor energético	120Kcal
Grasas	10,6 g
Ácidos Grasos no saturados	1,3 g
Carbohidratos	5,2 g
Azucares	5,2 g
Proteínas	0,3 g
Sal	0,65 g

Label counter

- **USE COUNTER AND ALERTS**: it enables or disables the counter and alerts function.
- **% LIMIT WARNING**: When fewer labels than the percentage indicated remain in the tray, a warning will show on the display
- **USE CASH DRAWER DEBIT FOR ALERTS**: If it is enabled, the cash drawer debit will be used for sending the warning signal. When it is below the threshold value, a slow intermittent signal will be sent (1 beep every two seconds) through the cash drawer. **When the labelling machine's optical sensing detects the lack of paper, a rapid intermittent signal will be sent (3 beeps per second).**

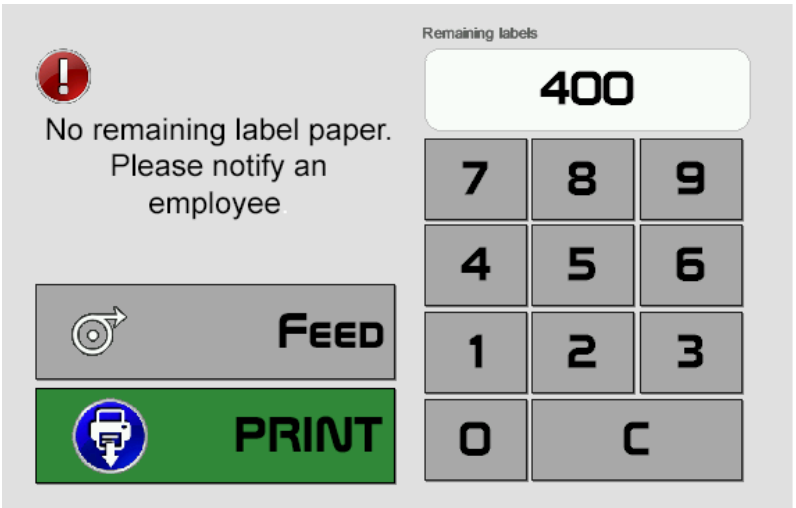
When the function is enabled with the "USE COUNTER AND ALERTS" setting, the initial number of labels in the tray will be requested:



Operation

One unit will be discounted for every label printed. When the number of labels remaining is equal or less than the **% LIMIT WARNING,** a warning will be displayed for every label printed, while a beep will be emitted every two seconds through the cash drawer, if the USE **DRAWER DEBT FOR OPTICAL WARNINGS**.

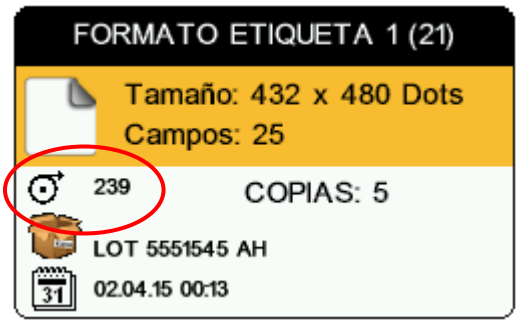
If lack of paper is detected, the scale will not allow the labels to be printed and the screen below will show. The frequency of the beep is also increased (3 beeps per second) provided the cash drawer debit is enabled for warnings:



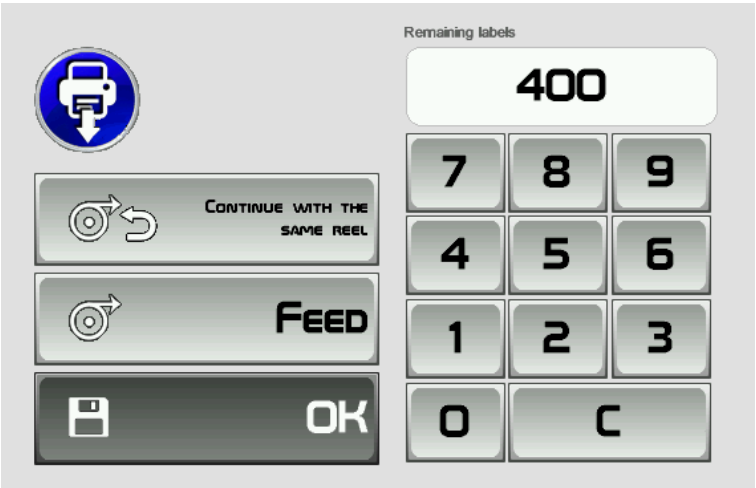
By default, the last number of labels edited will display.

If the counter is enabled, the number of remaining labels will display on the following screens:

- **Self-service mode 1**: On the lower left-hand side of the sections screen.
- **Self-service mode 2** without tares: on the lower left-hand side of the items screen.
- **Self-service mode 2** with tares: on the lower left-hand side of the tare preselection screen.
- **Self-service mode 3 and 4**: on the lower left-hand side of the screen.
- **Self-service mode 5**: on the lower left-hand side of the sections and direct code screen.
- **Self-service mode 6**: on the lower right-hand side of the screen.
- **Assisted label mode**: in the label data summary window:



When the scale is in Label or Self-service mode and the label counter is enabled, and the roll is removed manually while a label is not being printed, when the paper is detected again, the following label counter start up screen will display:

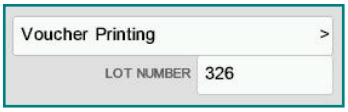


If the number of remaining labels is above the warning level when the label tray is removed, the default value will be the number of remaining labels of the same roll. If, on the contrary, when the label tray is removed, the number of remaining labels is below the warning level, the default value will be the last number of labels edited (new roll).

If you wish to continue using the same roll, you can press the

button to regain the previous counter (old roll).

3.8.3 Other Settings



3.8.3.1 Voucher Printing

3.8.3.1.1 Voucher

With this option the user decides on the need for, and aspect of, a voucher with the receipt.

Enter one of the following values:

'0 - NO' – Without voucher.

'1 – YES. BAR CODE ON THE RECEIPT' – With voucher and bar code on the receipt (but not in the voucher)

'2 – YES. BAR CODE ON THE VOUCHER' – With voucher and bar code on the voucher and not on the receipt. (Default value)

'3 – YES. BAR CODE ON THE VOUCHER AND ON THE RECEIPT' – With voucher and bar code on the voucher and on the receipt.

3.8.3.1.2 Voucher Time

This parameter is used to set up the time, in seconds, the voucher takes to be printed after the receipt is printed.

Enter one of the following values:

'0 – 10 s. LATER. INTERRUPTIBLE' – The voucher is printed 10 seconds later, or sooner if you press (if it is printed by the same printer as the receipt).

'1 to 9 – INMEDIATELY. NR OF LINES FOR GAP.' – The voucher is printed immediately after the receipt, with a gap in time between both depending on the value programmed.

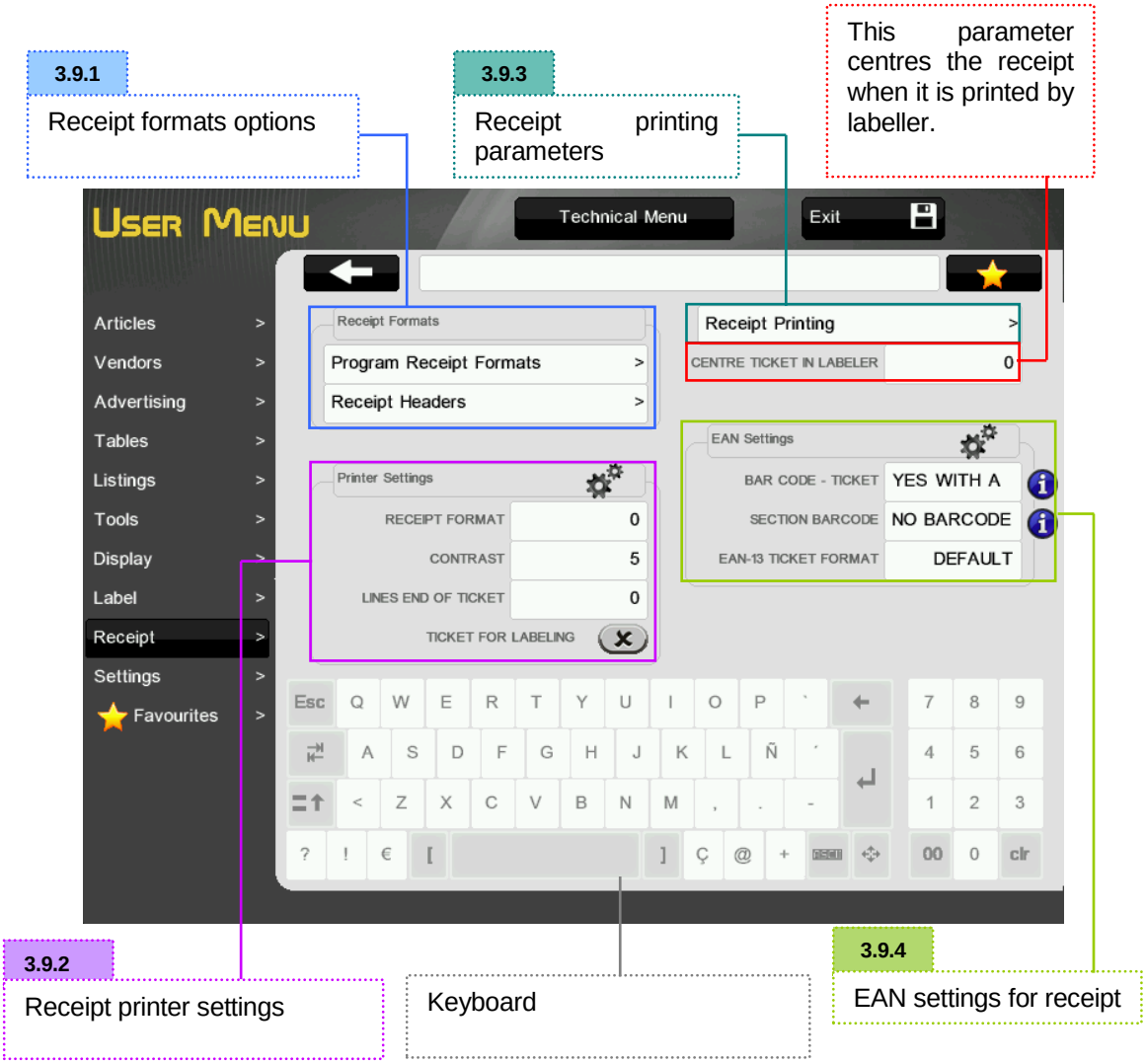
3.8.3.2 Batch Number

In D-900 scales it is possible to program a batch number, which can be alphanumeric with a maximum of 24 characters digits, in which a global reference to labels of articles may be assigned when the scales are in label mode.

By default this value will be the number of days passed from the beginning of the year, for example batch number 252 will correspond to day 9/9.

3.9 RECEIPT

This menu allows to program the parameters used for the receipt printing and the receipt format. The programming structure is the following:

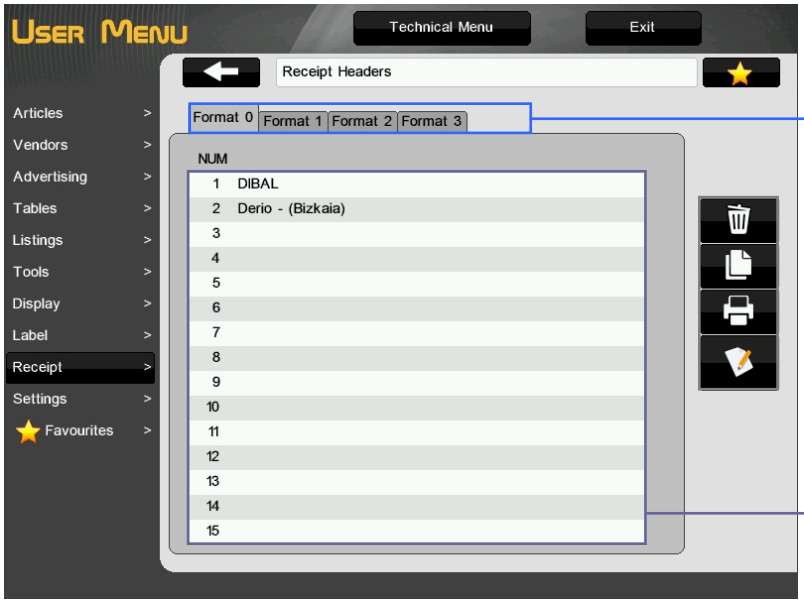


3.9.1 Receipt formats

3.9.1.1 Program Receipt Formats

This option is not available in version 106P. The programming must be done with DLD.

3.9.1.2 Receipt headers



Select the receipt format.

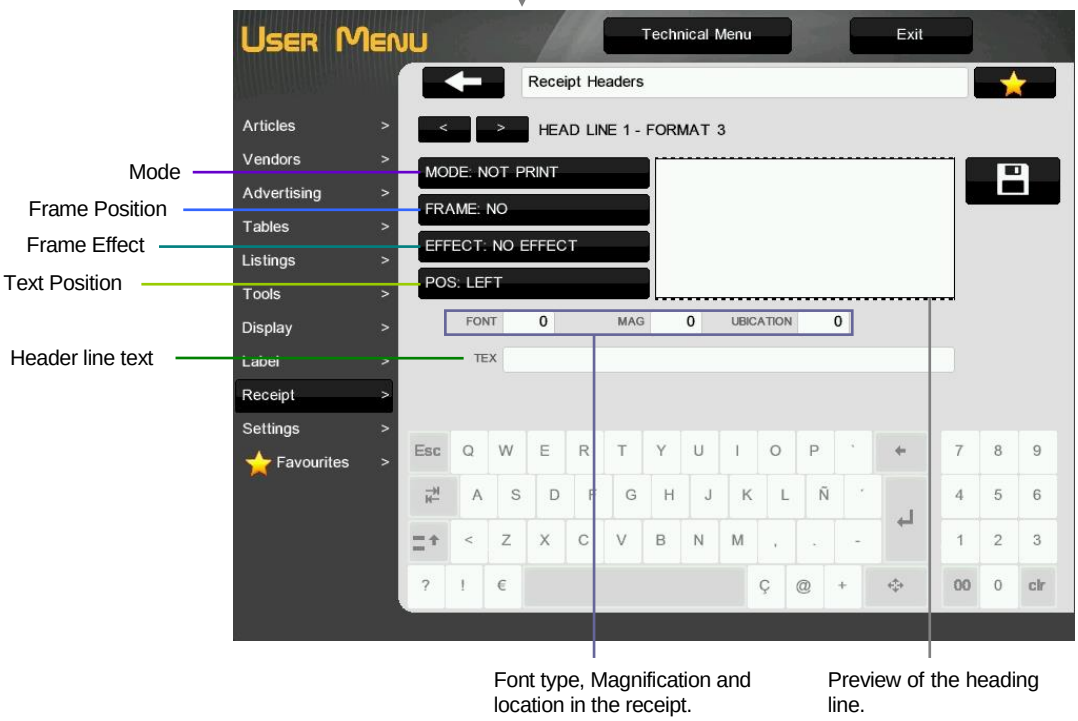
To select the header line, press on it. The header line will be marked in black.

Delete the selected heading line.

Print the list of heading lines.

Copy the selected heading line. To paste it select the destination heading line and press Paste.

Edit the selected heading line.



When the keys MODE, FRAME, EFFECT and POSITION are pressed, the value of the parameter will change and a preview of the heading line will be shown. For the other parameters, the value must be entered by keyboard.

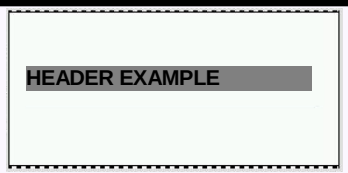
MODE

MODE: NOT PRINT

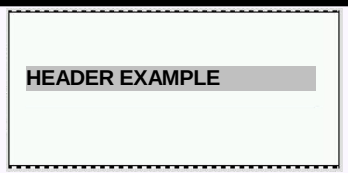
MODE: NORMAL

MODE: INVERSE

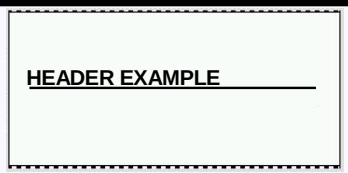
MODE: SHADED



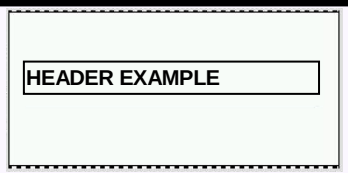
MODE: SOFT SHADED



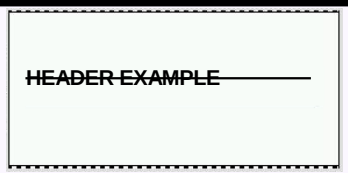
MODE: UNDERLINED



MODE: FRAMED



MODE: CROSSED OUT



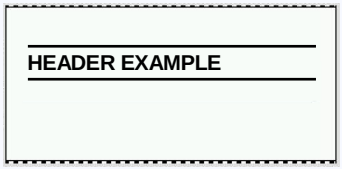
FRAME

FRAME: NO

FRAME: UPPER

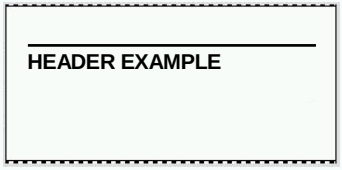
FRAME: LOWER

FRAME: LOW-UP



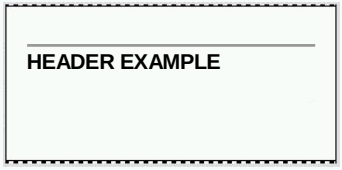
FRAME EFFECT

EFFECT. SOLID LINE

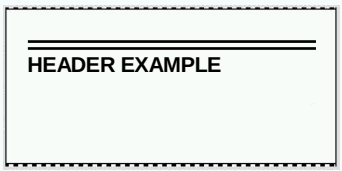


EFFECT. BROKEN LINE

EFFECT. CGREY

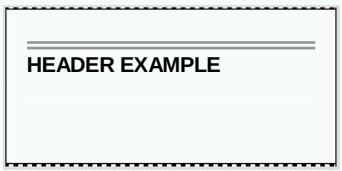


EFFECT. 2 SOLID

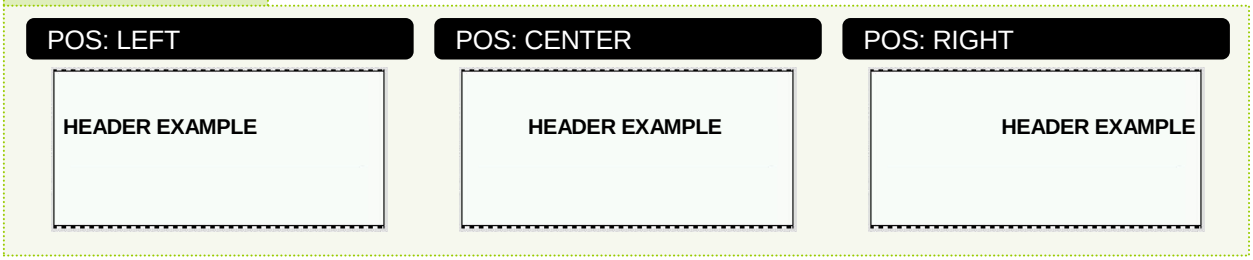


EFFECT. 2 BROKEN

EFFECT. 2 GREY



POSITION



FONT

Select the type of Font to be used.

