

500 Range



Star

S-540, S-545, S-547



USER'S MANUAL

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1. INTRODUCTION

1.1. PRESENTATION

The **500** weighing scale Range are the top of the DIBAL range, especially designed for use in direct sales to the public.

DIBAL's 500 weighing scale Range are a powerful work tool that will permit you to reap maximum benefit from 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 **500** Range offer:

- Graphic LCD Display with background light.
- 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 programme.
- 5 VAT rates.
- Connection to cash drawer or turnomatic.
- Logos on receipt / label.
- Different range types (see characteristics chart 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. WEIGHING SCALES SPECIFICATIONS

1.3.1. General

POWER SUPPLY.....	110/230 VAC,50Hz, 1,3A
PRINTING METHOD	THERMAL PAPER
DISPLAY.....	According to model* * <i>DISPLAY SUPERLUX, DISPLAY BLUE L or DISPLAY BLUE XXL</i>
PAPER SIZE OF LABELLING MACHINE	Dimensions: Width x Length Maximum Length: 150*mm <i>Max. 150mm. Models: S-547.</i> Minimum Length: 30*mm <i>Models: S-545 and S-547.</i> Minimum Width: 20*mm <i>Models: S-545 and S-547.</i> Width with support: 63*mm <i>Models: S-545 and S-547.</i>
PAPER SIZE OF RECEIPT	External diameter 100* mm *According to model <ul style="list-style-type: none">• External diameter: 57mm. <i>Models: S-540 and S-547.</i>• External diameter: 62mm. <i>Models: S-545.</i>• Big Roll: 100mm. <i>Models S-545 y S-547.</i>
COMMUNICATION TO SCALES	Ethernet* *Wireless, Homeplug
COMMUNICATION TO PC.....	Ethernet* *Wireless, Homeplug
CANAL DE COMUNICACIÓN OPCIONAL.....	USB
TEMPERATURE FOR OPERATION.....	-10°C to +40°C
PRECISION	1/3000 1/6000 MAX. RANGE

1.3.2. Accessories

POWER SUPPLY CABLE
ADHESIVE LABEL ROLL
RECEIPT ROLL
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1.4. INSTALLATION OF SCALES


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. If the scales have a battery option, see Annex Battery operation.
5. Only use the scales in areas that comply with the room temperature values stated on the specifications label (-10°C to 40°C).
6. Peripheral devices connected to the equipment must be protected against fluctuation peaks of above 8A 100VA.
7. The scales must be placed on a stable, level surface.
8. No objects must come into contact with the dish.
9. Avoid extreme temperatures. Do not place the scales in direct sunlight or close to air conditioning vents.
10. 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.

1.5. MAINTENANCE ADVICE AND HOW TO LOOK AFTER YOUR 500 RANGE 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 dish
4. Always keep the keypad and dish 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 authorised 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.
12. If the scales are operated with a battery, follow the recommendations given in Annexe Battery operation.

 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 2009/23/EC), 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. 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, programme version and maximum range of the scales is shown.


99999	99999	
99999	99999	
H5XX	ESP	V010N

----	----
----	----
ALC	15kg

0.000	0.00
0.000	0.00

When the countdown is complete, and no errors have been detected, articles and ingredients are checked, and the display shows some dashes to indicate the scale range.

 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 NET) during the starting up, and if 5 seconds later, the corresponding MASTER is not working, the message COMUNIC ERROR, will appear.

2.2. STARTING UP

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

- STEP 1:** Install the scales as described in *sect 1.4.INSTALLATION OF SCALE* and switch on as described in *sect. 2.1.SWITCHING ON*.
- STEP 2:** Programme the weighing scale communications, i.e., set up the scales as MASTER or SLAVE and assign the corresponding address (See *sect.7.4.1.1 Set up as MASTER-SLAVE*)
- STEP 3:** If the scales are being used for the first time, or you wish to programme them again, the memory should be deleted. (See *sect. 7.3.4. INITIALIZATION OF SCALE*)
- STEP 4:** Assign each of the sales assistants who is to use the scales one of the 20 available memories, i.e. register the employees (See *sect. 4 REGISTERING VENDORS*)
- STEP 5:** Programme the articles. (See *sect. 3.1ARTICLES*)
- STEP 6:** If the scales are for operation in a EU country, check that the current EURO PHASE is set up correctly. (See *sect. 11.1.7 PROGRAMMING EURO*)
- STEP 7:** Select the receipt format or programme a new one (See *sect 9.2 RECEIPT*)
- STEP 8:** Programme printing parameters (See *sect. 11.4. PRINTING PARAMETERS*)
- STEP 9:** Set up the label formats (See *sect. 9.11 PROGRAM LABEL FORMAT*)
- STEP 10:** Start to work with the scales, referring to the next *section 2.3 HOW TO OPERATE THE SCALES*.