MAGNIFICATION

The magnification is used to increase the size of the letters, the options are:

MULTIPLICATION	MULTIPLICATION
0	Width x 1, Height x 1
1	Width x 2, Height x 2
2	Width x 3, Height x 3
3	Width x 4, Height x 4
4	Width x 5, Height x 5
5	Width x 1, Height x 2
6	Width x 2, Height x 1
7	Width x 2, Height x 3
8	Width x 3, Height x 2
9	Width x 4, Height x 3
10	Width x 3, Height x 4
11	Width x 5, Height x 4
12	Width x 4, Height x 5
13	Width x 2, Height x 4

Table 3-3

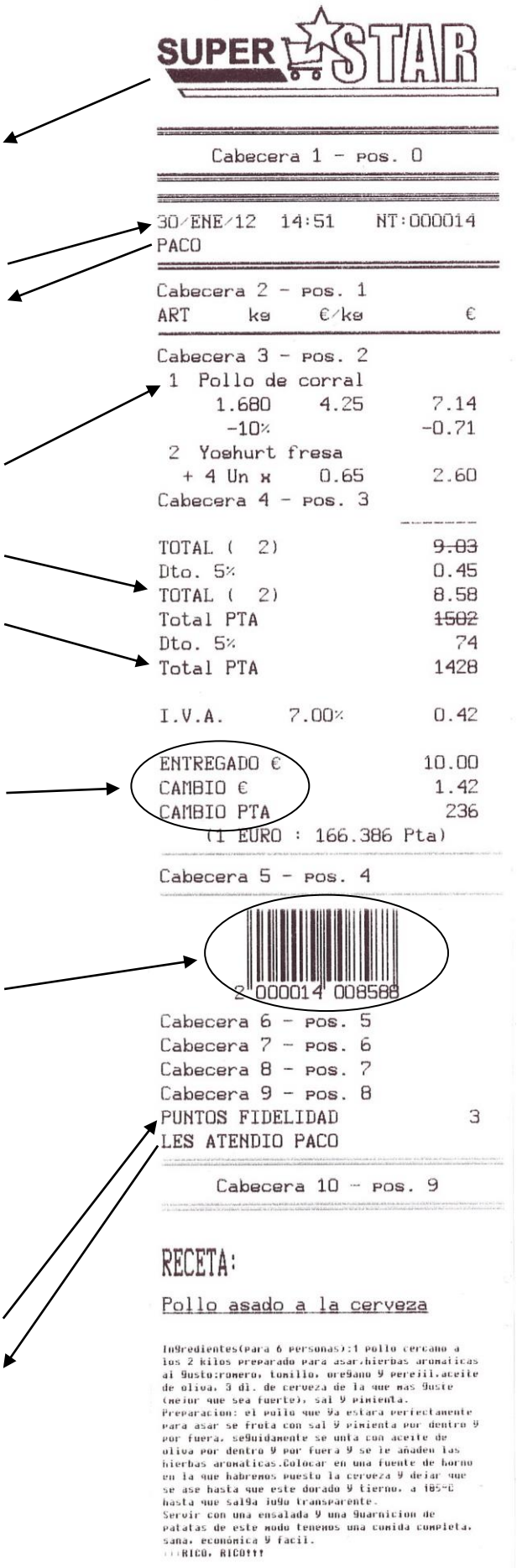
LOCATION

This parameter defines the position of the heading line in the receipt. There are 10 possible positions Select a value between 0 and 9 (see paragraph***. 3.9.1.3 Receipt Diagram***).

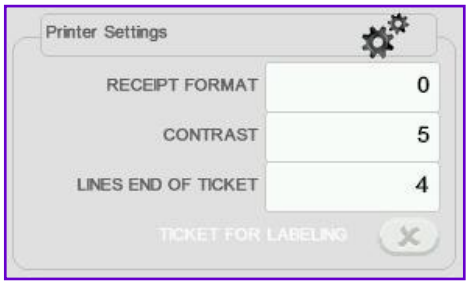
3.9.1.3 Receipt diagram

See an example of a receipt showing the different fields and positions.

LOGO (0)
POSITION(0)
LOGO (1)
INITIAL LINE
VENDOR'S NAME
POSITION 1(1)
TITLE LINE
POSITION 2 (2)
LINE WITH ARTICLE DESCRIPTION
POSITION 3 (3)
TOTAL MAIN CURRENCY 2 fields
TOTAL SECONDARY CURRENCY 2 fields
DISCOUNT
VAT
TENDERED/CHANGE
TENDERED/CHANGE SE. CURRENCY
EURO EXCHANGE
CURRENCY
POSITION 4(4)
BARCODE
POSITION 5(5)
LOGO (2)
POSITION 6(6)
LOGO (3)
POSITION 7 (7)
TRACEABILITY DATA
POSITION 8 (8)
LOYALTY POINTS
SERVED BY: 2 fields
POSITION (9)



3.9.2 Printer Settings



3.9.2.1 Receipt Format

With this parameter, whose value is between 0 and 3, decide in which format by default the receipts will be printed, in such a way that if it is set at:

0 - 1 → Pre-defined receipt.

2 - 3 → Receipts programmable by the user.

To modify this parameter: Enter the required value.

3.9.2.2 Contrast

The value of this parameter (from 0 to 9) is in direct proportion to the contrast with which the receipts will be printed.

Enter the value of the contrast as a number between 0 and 9 (default value 5).

3.9.2.3 Lines End of Ticket

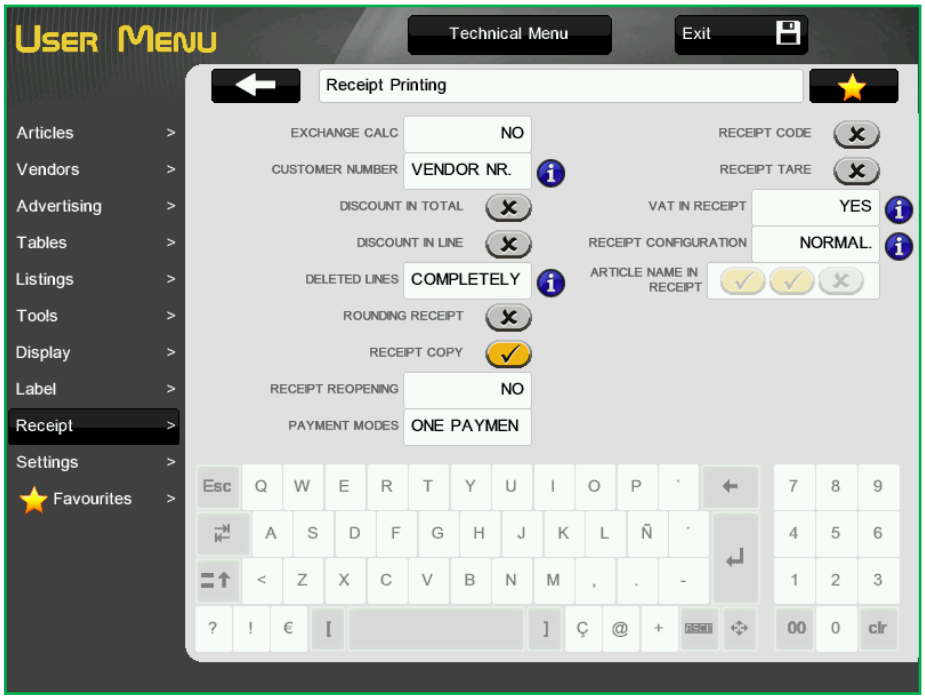
The value of this parameter indicates the number of free lines to be left after the receipt is printed (from 1 up to 9 lines), to ensure all information included is visible in its entirety.

The possible values are 1 to 9.

3.9.2.4 Ticket for labeling

With this parameter you determine on which printer the receipt is to be printed:
When this parameter is enabled the tickets will be printed on the labeler.

3.9.3 Receipt Printing



3.9.3.1 Exchange Calculation

With this option you determine if the scale must calculate the change before issuing the receipt or not. To do so:

'N0' – Without calculation of the change. (Default value)
'DELAYED' – With calculation of the change, after a 5-sec. pause.
'YES' – With calculation of the change.

Enter the required change value with the numeric keypad.

3.9.3.2 Customer Number

Decides which number will appear on the receipt number, a successive number provided by the scale itself, or a number the scale will request before printing the receipt (Customer number) and whether what is printed is this receipt number or the sales assistant's code.

Enter one of the following values:

'0 – VENDOR NR.' – The sales assistant number is printed in the heading.

'1 – VENDOR NR. + CUSTOMER NR.' – The customer number is requested before printing the receipt, in order to print this number at the end. The sales assistant number is printed in the heading.

'2 – RECEIPT NR.' – The next consecutive receipt number is printed in the heading.

'3 – RECEIPT NR. + CUSTOMER NR.' – A customer number is requested before the receipt is printed, and this number is printed at the end. The next consecutive receipt number is printed in the heading.

'4 – VENDOR NR. + ACCOUNT NR.' – The sales assistant number is printed in the heading. If the "PAY TO ACCOUNT" mode of payment is selected, the scales request the customer number for payment to account, and it will be printed below the receipt:

Account payment
Client: Client no. and name.

'5 – VENDOR NR. + CUSTOMER NR. OR ACCOUNT NR.' – It requests customer number before printing the receipt and the sales assistant number is printed on the header.

'6 – RECEIPT NR. + ACCOUNT NR.' – It prints a consecutive receipt number and the receipt number is printed on the header. If 'ON ACCOUNT' is chosen as form of payment, the scale requests the customer number for payment on account, and prints it on the header.

'7 – RECEIPT NR. + CUSTOMER NR. OR ACCOUNT NR.' – It requests customer number before printing the receipt and the customer number (or receipt no.) is printed on the header of the receipt.

3.9.3.3 Discount in total

This parameter sets the scale to apply or not a discount percentage to the total of a transaction, in such a way that if the value is:

'NO' – A discount is not applied to the total.

'YES' – The discount percentage is applied at the end of the receipt.

'FAULT' – A percentage discount is applied at the end of the receipt, only if requested.

3.9.3.4 Discount in Line

Depending on the value of this parameter it is possible to apply a discount or not to a product, while at the operation stage

Enabled ✓ **-** Possibility of discount in line
Disabled ✗ **-** Without discount in line

3.9.3.5 Deleted Lines

This parameter shows how to print and send to a pc lines that have cancelled from a receipt. Deleted lines will be shown in inverted video, regardless of how they are printed later. Possible values are:

'0 – COMPLETELY REMOVED'

Are not printed on the receipt with the word "CANCELLED".

Are not counted in the number of articles on the receipt.

Do not blink on the screen when cancelled.

Are not sent to the PC in the "Immediate Sales" register.

'1 – PRINTED "CANCELED" AND TAKEN INTO ACCOUNT IN RECEIPT. CROSSED OUT'

Are printed on the receipt with the word "CANCELLED".

Are counted in the number of articles on the receipt.

When cancelled, these are shown as a negative value on the display.

Are not sent to the PC in the "Immediate Sales" register

'2 – CROSSED OUT AND SENT TO PC'

Are not printed on the receipt with the word "CANCELLED".

Are not counted in the number of articles on the receipt.

Appeared blinking on the display when cancelled.

Are sent to the PC in the "Immediate Sales" register

'3 – PRINTED "CANCELED" AND TAKEN INTO ACCOUNT IN RECEIPT. CROSSED OUT'

Are printed on the receipt with the word "CANCELLED".

Are counted in the number of articles on the receipt.

When cancelled, these are shown as a negative value on the display.

Are not sent to the PC in the "Immediate Sales" register.

'4 – CANCELLATION NOT ALLOWED'

It is not allowed cancelling lines.

3.9.3.6 Rounding Receipt

This parameter is for activating or deactivating rounding off the total amount of the receipt. Rounding off is performed on the total amount after any discount has been applied on the total (where applicable). The following criteria are used:

Amounts that are multiples of 5 cents are left as such.

Other amounts are rounded off to the nearest multiple of 5 cents

3 lines will be shown:

Total (before rounding off)

Rounding off (up or down)

Rounded total

In the case of a secondary currency, only the total after rounding off will be given.

Possible values for this parameter are:

Enabled ✓ **-** Receipt with rounding

Disabled ✗ **-** Receipt without rounding

At the end of lists 7 and 9 a line is printed to indicate the total sum of rounding off that has been applied to receipts.

E.x. TOTAL GR. ROUNDING OFF -0.02

3.9.3.7 Receipt Copy

The possible values are:

Enabled ✓ **-** It is possible to print receipt copies

Disabled ✗ **-** It is not possible to print receipt copies

The copies of receipt are printed with the text ****COPY****

3.9.3.8 Receipt reopening

The D-900 scales afford the possibility to select the REOPENING of receipt operating mode *(see paragraph **2.8.2.5. Receipt reopening**)*.

'0 - NO' – Without reopening

'1 - YES' – Reopening of receipt, normal operation.

'X – TIMED REOPENING' – Timed reopening.

If the user sets a value other than '1' or '0', reopening is enabled for a specific length of time. Once this time has passed the receipt can no longer be reopened.

Use the table below to configure the reopening time, depending on the **'X'** parameter.

Parameter	Reopening time
2	1 min.
3	1 min. 30 sec.
4	2 min.
5	2 min 30 sec.
6	3 min.
7	3 min. 30 sec.
8	4 min.
9	Without reopening time limit

Table 3-4

3.9.3.9 Two payment modes

It is possible to use in the receipt a maximum of two payment modes (see paragraph***. 2.8.2.6.2 Two Payment Modes***). The possible values are:

0 – Without payment modes

1 – One payment mode.

2 – Two payment modes.

3.9.3.10 Receipt Code

This parameter allows to print the code of the article in the receipt. The possible values are:

Enabled ✓ **–** The scale prints the code of the article together to the description in receipt.

Disabled ✗ **–** The scale does not print the code of the article together to the description in receipt.

3.9.3.11 Receipt Tare

This parameter allows to print the tare in the receipt. The possible values are:

Enabled ✓ **–** The scale prints the tare in the receipt.

Disabled ✗ **–** The scale does not print the tare in the receipt.

3.9.3.12 VAT in Receipt

This parameter allows you to configure the printing of VAT on the receipt.

'YES' – VAT is printed in the receipt.

'NO' – VAT is NOT printed in the receipt.

'DETAILED' - VAT is printed in the receipt, showing at the end of the receipt the total for every type of VAT ant the value from which it has been calculated.

'DETAILED-TVA - VAT is printed in the receipt for every line, showing at the end of the receipt the total for every type of VAT ant the value from which it has been calculated.

3.9.3.13 Receipt Configuration

Depending on the values of this parameter, you can obtain different types of receipts and labels, as well as print the information in EURO, that is:

'0 - NORMAL' – Normal receipt and label.

'1 – SIMPLIFIED RECEIPT' – Simplified receipts: only header 2 is printed on the receipt (the time, date and sales assistant's number are not included and are substituted by the centered date located in position 0).

'2 – TOTAL IN SECONDARY CURRENCY' – Normal receipt and normal label with total in secondary currency.

'3 – SIMPLIFIED RECEIPT. TOTAL IN SECONDARY CURRENCY' – Simplified receipt with total in secondary currency.

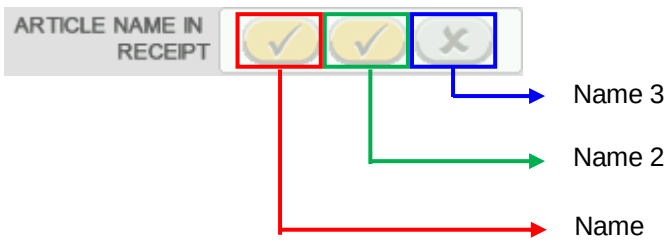
'4 – TOTAL AND LINES IN SECONDARY CURRENCY' – Simplified receipt and label with total and lines in secondary currency.

'5 – SIMPLIFIED RECEIPT. TOTAL AND LINES IN SECONDARY CURRENCY' – Simplified receipt with total and lines in secondary currency.

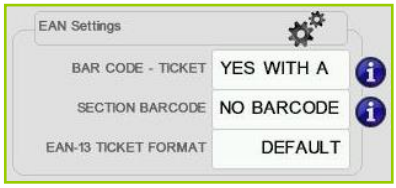
'6 – SIMPLIFIED INVOICE WITH INVOICE NR.' - Simplified Invoice with invoice number.

3.9.3.14 Article name in receipt

This parameter is used to select the name to be printed on the receipt. Each ✓ represents one of the names. They are distributed as follows:



3.9.4 EAN Settings



3.9.4.1 Barcode in Ticket

This is to inform the scale if it is to issue a bar code, and when it is to do so:

'NO' – No bar code.

'YES WITH AMNT ≥ 0' – Bar code on the receipt when the total is positive. (Default value)

'YES IF AMNT ≤ 0' – Bar code on the receipt always positive. If the total is negative, a zero shows.

'YES – ABS AMOUNT' – Bar code always, with the absolute value of the amount being written in.

3.9.4.2 Section Barcode in Register Voucher

The scale permits a voucher to obtain specific information of the sales by section.

'0 –NO BARCODES PER SECTION ' – Barcodes per section are not printed.

'1 – ONLY ONE RECEIPT AND VOUCHER PER SECTION' – In one receipt the information about all the sections is printed. In the Voucher is obtained the barcode for each section of which have been made sales on the receipt.

'2 – RECEIPT AND VOUCHER PER SECTION' – One receipt and a voucher are printed by section, which prints the barcode associated with the corresponding section.

'3 – RECEIPT PER SECTION AND NO VOUCHERS' – A receipt is printed by section (without voucher), which prints the barcode associated with the corresponding section.

The code of each section is programmable (see ***paragraph 3.4.1 Sections***) being by default if there is not assigned another one 2KKNNNNEEEEE.

3.9.4.3 EAN 13 Ticket Format

With this parameter you can determine if the bar code is to be printed on both the receipt and the label:

'DEFAULT' – Format by default of the bar code. (Default value)

'F.80' – Special format in receipt mode.