2.3. HOW TO OPERATE THE SCALES

DIBAL 500 Range weighing scale are specially designed to simplify the sales assistant's work, ensuring a high level of speed and reliability on the part of the system, whether the latter is one set of weighing scales or a network of MASTERS and SLAVES connected to a PC.

The starting point of all explanations is the work status when the weight, price and amount is 0.

2.3.1. Direct price

The direct price must be activated in order to enter a price with the number keys. To do this:

1. Check that the scales have been set up correctly. (See Sect. 5.1.2.4, *DIRECT PRICE*)
2. Press **F4** until the words **DIRECT PRICE** appear on the display.
3. Thus, when a weight is placed on the platform, the number keys can be used to enter the price.
4. To deactivate the direct price, simply press **F4** until **DIRECT PRICE** disappears from the display.

F4

0.000	0.00
0.000	0.00
DIRECT PRICE	

F4

0.000	0.00
0.000	0.00

2.3.2. Normal weight

In order to weigh a product, proceed as follows:

1. Place the product to be weighed on the platform.
2. Enter the price using one of the following methods:

-Directly with the number keys and then by pressing the corresponding memory key. To do this the *DIRECT PRICE* must be activated. (See 5.1.2.4. *DIRECT PRICE*)

-By entering the article code (check that it is in the corresponding department and be careful to enter all the digits in the code: code 212 is not the same as 000212!!). To do this the *DIRECT PRICE* must be deactivated. (See sect . 5.1.2.4 *DIRECT PRICE*)

-Press the corresponding direct key (check that it is in the corresponding department of the corresponding PLU).

In the event of an error, press **C** to set the price to zero.

3. If you wish to see the price and amount in the secondary currency, press keys **SHIFT** and **F3**.

0 0 0 2
1 2

0.410	0.00
0.000	0.00
000212	

SHIFT F3

0.410	5.00
0.000	2.05
<Article name>	

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V1

0.410	832
0.000	341
^Euros^	

0.410	5.00
0.000	2.05
<Article name>	

- Memorise the operation for the corresponding sales assistant by pressing one of the, **V1**, **V2**..., **Vxx** keys. These memory keys must have been registered beforehand. (See *sect. 4.1. REGISTERING VENDORS*).
- Remove the article and then start again with the next one.

If you want to check the total amount of sale before totalizing, hold pressed the vendor's key of the corresponding sale for 2 seconds. The display will show for a few seconds the number of sales the vendors has until that moment.

2.3.3. Non-weight operations (adding, subtraction and multiplication)

The scales are able to function with articles that are not sold by weight (price/kg), but which have a price per article, such as a bottle of milk.

The scales must be programmed to enable adding, subtraction and/or multiplication operations. (See *sect. 5.1.2.5 MULTIPLICATION, 5.1.2.7 SUBTRACTION and 5.1.2.6 ADDITION*).

The method of operation is as follows:

+

(+)

1 2 0

(+)

V1

(x)

X 4

Units

- Press **+** or **-** depending on whether you wish to add or subtract.
- Enter the price/unit of the product, as explained in section 2.3.2 *NORMAL WEIGHT*. In the event of an error, press **C** to set the price to zero.
- Memorise the operation for the corresponding sales assistant by pressing one of the **V1**..., **Vxx** keys. These memory keys must have been registered beforehand. (See *sect. 4.1. REGISTERING VENDORS*)

If more than one unit is to be added or subtracted before being memorised, press **X** and enter the number of products.

! If the MULTIPLICATION parameter is set to "2", then the units must be indicated in all unit sales. Therefore, if an attempt is made to memorise a unit sale that is not multiplication, the scales will beep and the following message will appear on the display:

"Enter units".

2.3.4. Manual zero

SHIFT 0

0.000	0.00
0.000	0.00

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 keys **SHIFT** and **0**, to reset the weight to zero.

2.3.5. In line discount

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

PRINT

0.000	0.00
0.000	0.00

1. Check that the parameter for applying discounts has been set up correctly. (See sect. 5.1.3.6. *DISCOUNT IN LINE*)

2. Press **PRINT** until the symbol E **disappears** from the display. This indicates that the scales are in receipt mode.

3. Effect the normal weight operation as far as the memorisation step, without actually memorising.

4. Press **0**.

5. 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.

6. Memorise and continue with normal operation.

0

0.410	dct 00
0.000	2.00
<Article name>	

5 0

0.410	dct 50
0.000	2.00
<Article name>	

V1

2.3.6. Receipt printing: calculation of change and discount

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

PRINT

0.000	0.00
0.000	0.00

1. Press **PRINT** until the symbol E **disappears** from the display. This indicates that the scales are in receipt mode.

2. Effect a memorisation operation in accordance with the sections above. For example, with sales assistant **V4**.

3. To print the receipt 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 **V4**.

V4

VENDOR TOTAL?	
---------------	--

4	5.00
total	

V4

USER'S MANUAL

2 0
*

4	4.10
total	4.10
M=1	dct 00

*
F1
Vx

4	4.10
total	3.28
M=1	dct 20

Tendered:	20.00
TOTAL:	15.00
Change:	5.00

5. If the option DISCOUNT ON TOTAL is activated (See sect . 5.1.3.5 *DISCOUNT ON TOTAL*), then the memory number, number of articles and sum total will be shown. The scales will request the discount percentage to be applied to the receipt. Enter the desired value (for example 20%) and press *. If no operation is effected with the scales for 15 seconds, the receipt is directly printed.

If parameter 335 is programmed (Discount on Total) as "2", i.e., discount on request, the discount can be applied by pressing * F1 and the corresponding sales assistant key Vx .

If the discount on total is not activated, the selected memory number, number of articles and sum total will be shown, and when * is pressed, the receipt will be printed.

6. If the option CALCULATE EXCHANGE is activated (See sect . 5.1.3.1 *CALCULATE EXCHANGE*), 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. If the amount tendered by the customer is not entered for 15 seconds and the * key is not pressed, the receipt is directly printed.

If no other operation is effected using the same memory, the receipt may be printed as many times as required (See sect. 5.1.5.3. *COPIES OF RECEIPT*), and the following text will appear on the receipts:

*** Copy ***

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

2.3.7. Review receipt

0

SUBTOTAL SALES	
----------------	--

V4

004	
Subto	0.36
11111	
<Article>	

+
C

0.865	1.25
Article	01
11111	

MENU

TOTAL SALES ASSIST	
--------------------	--

To review operations effected by a sales assistant **before** the corresponding receipt is printed, check that parameter 3128 is set up correctly (See sect .5.1.2.8 *SUBTOTAL*), proceed with the following steps:

1. Press the subtotal key 0.
2. Press the corresponding sales assistant's memory key.
3. SEARCH for the operation to reviewed on the receipt using the keys + and -. If you wish to DELETE the selected operation, press C.
4. To return to normal operation status, press MENU.

2.3.7.1. Complete deleting receipt

If you wish to cancel the entire receipt, Follow the next steps:

<p>◊</p> <p>V4</p> <p>0</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;">SUBTOTAL SALES ASSIST</div> <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">001</td> <td style="width: 50%;"></td> </tr> <tr> <td>Subto</td> <td style="text-align: right;">0.36</td> </tr> <tr> <td>M: 04</td> <td></td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Delete receipt</div>	001		Subto	0.36	M: 04		<ol style="list-style-type: none"> 1. Press the subtotal key ◊. 2. Press the corresponding sales assistant's memory key. 3. Press 0. 4. The scale will ask if you wish to delete the receipt. In order to delete press *, if not press C.
001								
Subto	0.36							
M: 04								

2.3.8. Receipt reopening

It is possible to reopen the receipt when it has already been printed. Parameter 3154 must be activated.(See sect. 5.1.5.4: RECEIPT REOPENING).

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

<p>◊</p> <p>V4 X</p>	<div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SUBTOT</td> <td style="width: 50%;">VENDOR</td> </tr> </table> </div>	SUBTOT	VENDOR	<ol style="list-style-type: none"> 1. Press the subtotal key ◊. 2. If you wish to reopen the last receipt printed by one particular sales assistant, press the corresponding memory key (for example V4) and then press X. The receipt will then be reopen in order to delete or add sales.
SUBTOT	VENDOR			

! 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 memorised 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.

Working at "Reopening receipt" set to 9, if you wish to reopen a closed receipt in order to modify it, a menu with two options will appear:

- '1' – Last receipt.
- '2' – Other receipts.

Option "1" permits the last closed receipt to be reopened.

If option "2" is selected, other receipts can be opened and the scales will request the number of the receipt to be reopened.

If the receipt number is in the memory and it is reopen able, a "recover receipt" message will be displayed and the receipt may be modified. Otherwise, the scales will show a "non-valid receipt" message.