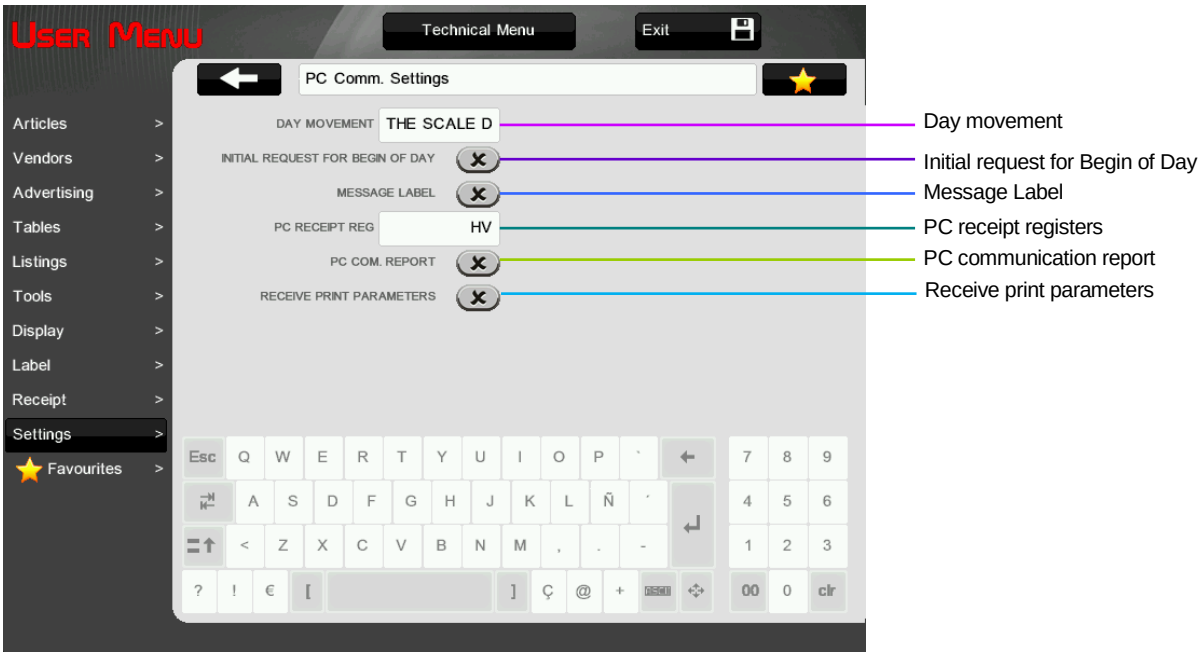
Here the overall EAN13 bar code is defined for the receipt. It is called the special bar code.
The numbers are symbolized directly on the bar code, and the meaning of the different letters is shown in ***table 3-2***

3.10 SETTINGS

In the menu settings it is possible to configure: the parameters related to PC connection, keyboard functions, the barcodes reading with scanner and the selection of the working modes.

3.10.1 PC Communication Settings

This menu allows to configure the parameters related to the sending and reception of data from PC.



3.10.1.1 Day Movement

The value of this parameter indicates if the scale sends data to the computer. This parameter has either of the following values:

'0 – THE SCALE DOES NOT SEND DATA TO THE COMPUTER'

'1 – THE SCALE SENDS DATA TO THE COMPUTER'

'2 – THE SCALE SENDS DATA TO THE COMPUTER WHEN AND END OF DAY IS REQUESTED'

3.10.1.2 Initial request for Begin of Day

The value of this parameter indicates if the scale does a begin of day each time it starts up.

Activado ✓ - Enabled initial begin of day.

Desactivado ✗ - Disabled initial begin of day.

3.10.1.3 Message Label

This parameter is used to differentiate between the messages sent to the PC for the receipt and label.

Activado ✓ **–** It differentiates between the messages on the receipt and label.

Desactivado ✗ – It does not differentiate between the messages on the receipt and label.

3.10.1.4 PC receipt register

This parameter is used to select one of two types of receipt registers, which can be used to send a literal copy of the receipt to the PC, i.e. the sales effected at the scales.

Possible values are:

'LA' – Sales are sent to the PC through the LA register.

'LY' – Sales are sent to the PC through the LY register.

'HV' – Sales are sent to the PC through the HV register.

'HT' – Sales are sent to the PC through the HT register.

'HA' – Sales are sent to the PC through the HA register.

> If fiscal mode is on, this parameter can only be set to: LY, HV or HT register.

3.10.1.5 PC Communication report

This parameter permits a series of messages to be displayed on the printer, indicating the status of different processes that are executed in communications with the PC.

Activado ✓ **–** Messages on processes related to PC communication are printed.

Desactivado ✗ **–** Messages on processes related to PC communication are not printed.

These messages are created for different process such as "start and end a Start of Day", "start and end price sending", "start-up scales", etc. An example of such a message is:

The PC starts a Start of day. (PC: START 2000)
"End of Day START Msg: xx"

The PC ends a Start of Day. (PC: END 2000)
"End of Day OK Msg: xx"

> The time and date that the event occurs are shown in the line above the message. The internal number of the message sent between the PC and the scales is printed at the end of each text.

3.10.1.6 Receive print parameters

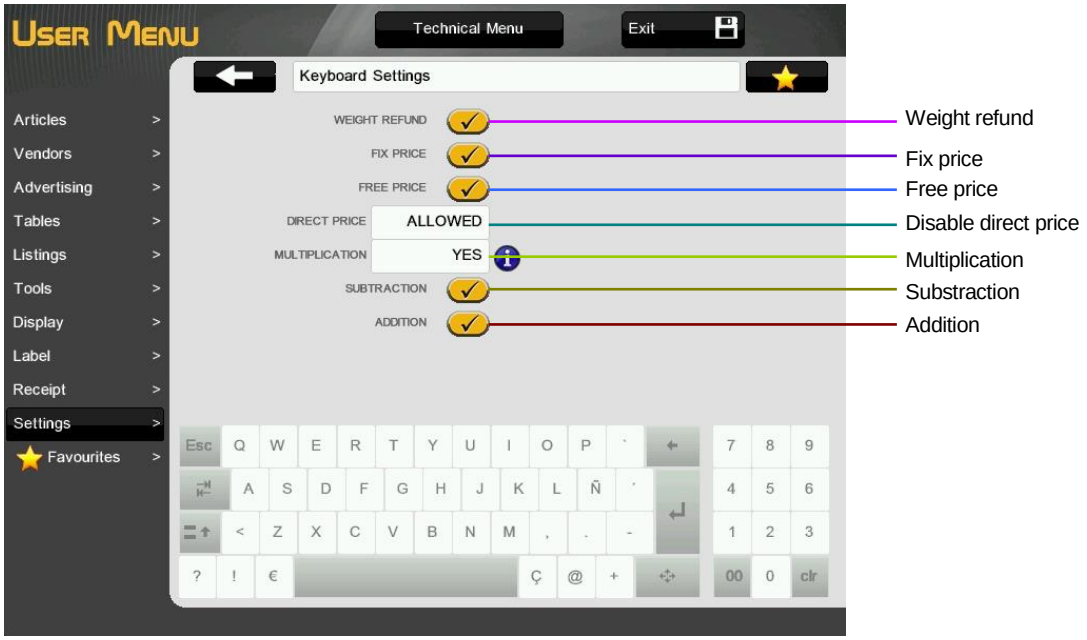
This parameter is used to specify if the scale is to receive printing parameters or not.

Enabled ✓ - The scale receives printing parameters, and the previous settings are deleted.

Disabled ✗ - The scale does not receive printing parameters, and the previous settings are kept.

3.10.2 Keyboard Settings

These parameters define the functioning of some keys in normal working mode.



3.10.2.1 Weight refund

This parameter defines if it is possible to make the operation of refund of articles in the scale.

3.10.2.2 Fix price

This parameter defines if it is possible to make the operation of Fix and article or a price in the scale.

3.10.2.3 Free price

This parameter defines if it is possible to make the operation of Free Price (manual entering of the price of an article programmed) of articles in the scale.

3.10.2.4 Disable direct price

It determines, with the scale in normal working mode, if it is allowed selling products in direct price.

'0 - ALLOWED' – It is allowed to operate with direct price, typing the price and pressing DIRECT PRICE.

'1 - NOT ALLOWED' – Operations in direct price are not allowed.

'2 - ALLOWED TO FIX DP - Pressing DIRECT PRICE, working mode *Direct Price* is fixed. Everything you type is interpreted as direct price without having to press commas.

'3 - AFTER DP NORMAL' - Pressing DIRECT PRICE, working mode *Direct Price* is fixed. Once the sale is memorized, *Direct Price* mode is automatically unfixed.

'4 - AFTER NORMAL DP' - Pressing DIRECT PRICE, working mode *Direct Price* is fixed. Once the sale is memorized, *Direct Price* mode is automatically fixed.

3.10.2.5 Multiplication

This option is used to determine if the scale can carry out multiplication operations in normal working mode.

'YES' – It enables multiplication. (Default value)

'NO' – It does not enable multiplication.

'FORCE UNIT' – Permits multiplication. Units must be entered in all article sales that are classified as UNIT type.

3.10.2.6 Subtraction

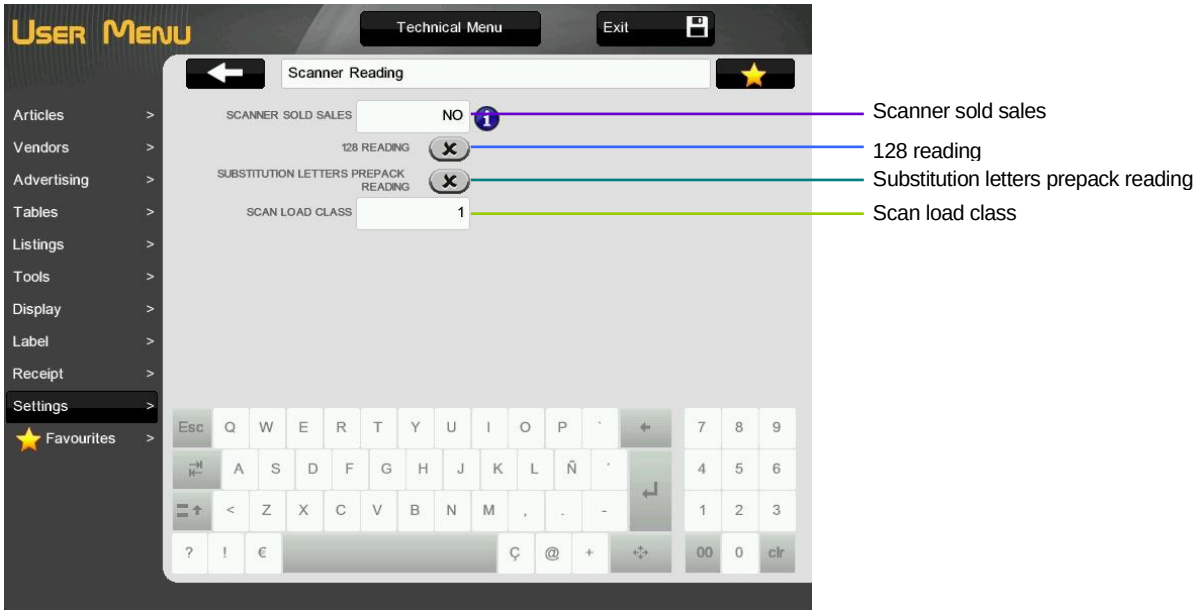
Just like the previous parameter but for subtraction operations.

3.10.2.7 Addition

Just like the previous parameter but for addition operations.

3.10.3 Scanner Reading

In this menu it is possible to configure all the parameters related with reading barcodes with scanner.



3.10.3.1 Scanner sold sales

It allows making a direct sale of read articles with scanner, when the scale is working in receipt mode. The possible values are:

'NO' – It is not possible to make direct sale of the read articles with scanner.

'WITH MEM SEL' – It is possible to make direct sale of the read articles with scanner. In the first sale of scanner read products the vendor must be selected.

'W/O SEL MEM' – It is possible to make direct sale of the read articles with scanner. The scale assigns automatically the vendor for the scanner read articles (V1 in master and Slave number +1 in slaves). If the seller was not already created, it will be created automatically (without name and with code 00000).

If the parameter has the value '*With mem sel*', once the first saving has been done and the memory indicated on the display, all the savings done using the scanner will affect to that memory. It is no possible selling working in other memory. When the receipt has been taken away, you can save over other memory.

3.10.3.2 128 reading

This parameter determines if the scanner reads EAN 128 format or other formats (EAN 13 y EAN 8). The EAN 128 reading is only valid for MASTER scales.

Enabled - The scale can read with scanner EAN128 barcodes.

Disabled - The scale can't read with scanner EAN128 barcodes.

3.10.3.3 Substitution letters prepack reading

Enabled – Allows the direct reading using the scanner of FIX WEIGHT or FIX AMOUNT.

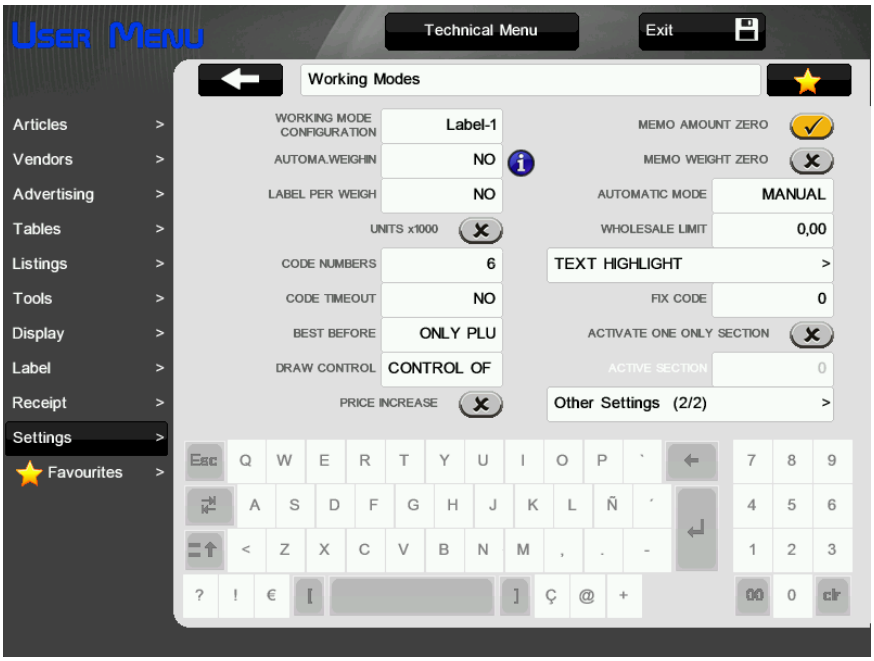
Disabled – Does not allow the direct reading using the scanner of FIX WEIGHT or FIX AMOUNT

3.10.3.4 Scan load class

This parameter is used to set the Traceability Class to be assigned to a Traceability Product when it is registered to be read in a barcode. The values can be between 1 and 10 (1 by default).

3.10.4 Working Modes

This menu allows to program and configure the different working modes of the scale and the values of some parameters directly related with these working modes.



3.10.4.1 Working Mode configuration

This option allows to configure the different working modes of the scale (Receipt, Label, Self-Service 1, Self-Service 2, Self-Service 3).

3.10.4.2 Automatic weighing

This option allows you to program the scale to work with labels, in such a way that if there is a fixed article, when the weight placed on the dish is stable, a label will be printed.

'NO' – It does not enable automatic weighing.

'WITH MEM SEL' – It allows automatic weighing with the preselection of a memory key.

'W/O SEL MEM' – This permits automatic weighing without preselection of memory key. The machine automatically assigns this to sales assistant V1 (MASTER) or to the slave number + 1 (SLAVE). If the seller was not already created, it will be created automatically (without name and with code 00000).

Example:

If weighing scales number 2 are used, and they are set up as a slave, when the *automatic weighing* parameter is set to 2, the scales will memorize all amounts under sales assistant V3.

3.10.4.3 Label per weigh

Working in receipt mode, it is allowed to print a label for each weighing, according to the value its parameter takes. It can have the following values.

'NO' – It enables to print a label for each weighing, apart from carrying out the information of sales in the receipt.

'YES' – A label will be printed for each piece of information stored, thus allowing you to obtain a receipt of the labels issued since the last receipt stored in that memory.

'SELECTING FOR EACH WEIGHING' – Pressing LABEL PER WEIGHT before selecting a PLU, prints a label of the weighing, in addition stores it for its subsequent recording on the receipt.

'YES PROVIDING THAT THE ARTICLE IS NOT READ BY A SCANNER' – Still in receipt mode, a label will be issued for each memorization effected, PROVIDING THAT THE ARTICLE IS NOT READ BY A SCANNER, and a receipt can be issued for labels issued, from the last receipt that is saved in this memory.

3.10.4.4 Units X 1000

Here you decide whether in accumulative lists, the weight totals are printed in grams or kilograms.

Enabled ✓ **–** It accumulates unit sales in grams. (Default value)

Disabled ✗ **–** It accumulates unit sales in kilograms.

3.10.4.5 Code numbers

You decide how many digits you must enter to seek an article in the scale at normal working mode. The maximum length an article code may have is 5 digits.

'0' – The 6 figures of the article code are used.

'1' to **'6' –** As many figures as in the programmed number are used.

3.10.4.6 Code timeout

It is not necessary to enter all the digits of an article code in order to select it.

The timer is activated each time a key is pressed while an article code is being entered.

After the time has gone past, as entered for this parameter, the article is shown with the code as far as it has been entered.

Possible values are:

'NO' – Timer not activate. Operation as normal.

'0.5 SEC' – 0.5 seconds.

'1 SEC' – 1 seconds.

'1.5 SEC' – 1.5 seconds.

'2 SEC' – 2 seconds.

'2.5 SEC' – 2.5 seconds.

'3 SEC' – 3 seconds.

'AUTO SEARCH' – Active searching in each pulsation.

3.10.4.7 Best Before

The printing mode of the sell by date is established by setting the values of this parameter:

'ONLY PLU' – The expiry date of each PLU will be printed.

'YES - GLOB PREVAIL' – Permits programming of global expiry date (F5) and global expiry date prevails.

'ANY' – It disables the printing of any type of sell by.

'SI-PLU PREVAIL' – Permits programming of global expiry date F5) and the article expiry date prevails.

3.10.4.8 Draw Control

This parameter allows you to enable or disable the cash drawer check.

'CONTROL OFF' – Cash drawer check is disabled.

'CONTROL ON' – Cash drawer check is enabled.

'DETECT ON' – Draw control detector enabled.

3.10.4.9 Price Increase

It allows you to enable the operation for increasing or decreasing the price. The possible values are:

Disabled ✗ **–** Disabled increase or decrease in price.

Enabled ✓ **–** Enabled increase or decrease in the price.

3.10.4.10Memo amount zero

Disabled ✗ **–** Does not allow to memorize with Amount Zero.

Enabled ✓ **–** Allows to memorize with Amount Zero.

3.10.4.11Memo weight zero

Disabled ✗ **–** Does not allow to memorize with Weight Zero

Enabled ✓ **–** Allows to memorize with Weight Zero

3.10.4.12Automatic Mode

There are two possible values:

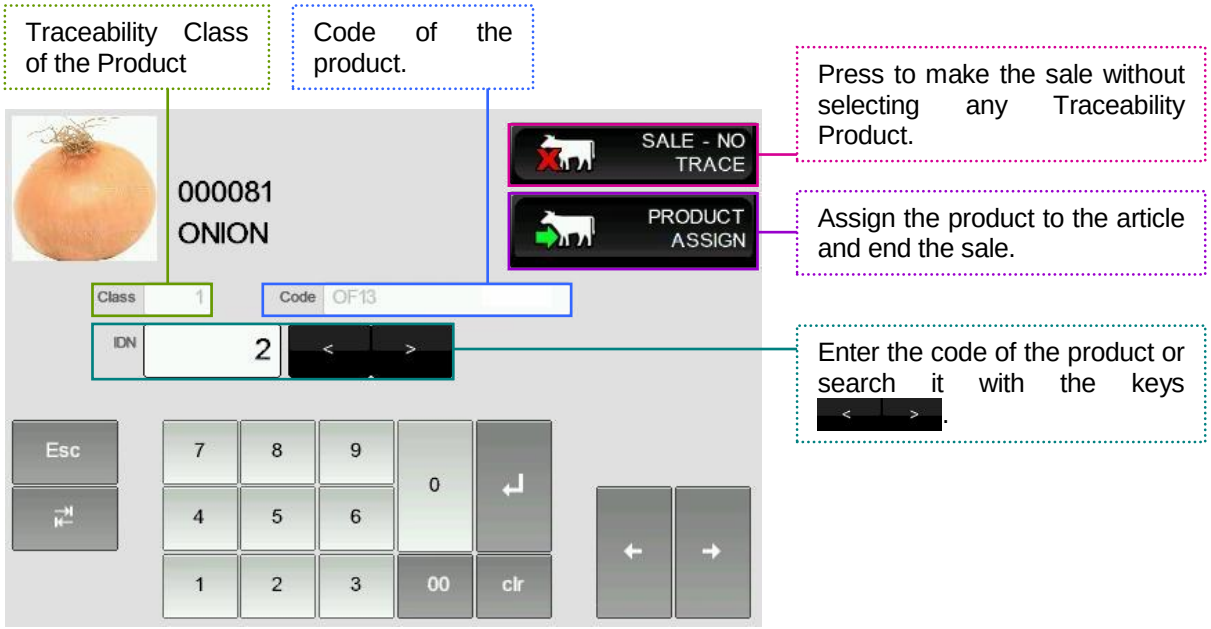
'MANUAL' – Manual Operation
Every time an article with traceability is sold, the display shows the article and product to which it is associated, and the possibility is offered to change this association through the association menu.

'AUTOMATIC' – Automatic Operation
Every time an article with traceability is sold, the sale is applied to the last product belonging to the associated article. It is also permitted to enter the product /article association menu manually through a combination of keys.

Whatever the working mode, it can be accessed to the product association menu with articles by pressing PRODUCT ASSIGN, once selected the traceability article.

In this association menu, it is shown in the display the code and the article denomination, the fast identification of the product and the identification number of the product.

The menu of articles with traceability is the following:



3.10.4.13Wholesalers Limit

The wholesalers limit is the quantity of the amount from which a customer is considered a wholesaler. Enter a value between 0 and 9999,99 (default value: 1000,00).

3.10.4.14Text Highlight

On this screen you may select how you want to highlight the text in brackets.

3.10.4.15Fix code

You have to introduce the article code which is going to be seller in self-service 4 mode. If the value is 0, the self-service 4 mode gets the article with the first code.

3.10.4.16Activate one only section

By enabling this parameter, all the sections will be disabled and only the section that is selected will be visible in the ***active section*** section. In the display set-up, the section tab will be blocked when this setting is enabled.

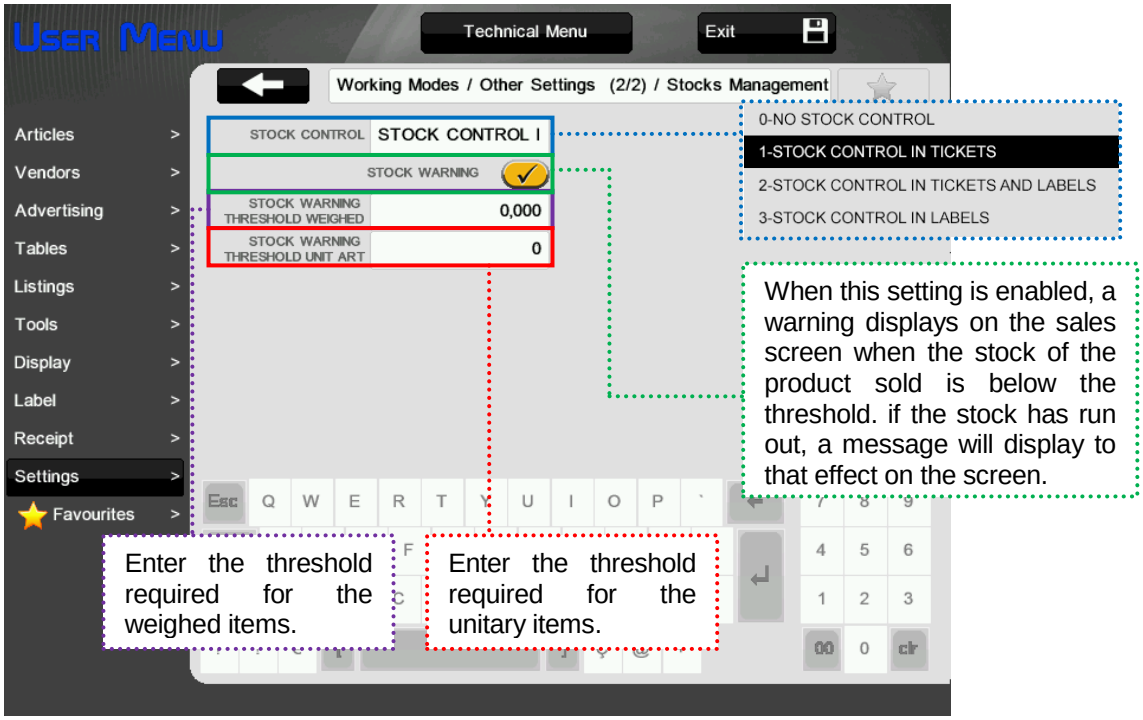
3.10.4.17Active section

The section entered in this setting will the only section visible when the Enable One Section Only setting is enabled. If One Section Only is disabled, this setting will have no effect.

3.10.4.18Other settings

3.10.4.18.1Stock management

In this setting you can program stock check, so that the scale notifies you when you reach the desired threshold. The check can be made when sales are made in receipt mode, label mode or in both.



3.10.4.18.2Label for a set of articles

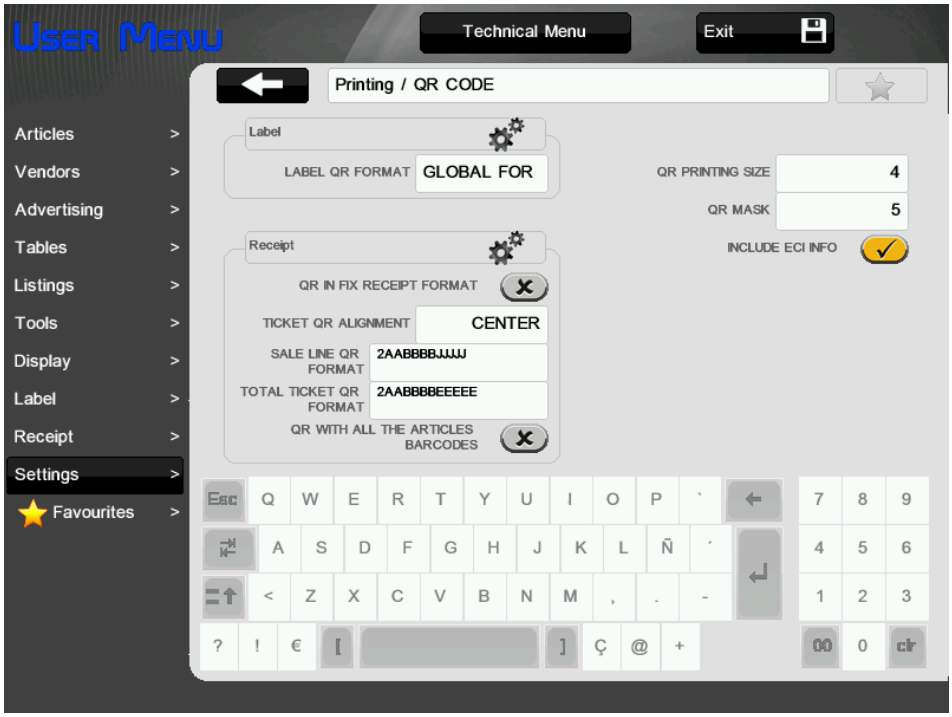
By enabling this setting, you enable a special work mode in which you work in label by weight but it allows you to print a label which includes the total of all the operations (cashier slip). In this mode, a series of settings such as those shown in the table are set up:

Mode	Receipt	**Payment modes**	0 (without mode)
Cashier slip	2	**Calculating change**	No
Timing cashier slip	1	**Barcode by section in the cashier slip**	0
Label by weight	Yes	**Allow self-service mode**	No
Discount on total	No	**QR in receipt fixed format**	Si

❗When these settings are disabled, all the settings will return to their default values

3.10.5 Printing

3.10.5.1 QR Code



Label

3.10.5.1.1 QR format in Labels

The QR code on label represents the EAN 128 code using the QR code. You can choose from a variety of options:

0- Global format: It encodes in the QR the contents of the global EAN programmed in the menu → tables → barcodes → EAN128.

1- Section format: It encodes in the QR the content of the EAN programmed for seccion.

2- Article format. It encodes in the QR the content of the EAN programmed for article.

3- Text G: It encodes in the QR the content of the article Text G. It must be considered that the maximum length of Text G is reduced to 512 characters, because this is the maximum length of characters that can represented in the QR code.

Receipt

3.10.5.1.2 QR in fix receipt format

In item fixed formats having a EAN13 code, it is replaced by a QR code which is made up of the sale lines and a total line. The format for each sale line and the total line is programmed in the following sections.

3.10.5.1.3 Sale line QR format

Enter the format required for each sale line.

3.10.5.1.4 Total ticket QR format

Enter the format required for the total line. Remember that the scale will enter the date on which the receipt is issued at the end of the QR, with the following format: DD/MM/YY, HH:MM.

3.10.5.1.5 QR with all the articles barcodes

Use this setting to generate a QR, which will be made up of the successive EANS of all the products sold.

This setting is designed for working in association with the “Item group label” setting, with which the cashier slip printed will include the QR code with all the EANS of the items. This does not mean it cannot be used in another way.

When this setting is enabled, the sale line and total line format programmed will be disabled, as they are not valid when this setting is enabled.

3.10.5.1.6 QR printing size

Use this setting to assign the size you require for the QR. The default value is 4 but it can vary from 2 to 5.

3.10.5.1.7 QR mask

Use this setting to assign the mask you wish to apply to the QR code. The default value is 5 but you can vary it between 0 and 8.

If you select the 0 value, the scale calculates the optimum mask and applies it. This calculation means that the printing time will be greater.

3.10.5.1.8 Include ECI information

With this setting, the information of the Extended Channel Interpretation is included in the QR with the code relating to the scale’s code page

3.10.5.1.9 Centre QR

To centre the QR code on the label, you can select the L side of a square on which to centre the QR. This operation can be done from the DLD software, where the L length is entered in the “letter type”, in dots.

Main

3.10.5.1.10 QR pringting size

Through this adjustment we assign the size that we want the QR to have. The default value is 4 but we can mofify between 2 and 5.

3.10.5.1.11 QR mask

By means of these adjustment we assign the mask that you want apply the Qr code .The default value is 5 but we can modify it between 0 and 8.
If we select the 0 value the scale calculate the optimal mask and apply it . These calculation makes the pringting lime too longer .

3.10.5.1.12 QR precisión level

Between 0 and 3 (By default : 1). The precision diferent values make reference the QR precisión read,with the value 3 the QR reads better

3.10.5.1.13Include ECI info

NO/YES (By default: YES)
IF the Extended Channel Interpretation info is then included in the QR with a code related to the balance codepage.

3.10.5.1.14 Include ENTER

With this setting activated, an Enter is included between each EAN so that each can be read on separate lines. With this setting off, all EANs are printed concatenated

3.10.5.2 Deleted by QR reading

Reading a QR from work screen, it can be done a z delete or level delete with list or list and delete options.
If you want to do a deletes you should be use the QR that appear in the following table:

	LISTAR	LISTAR y BORRAR
Z DELETE		
DELETION LEVEL 1		
DELETION LEVEL 2		
DELETION LEVEL 3		

3.10.5.3 Passwords with QR

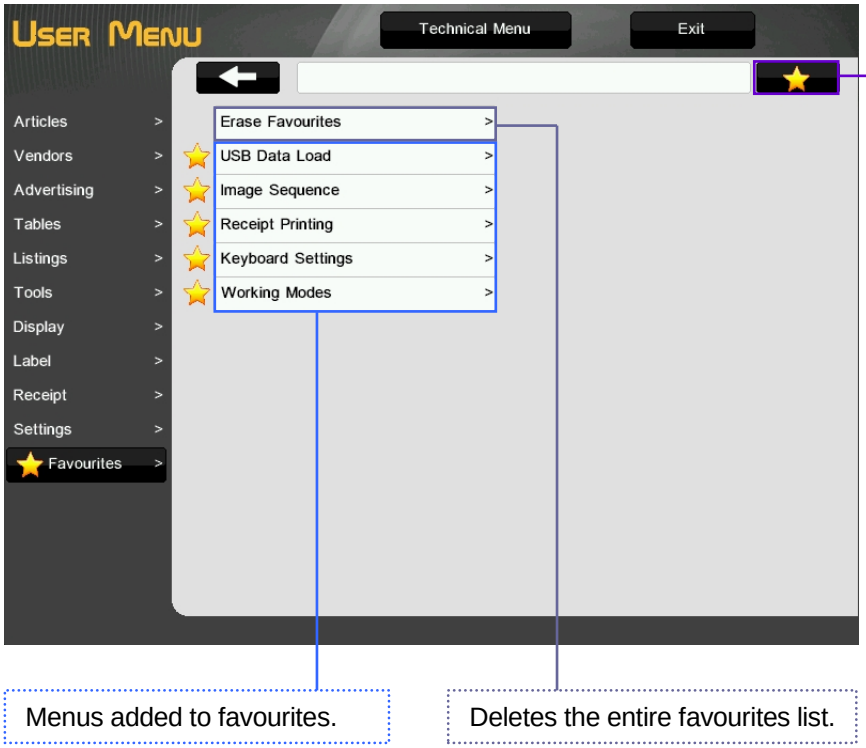
It is used to read a QR in the menu that has been declared a password and will avoid having to type it.
If we want this we can go to technical menu and in security headland push “Extended Security”.

Passwords are declared for the menus we want from 4 to 20 characteres, push to save (twice), to print the QR about paswords you can select and push .

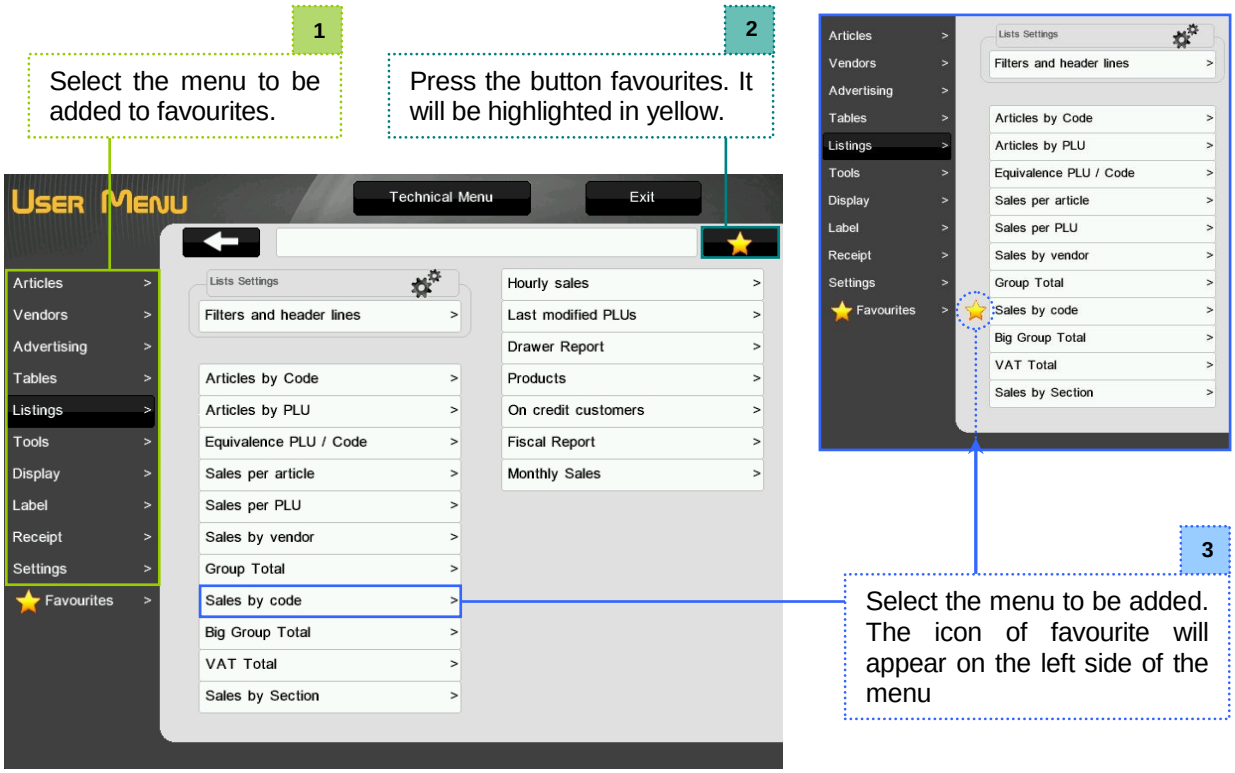
3.11 FAVOURITES

This menu allows to see the shortcuts to the selected menus and configurations.