2.3.9. Operation in label mode

<p>PRINT</p>	<div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">0.000</td> <td style="width: 50%; text-align: right;">0.00</td> </tr> <tr> <td>0.000</td> <td style="text-align: right;">0.00</td> </tr> <tr> <td>E</td> <td></td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">0.410</td> <td style="width: 50%; text-align: right;">5.00</td> </tr> <tr> <td>0.000</td> <td style="text-align: right;">2.05</td> </tr> <tr> <td>01 - <Article name></td> <td></td> </tr> </table> </div>	0.000	0.00	0.000	0.00	E		0.410	5.00	0.000	2.05	01 - <Article name>		<p>To print one label for each memorisation operation (<i>label mode</i> operation) proceed as follows:</p> <ol style="list-style-type: none"> 1. Press PRINT until the symbol LABEL appears on the display. 2. Effect the desired operation (weight, etc...).
0.000	0.00													
0.000	0.00													
E														
0.410	5.00													
0.000	2.05													
01 - <Article name>														

USER'S MANUAL

The label will be printed when the memory key is pressed corresponding to the sales assistant who has effected the operation.

*

Total	I
TOTA	M I COP 3

F2

0.410	5.00
0.000	2.05
F F	< Article name >

! *only model: S-545 and S-547

- If you wish to make a certain number of COPIES* of the last label issue, press *, then press the sales assistant key where the operation has been saved, enter the number of copies required, and press *.

- If you wish to work in *automatic labelling* mode, check that the corresponding parameter has been set correctly (See sect. 5.1.4.3 *AUTOMATIC WEIGHING*), then select the required article and press F2 until the symbol F appears on the display.

If parameter 343 is set to 1, the memory in which the sales are accumulated will have to be selected. If parameter 343 is set to 2, sales will be automatically accumulated in memory V1.

If there is any variation in the weight after a stable weight has been attained, a label can be printed after a stable weight is attained again, without having to press any article or sales assistant key.

! If you want to have reflected on the label the amount and the total in EUROS see the section 5.1.3.8 Type of receipt and label.

2.3.10. Fix price

This process is used to effect operations with the same article, and to do this the corresponding parameter must be set up correctly (See sect .5.1.2.2 *FIX PRICE*). Proceed as follows:

F2

0.410	0.00
0.000	0.00

F2

0.410	5.00
0.000	2.05
01 - M	

SHIFT 1

0.410	5.00
0.000	2.05
F MILK	

SHIFT 3

0.000	0.00
0.000	0.00

- Place the required article on the platform.
- Select the article to be fixed.
- Press F2 to fix the price, and the symbol F will appear.
- Now weigh the next article. To deactivate the fixed price press F2 until symbol F disappears.

2.3.11. Increase or decrease price

After having entered a price, either defined in PLU, or as an offer price or a direct price, press SHIFT and then 1 to enter the percentage value to increase the price, or press SHIFT and 3 to enter a percentage value to decrease the price. To do this, parameter 5.1.7.6 must be activated (See sect. 5.1.7.6 *INCREASE PRICE*).

If you do not wish to enter any percentage, press C to resume normal weighing mode.

To memorise the operation, effect the same procedure as that without the percentage, i.e., after having entered the percentage, press the memory key of the corresponding sales assistant.

- This procedure is compatible with adding and subtraction of one or more articles to be weighed.
- In-line discount is not compatible (See sect. 5.1.3.6. *IN LINE DISCOUNT*) with this procedure.

Effect the following procedure:

	0.590		7.89
	0.000		4.69
	01 - SERLOIN		
SHIFT 1	0.590	inc	.00
	0.000		4.69
	01 - SERLOIN		
1 0	0.590	inc	.10
	0.000		5.16
	01 - SERLOIN		
V1	0.590		0.00
	0.000		0.00


1. Place the required article on the platform and select the article to be fixed.
2. Press **SHIFT** + **1** to increase the price or **SHIFT** + **3**, to decrease the price of the article.
3. Enter the percentage to be applied, using the number keys.
4. Press the key of the sales assistant who has made the sale.

2.3.12. Net weight operations

It is possible to work with net weight values associated to each PLU, either through the corresponding programmable net weight keys or those obtained through manual net weights. The net weight is shown at the bottom left corner of the display.

The NET WEIGHT ASSOCIATED TO EACH PLU is programmed in the net weight field in the PLU creation or modification section. (See sect. 3.1 *ARTICLES*).


To work with PROGRAMMABLE NET WEIGHTS, place the article to be weighed on the platform, select one of the programmable net weights by pressing **SHIFT** **X** and the key of the desired net weight (**1**, **2**, **3**, **4**, **5**), enter the price and memorise the weight.

 To use the NET WEIGHT KEYS check that they have been correctly programmed. (See sect 11.1.4 *TARES*).