To add a menu to the favourites, press the key ★ and then press the selected menu, a star key will appear on the left side of the menu to indicate that the menu is assigned to favourites.

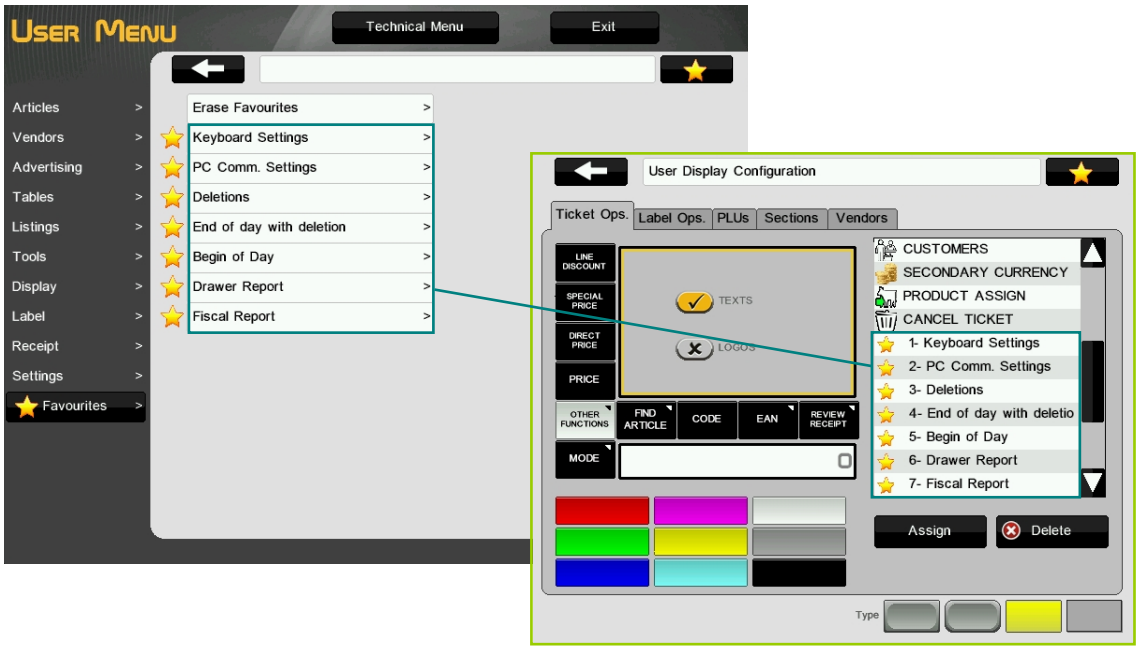


To add a menu to favourites:

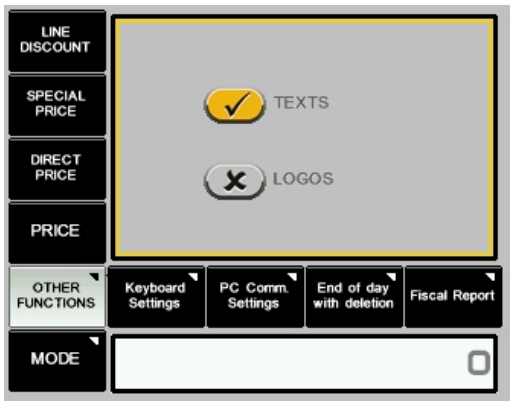


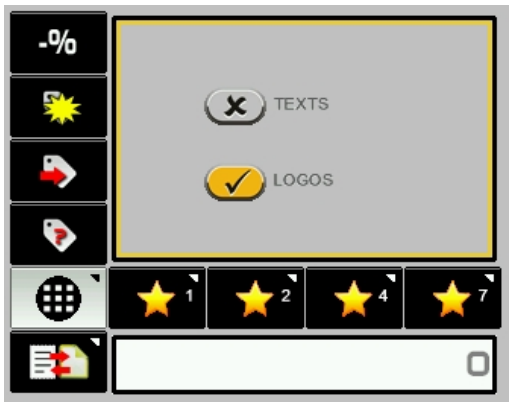
Doing this operation on a menu that is already assigned as favourite, it will de-assign it as such.

It is also possible to program favourites as function keys for the assisted sales screen. Programmed favourites will be shown in the list of the possible operatives that we can assign to keys on the display configuration menu:

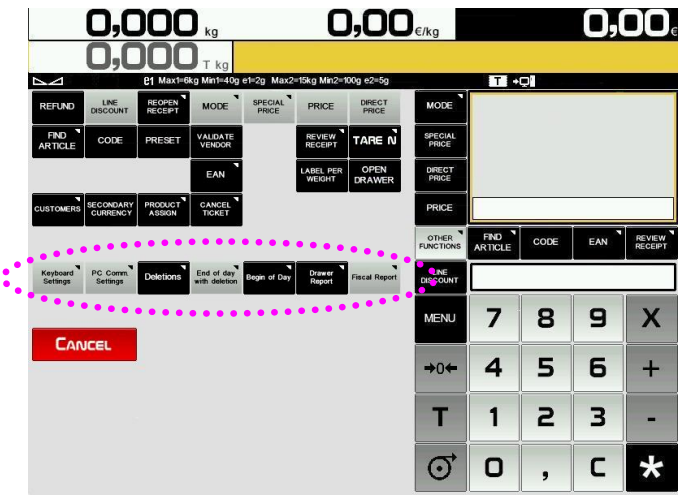


If we choose “TEXTS” key view mode, the keys will show the names of the programmed favourites. If we choose “LOGOS” key view mode, the keys will show a yellow star and the favourite number from the favourites list (in the order that they have been programmed).





On the sales screen, if we press the button “Other Functions”, all programmed favourite shortcuts will be shown after the operative functions. Favourite shortcuts that have been assigned to function keys will be disabled.



4 ICONS

Menu

Zero Setting

Tare

Paper Advance

Delete

Confirm Sale

Exit

Next Page

Prev. Page

Information about possible values of the parameter.

New / Creation

Delete

Edit

Copy

Paste

Print

Erase one

Erase 20

Visible

Training

Save

Enabled / Yes

Disabled / No

Favourites

Back

Stable

Zero

Minimum

Step

Receipt

Label

PC Connection

Without PC Connection

Master-Slave Connection

5 COMMUNICATIONS

The ***DIBAL* D-900 scale** was designed to work alone or s part of a network of MASTER and SLAVE scales.

If operating alone, the scale must be set up as MASTER. (Follow the steps shown below to obtain this configuration)

If the scale is set up as master, it may also be connected to a computer (which will enable it to be programmed and managed at greater speed and reliability as well at a distance from the scale itself by means of a modem), and it may also create a scale network.

A NETWORK of D900 scales can be made up of 1 MASTERS and 15 SLAVES depending on each master.

Within a network of scales, each MASTER scale is assigned a number (any number between 00 and 99, for example you can speak of master scale 02) which is known as its *address*: each master scale will have one address within the network, i.e., it will be clearly addressed. Consequently, there cannot be two or more scales with the same address.

Each of the master scales can be connected to up to 15 scales set up as slaves. A slave scale will be assigned an address which will be a number between 1 and 15.

The slave scale whose address is 01 is called the SUBMASTER, as it automatically loads a safety copy of all the data programmed to the master scale on which it depends.

For SAFETY reasons, THERE MUST BE A SLAVE SCALE 01 IN ALL SLAVE SUBNETWORKS: in the case of breakdown of the master scale, by merely CHANGING THE SUBMASTER SCALE TO MASTER you can go on working without the loss of any data.

To communicate with the computer, the group number must be defined.

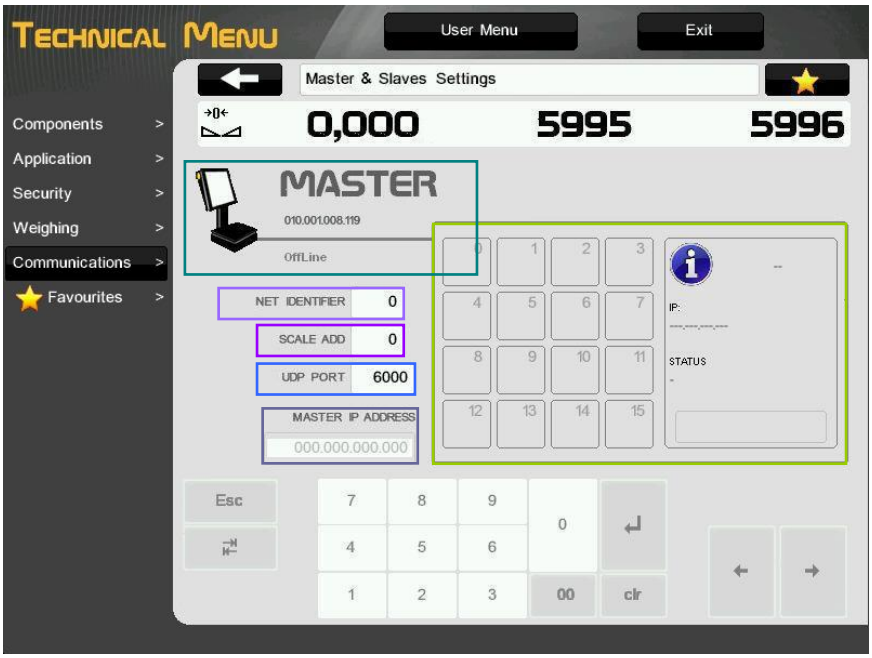
To send data from the computer to the scales as well as from the scales to the computer, you need to know which group and which master you must address. This is important when setting up the scale network and the computer program.

5.1 INTERCONNECTION

This is the menu used to configure the master-slaves communication.

Select the menu: Technical Menu → Communications → Master & Slaves Settings

5.1.1.1 Master-Slaves Settings



Information of the scale

This parameter allows to see the information of the scale: configuration (master or slave), IP Address and status (connected or disconnected).

Network Identifier

This parameter is a 2 digits number used to identify the master-slaves network. It must be the same in all the scales of the network.

Scale Address

This parameter is used to enter the address of the scale in the M-S network. It is a value between o and the máximum number of slaves (15).

0= Master, 1= Slave 1 (Submaster), 2= Slave 2,etc…

UDP Port (6000)

This parameter is sed to enter the communication port between master and slaves

Master IP Address

This parameter is programmed only in slave scales. It is used to enter the IP address of the master scale to which a slave scale is connected.

Connected scales

This parameter is used to display the connected scales. By selecting one scale, it is shown: configuration (master or slave), IP Address and status.

5.1.1.2 Send data to slaves

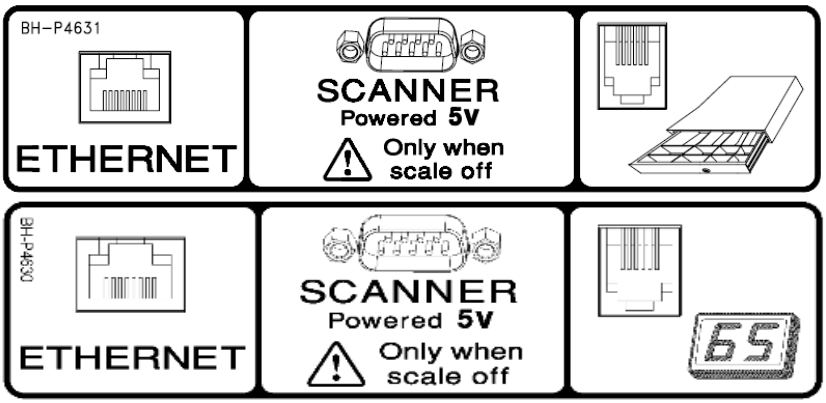
It may be useful to do back up data from a MASTER scale in their slaves, so that you have a security backup of these in each of them.

The scale will print a list of the state of the scale in the network and it will begin the data loading to the slaves. After the loading, a new list with the result of the operation will be printed.

To send data to slaves, see ***section 3.6.2 Send data to slaves.***

5.2 COMMUNICATIONS CONNECTORS

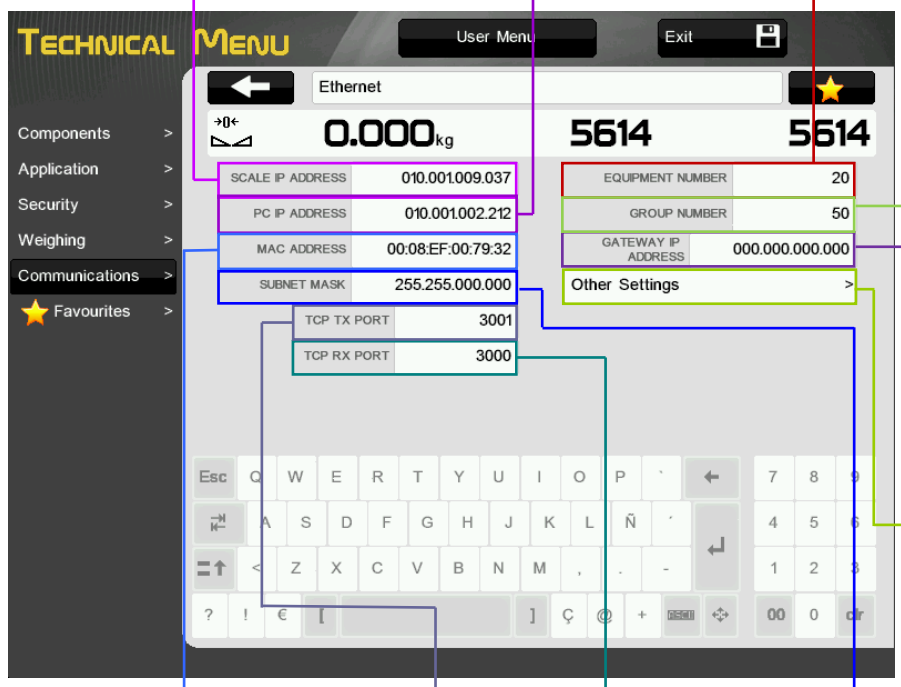
The communication connectors are located on the lower part of the scale. The arrangement and characteristics of the connectors are as follows.



BH-P4631 ETHERNET	Connector marked as: ETHERNET Ethernet Communication
SCANNER Powered 5V Only when scale off	Scanner connection Powered 5v
	Connector marked as: Drawer/Turnomatic depending model. Cash drawer Turnomatic (in hanging models)

5.3 ETHERNET COMMUNICATIONS PARAMETERS

To configure the Ethernet communications parameters of the scale select Technical Menu → Communications → Ethernet



Scale IP Address
Enter the IP address of the scale.

PC IP Address
Enter the IP Address of the computer to which the scale is connected.

Equipment Number
This number corresponds to the master address number of the scale. It must ne a number between 00 and 99.

Group Number
Enter the scale group.

Gateway IP Address
Enter the Gateway IP Address (only in case of Internet connections).

To configure other Ethernet parameters, see the *Test and Adjustment* manual.

MAC Address.
This menu displays the MAC address of the scale.It is protected by a password. Consult DIBAL 's technical support.

TCP TX Port
Enter the Tx TCP Port. (Default value: 3001).

TCP RX Port
Enter the Rx TCP Port. (Default value: 3000).

Subnet Mask
Enter the subnet mask of the scale.

5.4 TURNOMATIC

The D-900 hanging scales have the *Turnomatic* option. The scales connection is carried out by a RJ11 connector (telephone connector). The cable used will be three-way shielded, having into account the following schematic connection.

Connector RJ11:
PIN Number

1----------UP
5----------DOWN
6----------COMMON
2 to 4----------N.C.

5.5 CASH DRAWER OPENING CABLE

As the same way as the turnomatic hanging scales, the opening drawer cable, the other models, use the same RJ11 connector. Pin assignment is the following:

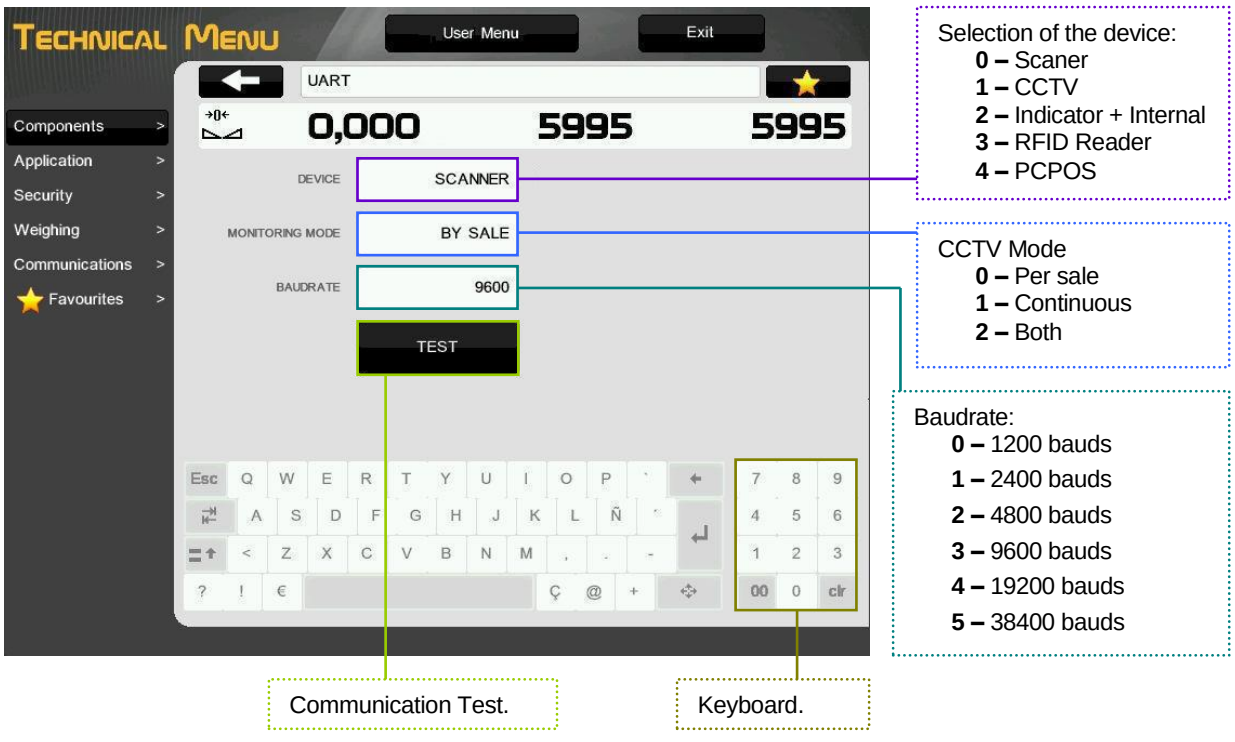
Connector RJ11:
Pin Number

2---------- GND (negative end of the electromagnet)
3---------- Indication signal of open cash drawer.
4---------- +24V (positive end of the electromagnet)
6---------- GND connection (indication signal of closed cash drawer).
1 and 5--------- N.C.

5.6 RS-232 COMMUNICATIONS PARAMETERS

This menu is used to configure the RS-232 communication parameters of the scale.
To Access the menu select: Technical Menu → Components → UART)

The communication is done at 8 bits without parity.



5.7 SCALES WITH SCANNER CONNECTION

The **D900** scales can communicate with a scanner for reading bar codes, so that the article bar codes are read and sales operations carried out on the scale.

The scanner must have the requirement COMMUNICATION SERIES RS-232 through a DB9 female connector.

The scale RS-232 connector has power output for the scanner. The DB9 powered PIN is PIN 9.

The scale software is set up with the following protocol for the scanner:

- Speed: 9600 bauds
- 8 data bits
- Without parity

The scanner must send the bar code followed by CR or LF.

5.7.1 Scanner Installation

The scanner is connected taking into account that the RS-232 connector of the scale supplies 5VDC

5.7.2 Scanner Barcode reading

All the articles will have a field called EAN in which the EAN scanner code can be entered for the particular article. In the said field, representative numbers and letters can appear within the bar code. This field is for the exclusive use of the scanner. In it, you can enter:

- 13 characters, then becoming an EAN 13
- 8 characters followed by spaces to form an EAN 8

To program the article's EAN code, enter the PLU programming option. When you reach the EAN field, enter the EAN code you require. To do so, you can:

- Read the bar code with the scanner and the value will be updated.
- Enter it manually, allowing to this end the representative numbers and letters within the bar code.

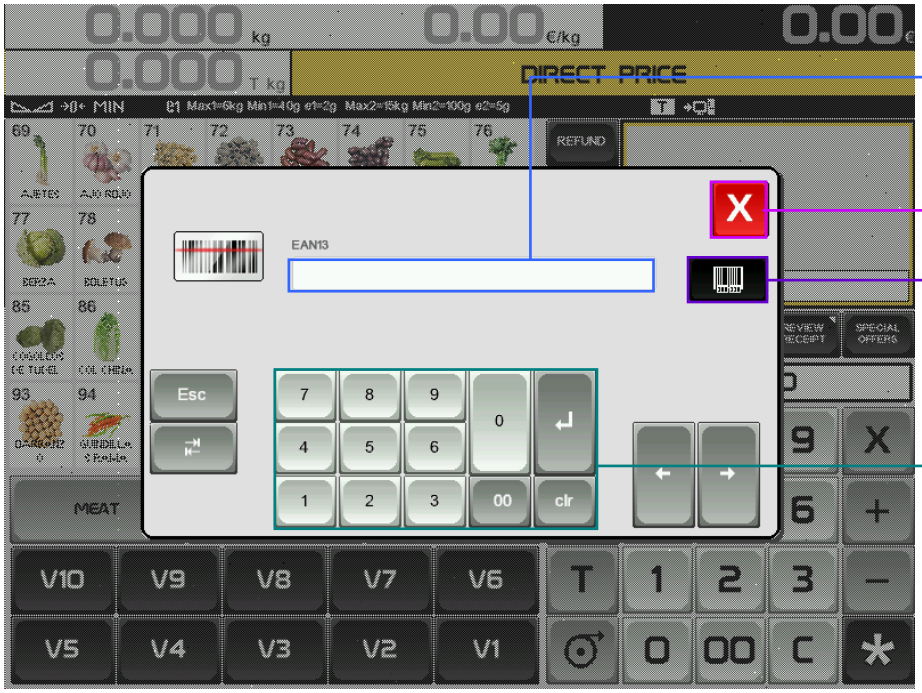
Remember that depending on whether there are 13 or 8 characters in this field, you will have an EAN 13 or an EAN 8 respectively.

> Remember that the last character of the bar code is the checksum, which is why, if you do not wish to, it is not necessary to enter it. Therefore, you will need 12 or 7 digits for each EAN (the last character is omitted).

In normal working position, when a bar code is read by a scanner, a search is made through all articles. In the case of finding an article whose EAN code corresponds, the information on this article will show up on the screen, just as if you had pressed the key corresponding to its PLU. In the case of not finding any article meeting this condition, wrong code message will appear.

If there is no scanner and you wish to make the search with the aid of the EAN scanner code, you can press the key

and the scale will show the menu to enter the barcode:



When seeking an article while programming the PLU, you can read with the scanner, and the programming of the first of the codes that meet the condition of the EAN code read by the scanner will show up.

You can also print a label with the bar code to be the article's EAN. For this purpose, you will have to **change configuration parameter of the label EAN-13 FORMAT takes the value 3**. Thus, if you are working in label mode, the bar code that the article has within the EAN scanner code will appear.

> Remember that in this case you will be able to print the direct code or the representation of certain values depending on the corresponding representative letters within the bar code.

Prices can also be interpreted on the bar code which is then read. For this purpose, the title of the article's EAN code must contain the letters E or X.

Reading with scanner AMOUNT, WEIGHT, PRICE, etc.

> To read AMOUNT, WEIGHT, PRICE, etc. with the scanner, the INTERPRETATION parameter must be set.

6 APPENDIX

6.1 LOADING IMAGES

In D-900 scales it is possible to load up to 100 advertising images, with a maximum resolution of 1024x768 pixels, and 2000 images of products with a maximum resolution of 210x210 pixels.

The article images can be loaded:

- From the PC using DFS software
- From the scale's USB port by importing a backup file with images.
- From the scale's USB port using the BMP image loader.

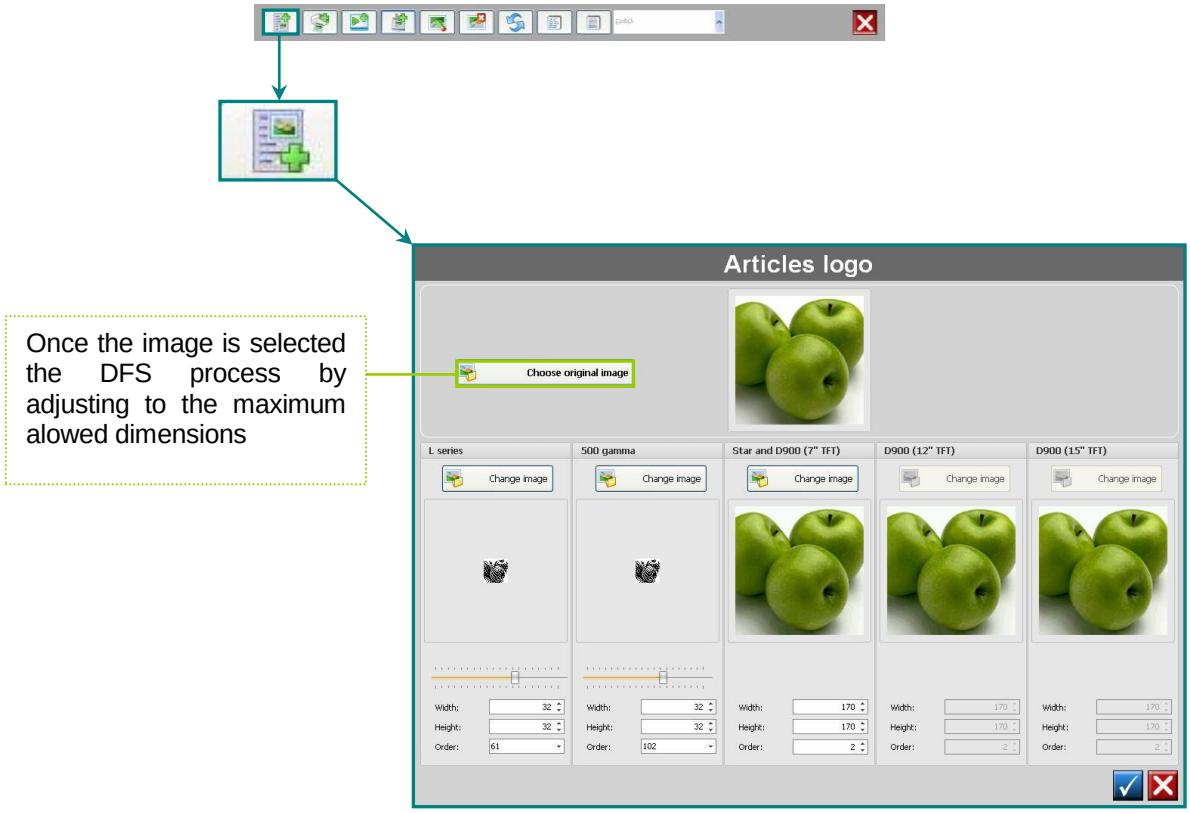
The advertising images can be loaded:

- From the PC using DFS software
- From the PC using CDA software.
- From the scale's USB port by importing a backup file with images.

6.1.1 Article Images

6.1.1.1 Loading from DFS

The article images are created in DFS software in menu Logos, with the option "New Article Logo". Once the image is selected, the DFS will process it and adjust to the maximum allowed dimensions so the image is ready to be sent to the scale.



Once the image is selected the DFS process by adjusting to the maximum alowed dimensions

By clicking on the software shows the previous menu to select a new image to be added

To send an image to the scale, select it in the list and click on Send Selection.

If you do not wish to forward directly to the scales, select the “Generate File” option. This option creates two files which contain the logos in the folder where the DFS is installed (for example, C:\Program Files (x86)\DFS\).

TX_Logos.txt
TheTX_Logos.txt file can be sent to the scales using the Send File option in the DFS main menu.

TX_LogosUSB.bck
The TX_LogosUSB.bck file is a backup file including images which can be imported to the scale from the scale’s “Load Data” menu (see paragraph 3.6.1.1 Load Data USB).

6.1.1.2 Programming products in DFS

In the product’s Data3 menu, you can select one of the programmed images as the product logo in the “Color Logo” field.

6.1.1.3 Load via USB

In order to load the images in the scale, you must import a backup file that contains images (TX_LogosUSB.bck) from the USB port to the scale using the “Load Data” menu of the scale (see paragraph ***.3.6.1.1 Loading data from USB***).

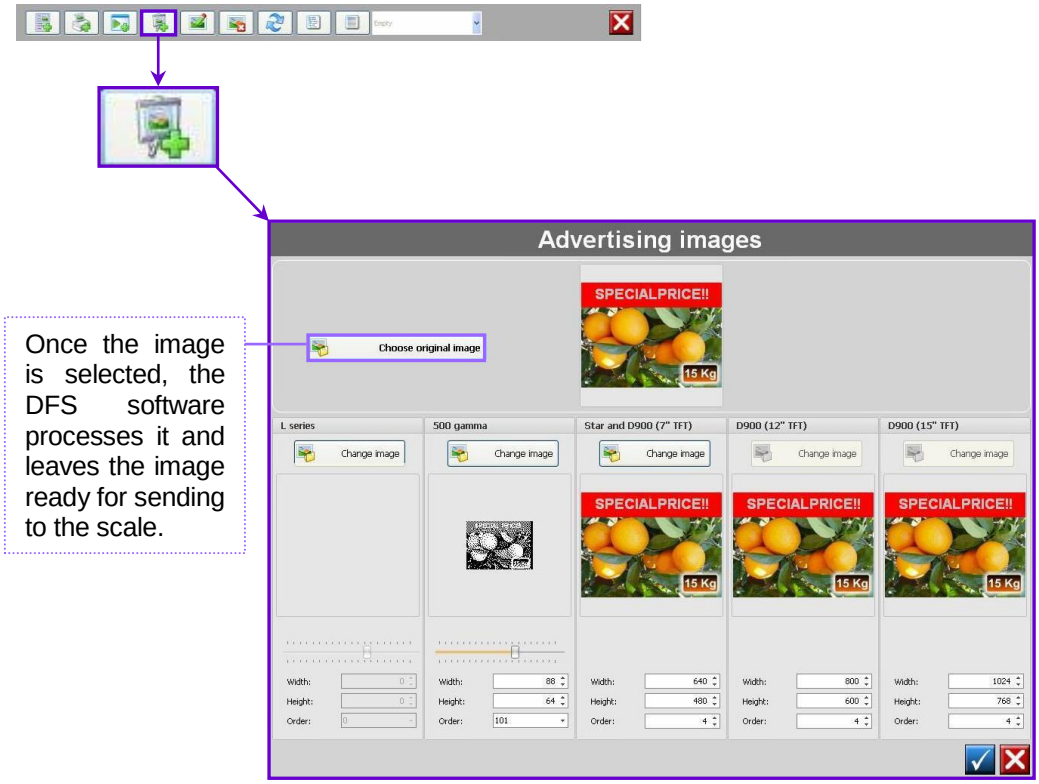
6.1.1.4 BMP images from USB

See appendix 8 “Loading BMP images”.

6.1.2 Advertising Images

6.1.2.1 Load from DFS

The advertising images are programmed in menu Logos by selecting the option New Advertising Image.



Once the image is selected, the DFS software processes it and leaves the image ready for sending to the scale.

By clicking on the software shows the previous menu to select a new image to be added.

To send an image to the scale, select it in the list and click on Send Selection

If you do not wish to forward directly to the scales, select the “Generate File” option. This option creates two files which contain the logos in the folder where the DFS is installed (for example, C:\Program Files (x86)\DFS\).

TX_Logos.txt
TheTX_Logos.txt file can be sent to the scales using the Send File option in the DFS main menu.

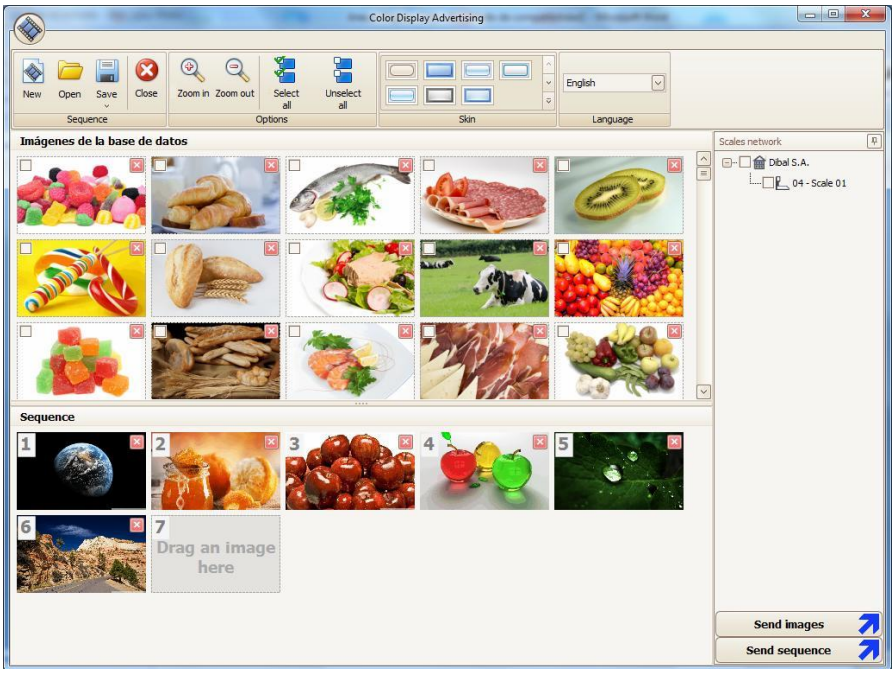
TX_LogosUSB.bck
The TX_LogosUSB.bck file is a backup file including images which can be imported to the scale from the scale’s “Load Data” menu (see ***paragraph 3.6.1.1 USB data load***).

To configure the advertising see ***paragraph. 3.3 Advertising***

6.1.2.2 Loading images from CDA (Color Display Advertising) software

The CDA application is started from the Menu: DFS software Texts-Advertising-Color. It allows you to design advertising screens and program the sequence of images that will display on the scale.

The CDA application allows to send the image sequence to the scale.



6.1.2.3 Load via USB

In order to load the advertising images in the scale, you must import a backup file created from the DFS (TX_LogosUSB.bck) from the USB port to the scale using the “Load Data” menu of the scale (see paragraph ***.3.6.1.1 Loading data from USB)***

6.1.2.4 BMP images from USB

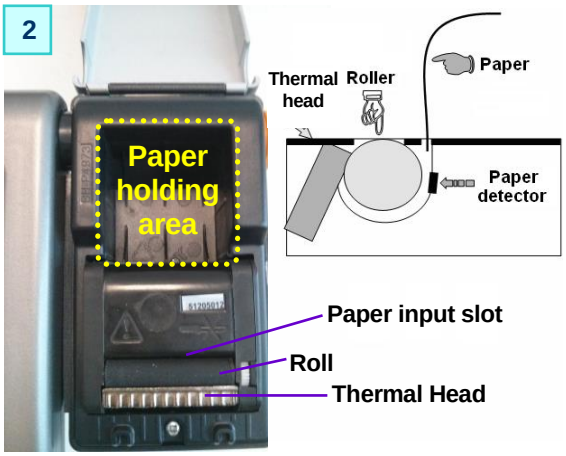
See appendix 8 “Loading BMP images”.

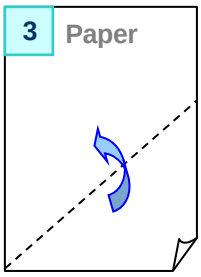
6.2 PAPER CHANGE

6.2.1 Paper change in ticket printer

To change the paper in the tickets printer, proceed as follows:

1. Open the new reel of paper and remove the part containing glue.
2. Open the cover. Remove the remains of the paper and the reel holder.
3. Bend the paper at 45º. Insert the paper in the slot. Be careful to insert it in the correct slot. Otherwise, the machine will not be able to detect the paper.
4. Press until the paper comes out on the other side of the holder.
5. Slip the paper through the slot of the lid.
6. Close the cover.
7. Press until you see the paper.





6.2.2 Change of paper in the labeler

6.2.2.1 Double Body Model

The scale is fitted with a cassette system to facilitate the job of changing the paper in the labeling machine.

1. Open the front drawer of the machine by pressing the button located on the left hand side of the machine.
2. You will then see three blue levers. Turn the lever on the right anti-clockwise to release the cartridge.
3. Remove the cartridge roll to change the paper.

Having removed the cartridge, you must open the other two levers in order to remove the old paper holder and remove the remaining cardboard.

4. Put the new reel of labels in its place within the cartridge and slip the paper through as shown in the photograph. Be careful to place the paper on top of the label holder and to line it up with the paper guide.

Close the two levers we opened after the third step.

5. Last of all, place the cartridge in the scale and turn the lever on the right clockwise.

6.2.2.2 Flat Model

The scale is fitted with a cassette system to facilitate the job of changing the paper in the labeling machine.