To effect MANUAL NET WEIGHT:

	0.415		0.00
	0.000		0.00
T/FT	0.000		0.00
	0.415		0.00
SHIFT T/FT	0.415		0.00
	0.000		0.00
T/FT	0.415		0.00
	0.000		0.00

1. Place the weight to be fixed as net weight on the platform.
2. Press **T/FT**.
3. If you wish to fix the net weight, press **SHIFT** and then **T/FT**.
4. To cancel the net weight, make sure there is not anything on the platform, press **T/FT**.

 If the fixed net weight mode is being used, when the weight is removed from the platform, a negative net weight value will be shown on the weight display.

2.3.13. Free price and offer price

If you wish to FREE THE PRICE of a product at any time:

0.205	0.00
0.000	0.00

0.205	1.00
0.000	0.21
03 - POTATOES	

1. Check that configuration parameter 323: FREE PRICE has the default value (See *sect. 5.1.2.3 FREE PRICE*) and place the product on the platform.
2. The article should have enabled Modify Price.(See section 3.1.1 point 24. Modify Price) Press the product direct key or enter its code with the number keys.

! To allow releasing the price, the item selected should be the "Modify Price" set to "YES" (see par. 3.1.1, Create / Modify a PLU, point 24 Modify Price).

F3

0.205	0.00
0.000	0.00
POTATOES	

0.205	0.60
0.000	0.12
POTATOES	

! Check that it is in the corresponding department and be careful to enter all the digits in the code: code 212 is not the same as 000212

3. Press **F3**.
4. Enter the new price and proceed with normal operation for the product.

If you wish to sell an item at an OFFER PRICE: According to model.

0.000	0.00
0.000	0.00

0.860	0.60
0.000	0.57
03 - POTATOES	

PRINT

SHIFT

F5

0.430	0.60
0.000	0.26
03 - POTATOES	

PRINT

0.430	0.60
0.000	0.26
F POTATOES	

1. Check that the label format used is set up in section 43 as OFFER AMOUNT or section 30 OFFER PRICE (See *sect . 9.1.1 LABEL FORMATS*). Otherwise this operation cannot be effected in LABEL MODE.
2. Check that the PLU to be used has the offer price recorded. (See *sect. 3.1.1. CREATING / MODIFYING A PLU*).
3. Selling in RECEIPT MODE, press **PRINT** until symbol **E** **disappears** from the display
4. Select the item.
5. Press **SHIFT** and then **F3**: the offer price will appear.
6. Press **PRINT** if you wish to work in label mode.

2.3.14. Return weight

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 (See *sect. 5.1.2.1 RETURN WEIGHT*). Then proceed as follows:

0.435	0.00
0.000	0.00

0.430	1.00
0.000	0.43
01 - MILK	

F1

-	0.435
0.000	0.00
01 - MILK	

V1

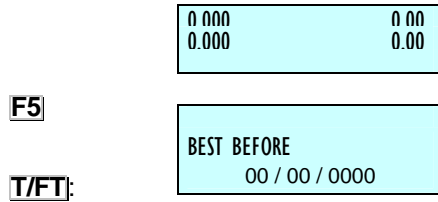
-	0.435
0.000	0.00
01 - MILK	

1. Replace the article on the platform.
2. Select the corresponding PLU.
3. Press **F1**.
4. Press the key of the corresponding sales assistant.

2.3.15. Best Before

If in the expiry configuration there is a value set up that allows the global expiry date, (See Sect. 5.1.7.3. BEST BEFORE) it will be possible to select the global temporary expiration data.

To do this:



F5

T/FT:

1. Make sure that the weighing scale is a MASTER and it is in the working position.

2. Press **F5**.

Program the expiration data. The Format of the expiration data can be changed by pressing **T/FT**:

- a. Absolute date in the format dd/mm/yyyy (day/month/year).
- b. Number of days from the date of printing the label. .+000
- c. 00:00 hora concreta/ time concrete.

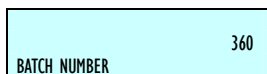
2.3.16. Batch number

In the **Dibal 500 Range** scales it is possible to programme a batch number, which can be alphanumeric with a maximum of ten digits, in which a global reference to labels of articles may be assigned when the scales are in label mode.

To programme the batch number press **SHIFT** **◊**, and enter the batch number. 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.

SHIFT
◊,

***.**
C



To exit the data input dialog box, press ***.** To delete editing press

C

2.3.17. 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:

2.3.17.1. Normal Accumulation Label

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

1. Working in label mode, Press \diamond .
2. Press the key of the sales assistant 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.

\diamond

SUBTOT SALES AS.	
------------------	--

V1

0.000	0.00
0.000	0.00

2.3.17.2. 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 (See sect .5.1.4.1. ONE ARTICLE). To do this:

1. Press \diamond .
2. Press the key of the sales assistant who effected the operations.

2.3.17.3. Totals Levels

The 500 series 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.

To select the totals level, proceed as follows:

1. In label mode, press \diamond ,
2. Press the **1 2 3** keys to select the level accumulated you are looking for (level 1 press **1** level 2 press **2** level 3 press **3**)
3. Finally press the sales assistant's key.

If there is not 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 (even if the article is not changed) level 1 labels will show the expiry date even if "One article" is not set to **1 ART OBL** (See sect. 5.1.4.1. ONE ARTICLE).

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 "One article" has a value of **1 ART OBL**, 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.

\diamond

SUBTOTAL LEVEL I	
------------------	--

1

0.000	0.00
0.000	0.00

V1

2.3.18. Forms of payment

This Function permits sales to be associated with a form of payment so that later they can be listed separately. There are nine forms of payment, four of which are defined:

PLU1	Cash	PLU4	To account	PLU7	Programmable
PLU2	Card or cheque	PLU5	Others	PLU8	Programmable
PLU3	Credit	PLU6	Programmable	PLU9	Programmable

*
PLU1

TOTAL SALES ASSIST.

V1

TOT SALES ASSIST ?	CASH
--------------------	------

The operation is as follows:

1. When the receipt is to be printed, after pressing *****, select the form of payment (PLU1,...,PLU9).
2. Press the key of the corresponding sales assistant.

2.3.19. Account payment form

Programme the parameter customer number in the weighing scale configuration with values 4 to 7 (See sect. 5.1.3.2. CUSTOMER NUMBER)

PLU 4

CUSTOMER	0
----------	---

V1

NEW CUST. OK ?	IIII
-------------------	------

1 1 1 1

NEW CUST. NAME	IIII	<
-------------------	------	---

P E P E

SHIFT 4

CUSTOMER	0
----------	---

1 1 1 1

PEPE AMOUNT	99.99
Amount	Paid

...

]

1. When the receipt is printed, press *****, to enter the form of payment. When the sales assistant number is pressed, if the form of payment is 'ACCOUNT' (**PLU 4**), the customer number will be requested (the 4 digits of the client number can be entered with the number keypad or with a barcode reader. The client number represents the last 4 digits in the barcode, not including the control character). If it already exists, his/her name will be shown, and confirmation will be requested (press *****) and the amount on the receipt will be added to the amount owed by the customer. If the customer number does not exist, the name and amount owed on the receipt will be requested. If the 'ACCOUNT' form of payment is selected, the text 'ACCOUNT PAYMENT' will be added to the receipt to distinguish it from a normal sale.
2. If a customer wishes to pay part or all of the amount owed, press **SHIFT** and **4**, and the customer number will be requested, (if the client does not exist, the scales will beep).

If no amount is entered as payment, a copy of the client's account will be made. If a negative amount is entered, the amount pending will increase. 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, in pesetas and euros or just in the principal currency, depending on the Euro phase, etc.

If you wish to exit without any payment being made, press THE function key **MENU**.

3. A client may leave a certain amount as a deposit, and this is reflected as a pending negative sum. Clients can only be removed by going to the RMS or from the scales if your .balance is zero (0).

USER'S MANUAL

MENU
8 1 16

TOTAL SALES ASSIST.

]

SHIFT 4

◊

◊

MENU

ACCOUNT CUSTOMERS

4. Press **MENU** **8** **1** **16** to enter the Lists menu. Enter number 16, which is the number that corresponds to the credit customers' report. This list shows each customer, name and amount owed.

To ensure that the balance of the cash drawer adds up correctly, in list 20 a new line is added that corresponds to the sum of payments made by customers who pay through their accounts.

5. To delete a customer completely:

1. Press **SHIFT** and **4**.
2. You will be asked for the number of the customer (to be deleted). Press **◊**.
3. You will be asked if you want to "Delete customer". Press **◊**.
4. You will be asked if you are "sure". Press **◊**.
5. Press **MENU** to continue weighing.



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

2.3.20. Two Pay Mode

A new procedure has been created in which one or two forms of payment may be chosen.

At present, if parameter *TWO PAY MODE* is set to 0, this means that only one type of form of payment will be used per receipt, and this form will be selected using the PLU keys (PLU 1 Cash, DPLU 2 Cheque, etc.).

If parameter *TWO PAY MODE* is set to 1, this means that two types of forms of payment may be used per receipt. To do this, after pressing the sales assistant key in the "SALES ASSISTANT TOTAL?" dialog box, the weighing scales will await the selection of the form of payment, which can be entered by selecting the PLU keys (PLU 1 Cash, PLU 2 Cheque, etc.).

In this situation, the following is shown on screen:

- Number of articles sold
- Sales total
- Sales assistant code
- Description of form of payment
- Amount payable through this form of payment.