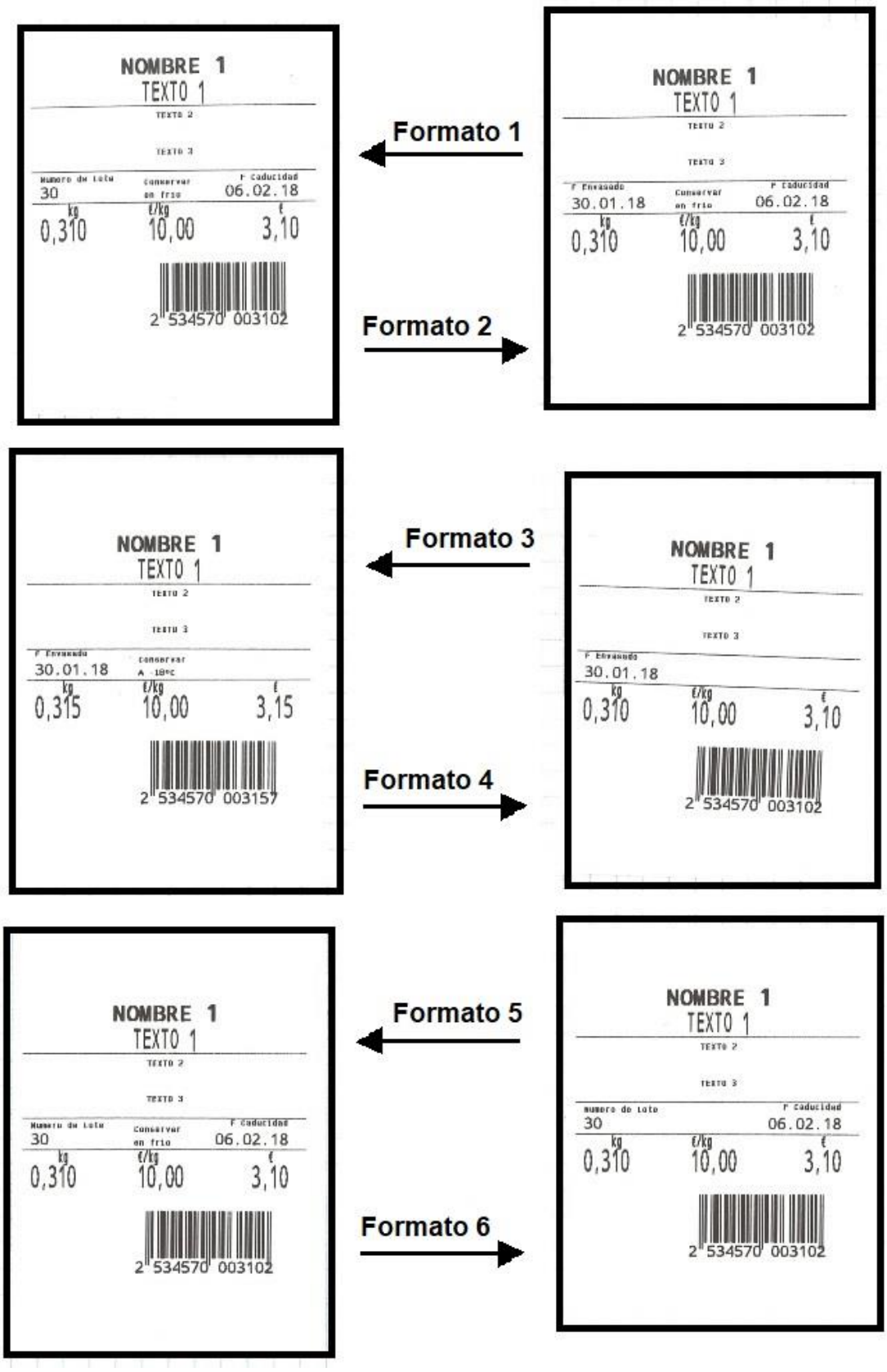
1. Open the side door of the machine by pressing the button located on the left hand side of the machine.
2. You will then see three blue levers. Turn the lever on the right anticlockwise to release the cartridge.
3. Remove the cartridge roll to change the paper

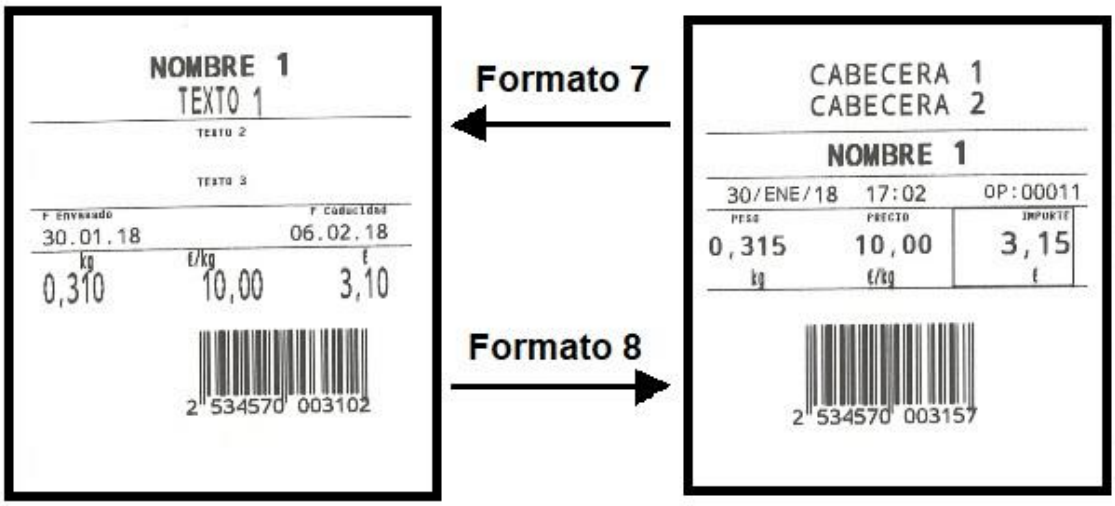
Having removed the cartridge, you must open the other two levers in order to remove the old paper holder and remove the remaining cardboard.

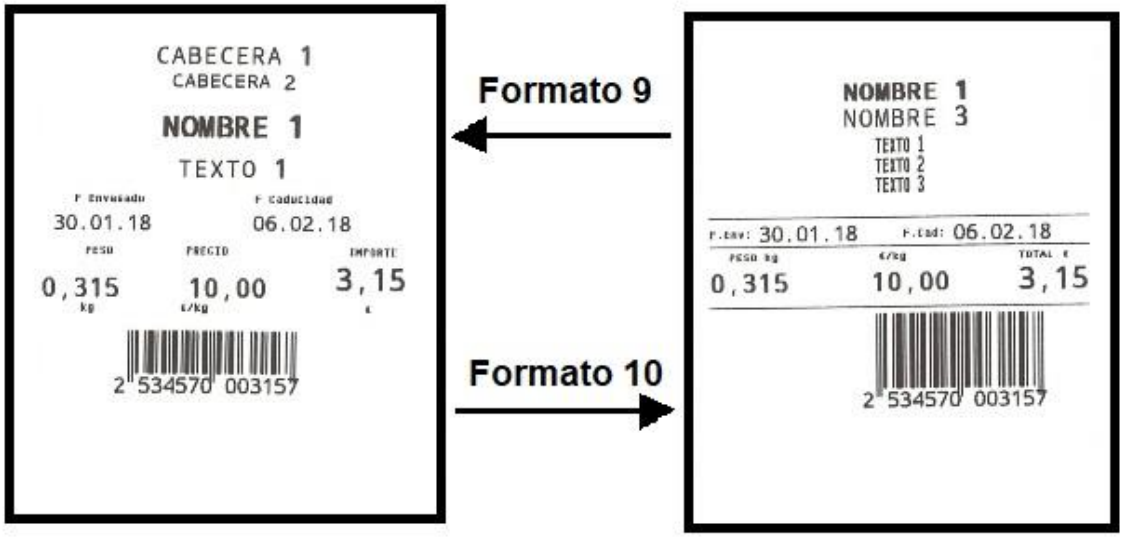
4. Put the new reel of labels in its place within the cartridge and slip the paper through as shown in the photograph. Be careful to place the paper on top of the label holder and to line it up with the paper guide
5. Last of all, place the cartridge in the scale and turn the lever on the right clockwise.

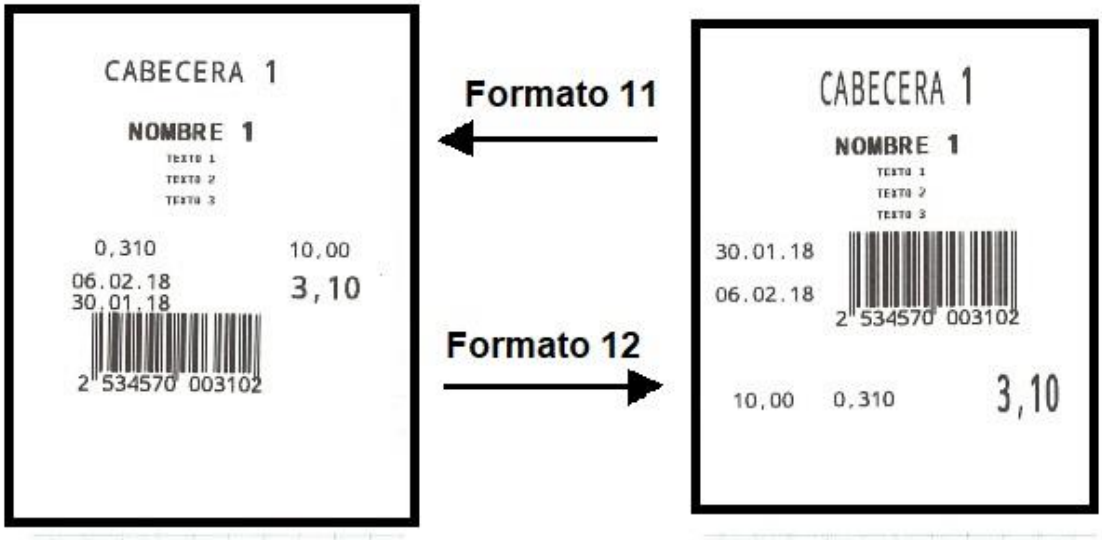
6.3 LABEL FORMATS

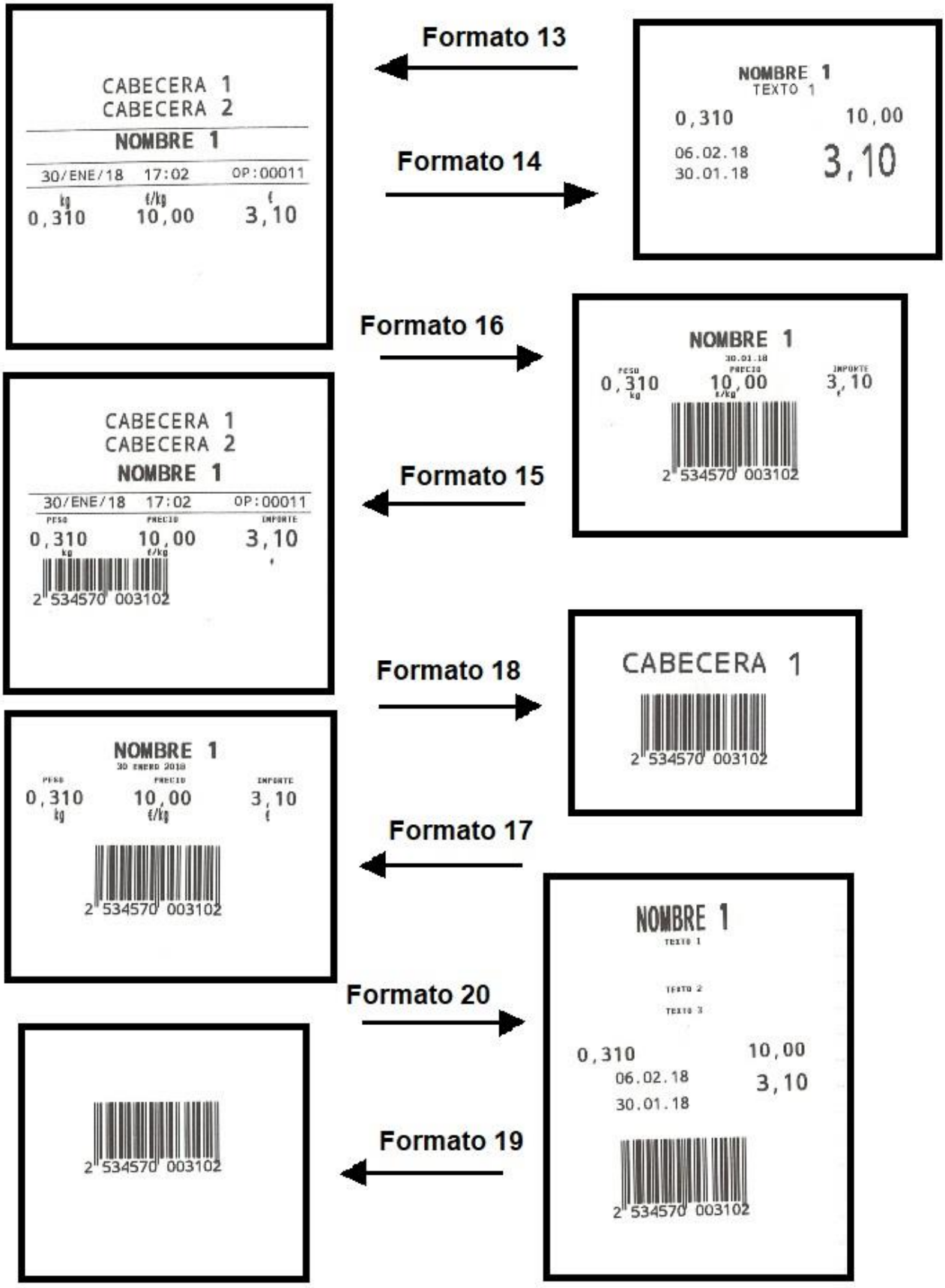
See below the programmed label formats of the scale (see ***paragraph 3.8.1 Label Formats***).




NOMBRE 1
TEXTO 1
TEXTO 2
TEXTO 3
F Envasado
30.01.18
F Caducidad
06.02.18
kg
0,310
€/kg
10,00
€
3,10
2 534570 003102
Formato 7
Formato 8
CABECERA 1
CABECERA 2
NOMBRE 1
30/ENE/18 17:02 OP:00011
PESO
0,315
kg
PRECIO
10,00
€/kg
IMPORTE
3,15
€
2 534570 003157


CABECERA 1
CABECERA 2
NOMBRE 1
TEXTO 1
F Envasado
30.01.18
F Caducidad
06.02.18
PESO
0,315
kg
PRECIO
10,00
€/kg
IMPORTE
3,15
€
2 534570 003157
Formato 9
Formato 10
NOMBRE 1
NOMBRE 3
TEXTO 1
TEXTO 2
TEXTO 3
F.Env: 30.01.18
F.Cad: 06.02.18
PESO kg
0,315
€/kg
10,00
TOTAL €
3,15
2 534570 003157


CABECERA 1
NOMBRE 1
TEXTO 1
TEXTO 2
TEXTO 3
0,310
10,00
06.02.18
30.01.18
3,10
2 534570 003102
Formato 11
Formato 12
CABECERA 1
NOMBRE 1
TEXTO 1
TEXTO 2
TEXTO 3
30.01.18
06.02.18
2 534570 003102
10,00
0,310
3,10


CABECERA 1
CABECERA 2
NOMBRE 1
30/ENE/18 17:02 OP:00011
kg €/kg €
0,310 10,00 3,10
Formato 13
Formato 14
NOMBRE 1
TEXTO 1
0,310 10,00
06.02.18
30.01.18
3,10
Formato 16
Formato 15
NOMBRE 1
30.01.18
PESO PRECIO IMPORTE
0,310 10,00 3,10
kg €/kg €
2 534570 003102
CABECERA 1
CABECERA 2
NOMBRE 1
30/ENE/18 17:02 OP:00011
PESO PRECIO IMPORTE
0,310 10,00 3,10
kg €/kg €
2 534570 003102
Formato 18
Formato 17
CABECERA 1
2 534570 003102
NOMBRE 1
30 ENERO 2018
PESO PRECIO IMPORTE
0,310 10,00 3,10
kg €/kg €
2 534570 003102
Formato 20
Formato 19
NOMBRE 1
TEXTO 1
TEXTO 2
TEXTO 3
0,310 10,00
06.02.18 3,10
30.01.18
2 534570 003102
2 534570 003102

Sizes of the programmed label formats

Format	Size
1	60x60 mm
2	60x60 mm
3	60x60 mm
4	60x60 mm
5	60x60 mm
6	60x60 mm
7	60x60 mm
8	60x60 mm
9	60x60 mm
10	60x60 mm
11	60x60 mm
12	60x60 mm
13	60x40 mm
14	60x40 mm
15	60x40 mm
16	60x40 mm
17	60x40 mm
18	60x30 mm
19	60x30 mm
20	60x75 mm

6.4 REGISTER VOUCHER FORMATS

The voucher formats are related to the format of labels carrying totals as can be appreciated in the chart below:

LEVEL 1 TOTALS LABEL FORMATS	VOUCHER FORMATS
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 y 20	1 (60x60 mm)
13, 14, 15, 16, 18, 19	2 (60x40 mm)
17	3 (60x40 mm)
21 to 60	programmable

FORMATO 1

FORMATO 2

FORMATO 3

6.5 TROUBLESHOOTING

DIBAL D-900 scales carry out a test to check for anomalies whenever they are started up, error messages being emitted by the scale if any are detected.

Below is a list of the more frequent problems and error messages as well as how to tackle the said problems.

6.5.1 Problems with weighing

The following problems and error messages may arise with regard to weighing.

ZERO ERROR

- Ensure the weighing plate is free.
- Ensure no object is in contact with the plate.

THE SCALE BLOCKS

- Keeping the plate empty, turn the scale off and then on.

THE SCALE DOES NOT WEIGH CORRECTLY

- Check the plate and the base, and turn the scale off and on again.

THERE IS NO WEIGHT ON THE PLATE AND YET THE WEIGHT VALUE IS NOT ZERO

- Press the zero setting key →0←

THE WEIGHT IS NEGATIVE

- Restart the scale, making sure that the weighing plate is empty.

6.5.2 Communication errors

The main problems and error messages referring to communication continue:

COMMUNICATIONS ERROR

- Ensure the scale is correctly addressed. If it is working as a scale without communication with other scales, ensure it has been set up as a **master** (see paragraph ***5.1.1.1 Master & Slaves Settings***).
- If it is connected to another scale, check:
  - That there is only one **master** scale in the entire section.
  - That there is only one address for all the slaves within the same section.
  - That the communication leads are connected correctly.

THERE IS NO COMMUNICATION BETWEEN THE SCALE AND THE COMPUTER

- Check the connections in the scales
- Check the Ethernet communication in *paragraph* ***5.3 Ethernet communication parameters***.