Cash is the default form of payment and the total amount of the receipt is shown as the amount payable in this form of payment. Therefore, if ***** is pressed in this dialog box, the receipt is printed with this form of payment, and a second form cannot then be entered.

To select a different form of payment or paying in a two pay mode, you should select a form of payment on this screen by using PLU1 to PLU9 keys, as it has been said before. The chosen form of payment will appear on the screen and the numerical keyboard will be operative to introduce the willed quantity with the first form of payment (if you press **C**, the amount will became zero). You can change the form of payment whenever with PLU1 to PLU9 keys.

The choice of the first form of payment and the amount to pay through this form are confirmed by pressing *****, and a second dialog box will appear, showing:

- Number of articles sold
- Sales total
- Sales assistant code
- Description of second form of payment
- Remainder of the total outstanding amount

Here you can select the second form of payment with the PLU keys. In this case the number keys remain inactive. If you press ***** without selecting any form of payment, it is understood that the second form of payment is the default form (effective form).

Press ***** to print the receipt. (If cash is one of the forms of payment and the change option is active, the receipt will not be printed and the scales will wait for the amount tendered by the customer to be entered).

! If change control is activated and cash is one of the forms of payment, the total sum of the receipt will be shown (the sum of the two pay mode) and the amount tendered will be requested. The change due will be shown (amount in cash minus amount tendered).

There are 9 forms of payment available, which are defined:

PLU1	Cash	PLU4	To account	PLU7	Other
PLU2	Card or cheque	PLU5	Other	PLU8	Other
PLU3	Credit	PLU6	Other	PLU9	Other

The operation is as follows:

1. Set the scales to working mode. Effect the sale of an article and memorise with a sales assistant key.
2. Press ***** followed by the sales assistant who has sold the article.
3. If parameter *Two Pay Mode* is activated, the scales will wait for you to enter the desired form of payment by using the department keys.
4. When the form of payment has been entered, then enter the corresponding amount and press *****.
5. The scales show the outstanding balance from the sale. Use the department keys to select the second form of payment.

*** V1**

```

0.275      0.00
0.000      0.00
  DO
    
```

```

  I TOT      2.17
M = I      2.17
CASH
    
```

PLU3

```

  I TOT      2.17
M = I      1.00
CASH
    
```

```

  I TOT      2.17
M = I      1.17
CASH
    
```

```

  I TOT      2.17
M = I      1.17
CREDIT
    
```

Press ***** to print the receipt.

Below is an example of payment through two forms of payment:


- First form of payment, not cash.
- Another, second form of payment, not cash.

USER'S MANUAL

The "VENDOR TOTAL?" dialog box shows the number of articles and the total. Enter the discount (if this option is enabled). Press * and the scales will request the form of payment. Press PLU 2, for example, to select CHEQUE.

Use the number keys to enter the amount the customer wishes to pay by cheque. Press * again. If the amount entered differs from the amount due (i.e. if it is less) a second form of payment will be requested. This should be selected using the PLU keys (e.g. PLU 3 to pay the remainder by CREDIT).

Press * and the receipt will be printed with CHEQUE as the first form of payment and CREDIT as the second form (in this example, even if the change option is enabled, the scales will not request the amount tendered by the customer).

 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.


2.3.21. Selecting 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. (See sect. 5.1.4.3. AUTOMATIC WEIGHING)

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.

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

If the configuration parameter automatic weighing is 'WITHOUT SEL MEMO':



- Working in **label mode**:

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

2.3.22. Next Plu

If you wish to select a PLU stored in the scale it is possible to view the different PLUs on the display.

Once selected a PLU we can see the previous and next PLU: To do this:

1. Select a PLU.
2. To select the next one. Press **SHIFT F2** . When it finished, it starts again.
3. To select the previous one. Press **SHIFT F2** 

SHIFT F2


SHIFT F2


2.3.23. 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, without requiring the intervention of a vendor, the label of the required product is printed.

0.135	0.00
0.000	0.00
03 - POTATOES	

In self-service mode only direct keys are operative and depending on the model, the simple keypad (keys 0...9)

To print a label:

0.410	0.00
0.000	0.00
POTATOES	

1. Put the product on the plate.
2. Press the code for the product key.
3. The scale saves the operation and print the label.

! To access to the programming, press any key for two seconds and in less than one second press another key during two seconds

! All the operations done in the scale will be allocated as sales to the memory 1.

2.3.24. Configure backlighting

The scale's backlighting (display lighting) can be configured. There are three working positions:

- *Off*: backlighting stays off until operations are carried out on the scale.
- *On*: it is always on even though the machine is not being used
- *Time mode*: backlighting switches on when operations are carried out on the scale and switches off when the scale is not being used approximately 30 seconds after.