THERE IS NO COMMUNICATION BETWEEN SCALES

- Check the connections in the scales
- Check the set-up and address of the MASTER/SLAVES scale in ***paragraph 5.1.1.1 Master & Slaves Settings***.

6.5.3 Printing Problems

The following problems and error messages may arise in relation to the printing of receipts and self-adhesive labels:

THE QUALITY OF THE PRINTING IS NOT UP TO STANDARD

- Adjust the parameters for contrast in the printer in paragraphs ***3.8.2.8 Other Labeler Settings (labeler) and 3.9.3 Receipt Printing (Receipt).***
- Wipe the thermal head with a dry cloth.

THE RECEIPT IS NOT FULLY PRINTED

- Set the parameter END OF RECEIPT LINES *(see* ***paragraph 3.9.2.3 Lines end of ticket*** at a value other than zero.

THE LABEL IS NOT PRINTED

- Register the sales assistants (see paragraph ***3.2.1 Quick Vendors Creation***).
- Check that the selected article is registered.
- Check that the labeling machine is correctly set-up (see ***paragraph 3.8.2 Labeler Settings***).
- Check that the self-adhesive label paper is correctly in place.

THE LABEL IS NOT PRINTED IN THE REQUIRED FORMAT

- Check the label format and size (see ***paragraph 3.8 Label***).

THE EURO FIELD IS EITHER INCORRECT OR FAILS TO APPEAR

- Check ***paragraph 3.9 Receipt***.
- Check that the label format incorporates the sections dealing with the Euro (see ***paragraph 3.8.1.1 Program Label Formats***).
- Check the current phase of the EURO (Technical Menu → Application → Euro Stage).

LABEL ERROR

- Replace the reel of self-adhesive labels with a new one.

PAPER ERROR

- Change the thermal paper reel.

6.5.4 Problems with the screen

The following problems may arise in relation to the display:

THE SALES ASSISTANTS' KEYS ARE NOT SHOWN

- Program the vendors (see ***paragraph 3.2.1. Quick Vendors Creation***).
- Verify that the programmed vendors are configured as visible (see ***paragraph 3.2.2 Vendors Edition***).

THE SECTION KEYS ARE NOT SHOWN

- Program the sections (see ***paragraph 3.4.1 Sections***).
- Verify that the programmed sections are assigned to a section key in the display (see ***paragraph 3.7.2.4. User Display Configuration, Sections***).

6.5.5 Problems with the Touch Screen

In the case of having problems with the touch screen:

TOUCH SCREEN CALIBRATION

- Normal calibration: go to Technical Menu → Components → Touch Screen → Touch Calibration. Follow the steps displayed on the screen.
- Emergency calibration: switch on the scale and when the message PUSH TO ENTER LOADER appears, press and hold the display for 10 seconds. Follow the steps displayed on the screen.

6.5.6 Programming Problems

The following difficulties may arise when trying to program the scale:

THE SCALE CANNOT BE PROGRAMMED

- Ensure the scale is set up as a MASTER (see ***paragraph 5.1.1.1 .Master & Slaves Settings***).
- Ensure the function you wish to program is activated in the *Technical Menu*.

If the problem is not solved by following these different possible solutions, consult your DIBAL Dealer to obtain the available resources for the support and maintenance of the scale.

7 LINERLESS

The “LINERLESS” system uses for printing a special type of adhesive, thermal paper without backpaper.

7.1 MODELS

The D-900 scales equipped with the “LINERLESS” option can also print standard continuous paper or adhesive continuous labels just changing the labels cassette.

The option “Linerless” is available only in scales that include the labels cassette.

7.2 LABELING ASSEMBLY

The “Linerless” labeling assembly includes the following changes:

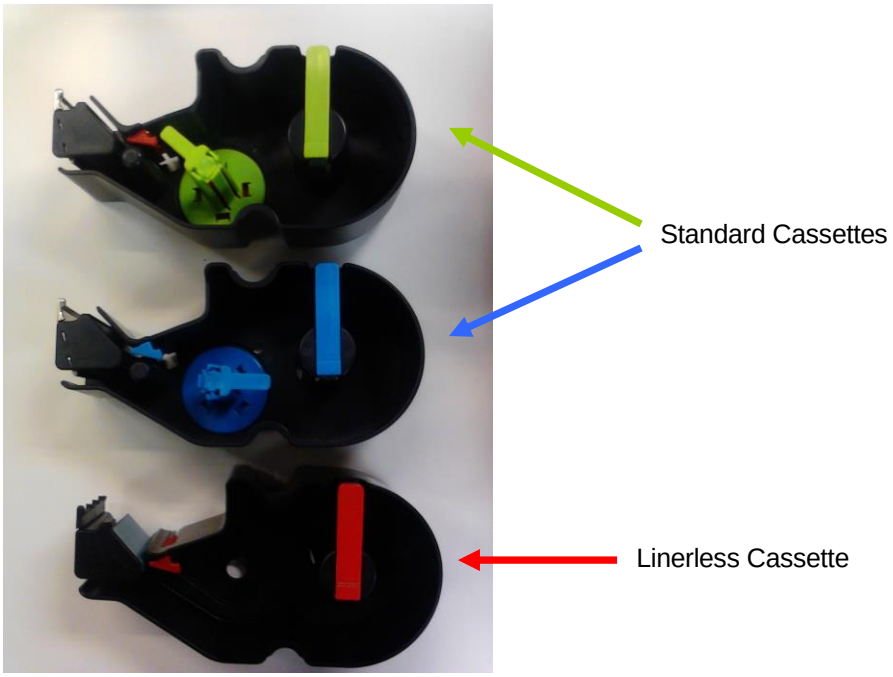
- New labels transport silicone roll, different to the standard one
- New cassette, without backpaper rewinder.

7.2.1 Linerless cassette

The labels cassette in models “Linerless” has a special design, different to the standard one.

The main differences between the linerless cassette and the standard one are the following:

- The closing system for paper roll and the clip for selection of paper width are red colored.
- There is not backpaper rewinder.



7.2.2 Incompatibilities

The scales with linerless printing assembly can also print: standard labels (with backpaper), adhesive continuous paper (with backpaper) and continuous paper (non adhesive).

The scales with standard labeling assembly can't print in Linerless paper.

7.3 CONFIGURATION

To activate the printing with linerless paper, it is necessary to configure the parameter Type of Paper with the value 3 (Linerless).

See ***paragraph 3.8.2.1 Type of paper***.

7.4 RECOMMENDATIONS OF USE

Program the printing contrast with a value of 5 or higher.

Adjust the position of the clip for selecting paper width in order to avoid paper shift during the printing.

Clean the thermal head more frequently (at least once per week).

Never use metallic elements for cleaning the thermal head.

Avoid long periods of storage of the linerless paper because it could damage and cause a wrong functioning of printing.

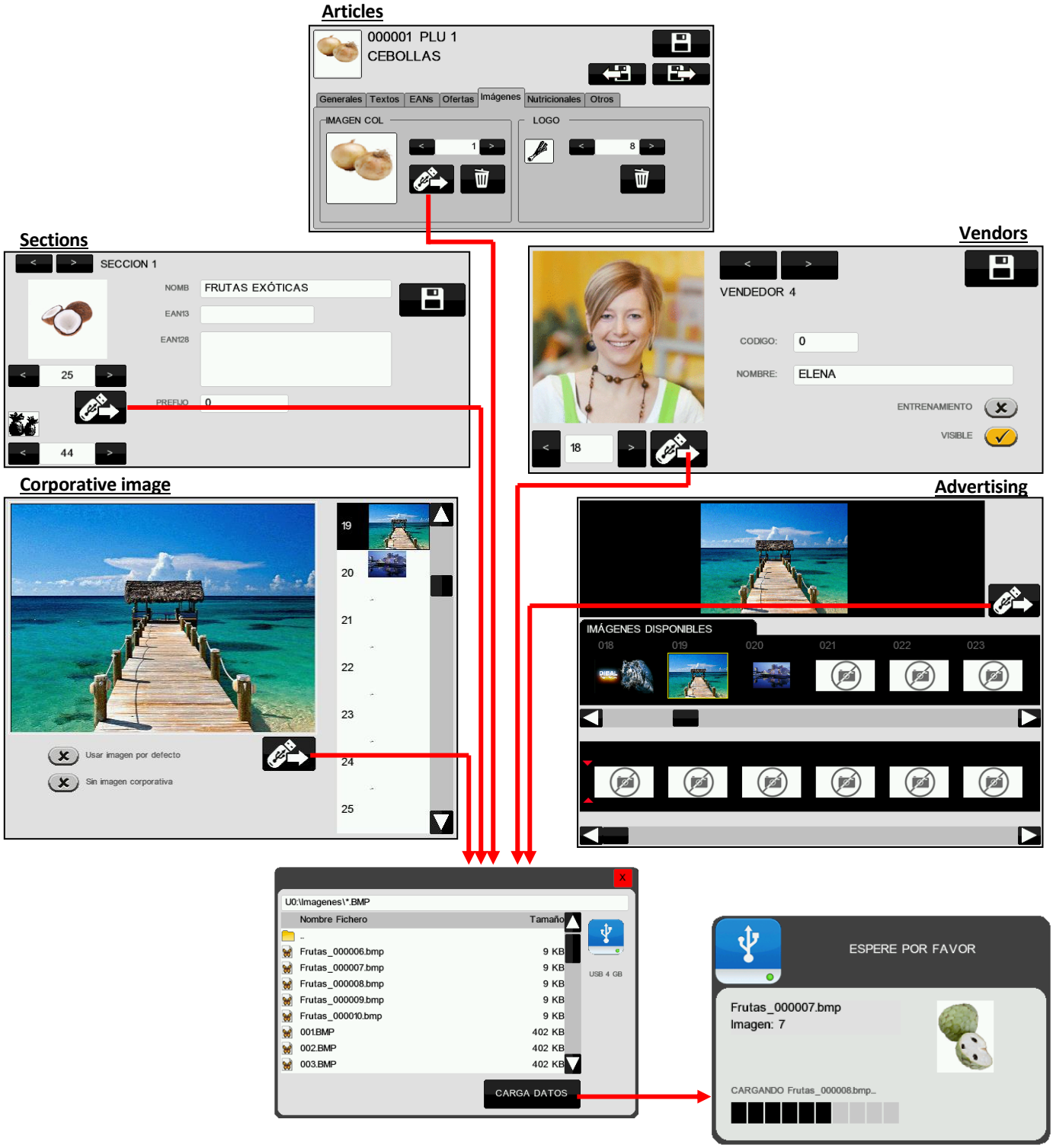
Remove the linerless paper from the scale in case of a long period of inactivity.

8 BMP IMAGE LOADING

In all screens where you can select an image, there is a button for loading an image from a USB device. The images must be in 8-bit BMP without RLE compression format (256 colours).

8.1 LOADING ONE IMAGE

As can be appreciated in the diagram below, you can load an image from any of the screens with images. To do so, just press the icon, select the image and press .



8.2 LOADING IMAGES FROM USB

From the Tools menu you have the option to load images from the USB, which allows you to load several images, of the item or advertising.

8.2.1 Automatic loading of item images

It is possible to automatically load images of the item. To do so, the name of the images must be generated in a particular way.

- **Prefix or name:** it must be the same for all the images and must be made up of a valid alphanumeric string.
- **Number:** it must be a number made up of 6 digits. This number must be the same as the item code to be associated. Remember that the 000000 code cannot be used.

Below are a few examples of how to code images:

Prefix **FRUIT**_
FRUIT_000001.BMP, FRUIT_000002.BMP, FRUIT_000003.BMP….

Prefix **Img**
Img000004.BMP, Img000005.BMP, Img000010.BMP, Img000088.BMP….

Once the images are ready for loading, carry out the loading as shown in section 8.3 **Operation**.

8.2.2 Automatic loading of advertising images

It is possible to automatically load advertising images. To do so, the name of the images must be generated in a particular way.

- **Prefix or name:** it must be the same for all the images and must be made up of a valid alphanumeric string.
- **Number:** it must be a number made up of 3 digits. This number must be the same as the order in which you require it to be in the sequence. Remember that the 000000 code cannot be used.

Below are a few examples of how to code images:

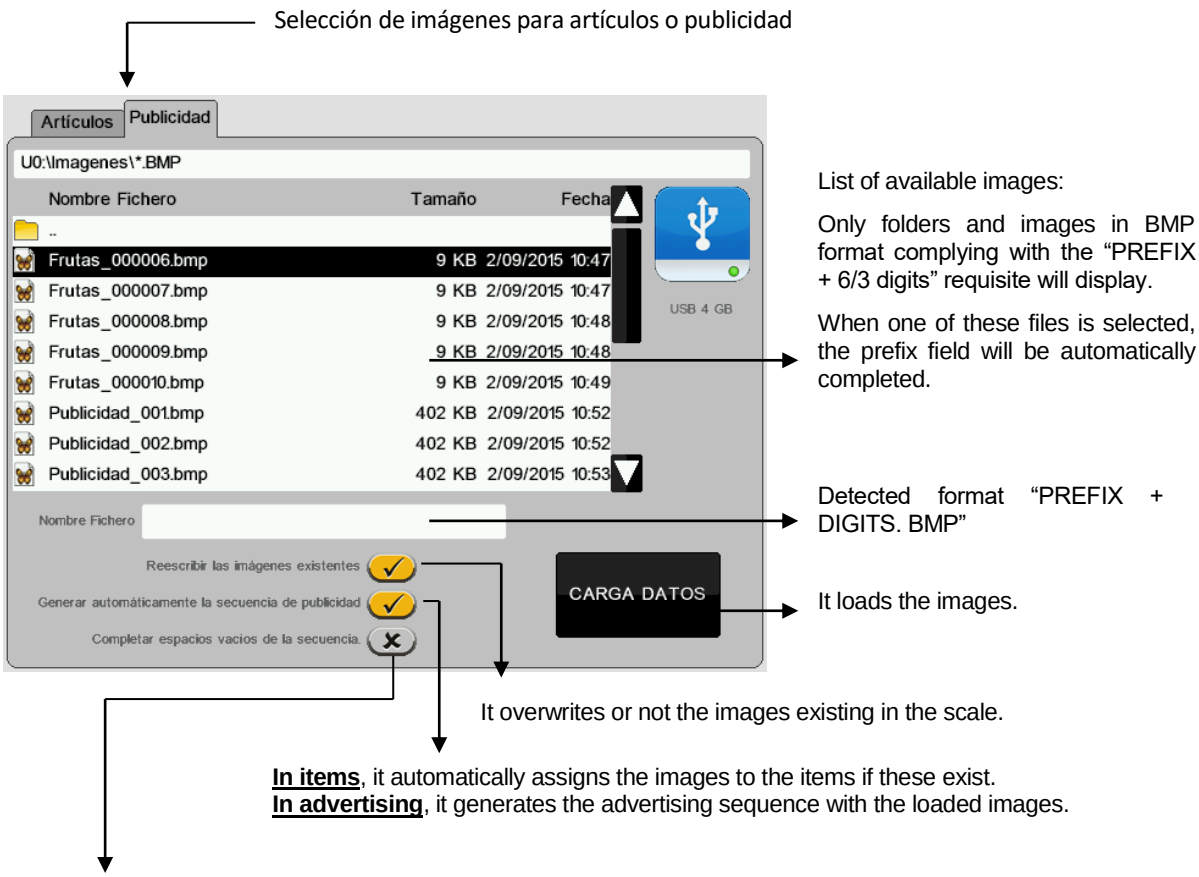
Prefix **ADVERTISING**_
ADVERTISING_001.BMP, ADVERTISING_002.BMP, ADVERTISING_003.BMP ….

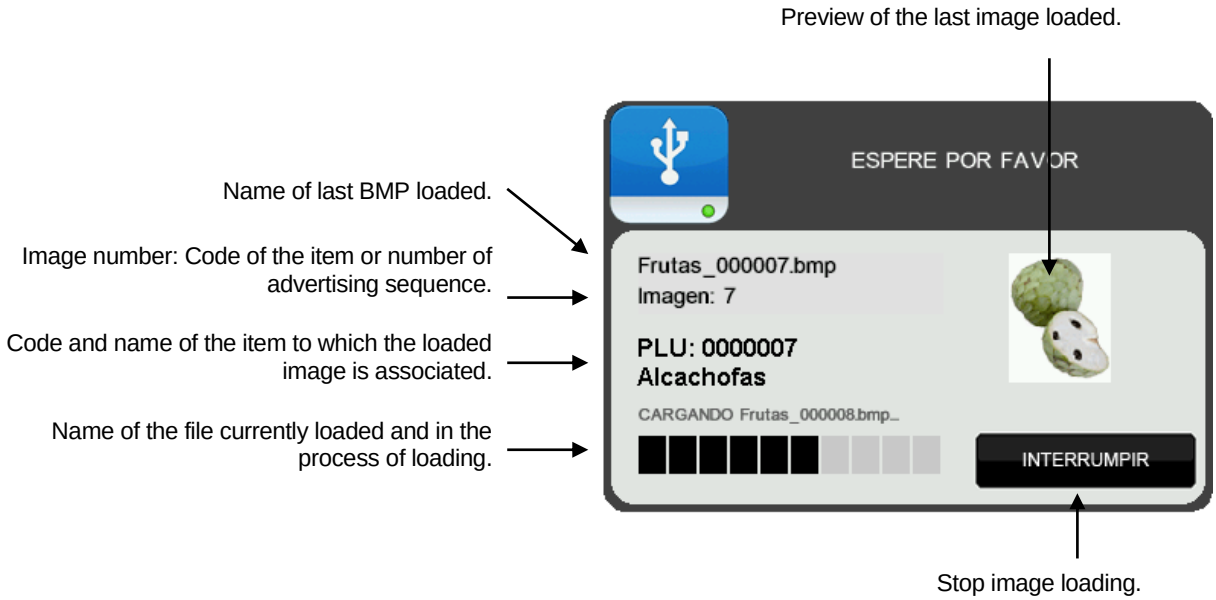
Prefix **Img**
Img004.BMP, Img005.BMP, Img010.BMP, Img088.BMP….

Once the images are ready for loading, carry out the loading as shown in section **8.2.3 Operation**.

8.2.3 Operation:

Selecting images for items or advertising





9 DECLARATION OF CONFORMITY

Scan the QR code or click on the link below to view the declaration of conformity.

http://www.dibal.com/DeclaracionesConformidad/

The information contained in this manual can be changed by the manufacturer without prior notice.

Ref.: 49MD900EN18 16/12/2019
Versión Firmware: V107H

Astintze, 26 - Pol. Ind. Neinver - 48160 - DERIO (VIZCAYA) - SPAIN . Tel: (+34) 94 452 15 10 - Fax: (+34) 94 452 36 58

www.dibal.com

DIBAL