To set the configuration parameters, take the following steps:

1. Set the scale to working position (POSITION 0)
2. Press **SHIFT** and then **□**.
3. Select working mode with the **C**
4. To store the value, press *****.

SHIFT **□**

0.000	0.00
0.000	0.00

BACKLIGHT	
MODE	TIME

BACKLIGHT	
ON	

0.000	0.00
0.000	0.00

C

2.3.25. Stock Manager

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

When the order is received, the operative must enter the amounts received in the scale, either by keyboard or by weighing them.

As the sales are made, the quantities sold will be discounted. Having an inventory of the stock you have in the shop the whole time. This inventory may be printed or sent to PC.

You can access to this new functionality pressing on the keys **SHIFT** and **F5** (3 seconds). Then locate the article on which we want to vary the stock by its corresponding direct key or by entering its code or via scanner.

In the screen it will appear the code, the description and the current article stock.

STOCK	
MANAGER	

0.000	STOCK
-------	-------

SHIFT **F5**

USER'S MANUAL

```
100.525 STOCK
12- POTATOES
```

```
100.525 STOCK
0.000
[+]12- POTATOES
```

The movements we can have are the following ones

- [+]** **Add the stock:** The indicated amount is added to the current stock.
- [-]** **Subtract the stock:** The indicated amount is subtracted from the current stock.
- [R]** **Regulate the stock:** The current stock is replaced by the indicated amount..

**Only models with scanner option.*

Pressing any of these keys you will be able to edit the quantity in order to make the movement:

Next to the articles description it will appear the movement symbol that is taking place:

- [+]** = Add stock
- [-]** = Subtract stock
- [R]** = Regulate

T/FT

It is possible to edit the quantity of the weight articles placing the product on the plate and pressing the key **T/FT**.

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

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

```
100.525 STOCK
UPDATE?
<*> YES <C> NO
```

Once entered the wanted quantity, you must press the key ***** and it appears a screen asking for the 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

To exit from this operation and return to the normal weighing screen, press the key **MENU** and confirm *****.

MENU

```
EXIT STOCK
MANAGER ?
<*> YES <C> NO
```

[1] ARTICLES

[2] VENDORS

[2 1] CREATION

[2 2] DELETION

[2 3] CASH DRAWER

[2 4] ACTIVE VENDOR

[3] CONFIGURATION

[3 1] CONFIGURATION WITH PC

[3 1 1] Day Movement

[3 1 2] End of Day

[3 1 3] Message Label

[3 1 4] PC Receipt Registration

[3 1 5] PC Communication Report

[3 1 6] Stock sending

[3 1 7] Stock movements sending

[3 2] CONF. KEYBOARD

[3 2 1] Weight Refund

[3 2 2] Fix Price

[3 2 3] Free Price

[3 2 4] Direct Price

[3 2 5] Multiplication

[3 2 6] Subtraction

[3 2 7] Addition

[3 2 8] Subtotal

[3 3] CONF. RECEIPT

[3 3 1] Exchange Calculation

[3 3 2] Customer Number

[3 3 3] Receipt Code

[3 3 4] Receipt Tare

[3 3 5] Discount in total

[3 3 6] Discount in line

[3 3 7] VAT in Receipt

[3 3 8] Receipt Conf.

[3 3 9] Deleted Lines

[3 3 10] Rounding Receipt

[3 4] CONF. LABEL

[3 4 1] One article

[3 4 2] Adhesive paper

[3 4 3] Automa. Weighing

[3 4 4] Label per Weight

[3 4 5] Centre texts

[3 4 6] Label Accumulation

[3 4 7] General Text

[3 5] CONF. PRINTING

[3 5 1] Voucher

[3 5 2] Voucher (2)

[3 5 3] Receipt Copy

[3 5 4] Receipt Reopening

[3 5 5] Two Pay. Modes

[3 5 6] Section barcode

[3 6] CONF. EAN

[3 6 1] Bar Code - Receipt

[3 6 2] Bar Code - Label

[3 6 3] Interpr. Line

[3 6 4] EAN 13 Receipt Format

[3 6 5] EAN 13 Receipt

[3 6 6] EAN 13 Label Format

[3 6 7] EAN 13 Label

[3 6 8] EAN 128 Format

[3 6 9] Scanner Sold Sales

[3 6 10] 128 Reading

[3 6 11] Substitution Letters Prepack Reading

[3 6 12] EAN per line format

[3 7] CONF. OTHER

[3 7 1] Units x 1000

[3 7 2] Code Numbers

[3 7 3] Best before

[3 7 4] Advertising

[3 7 5] Draw Control

[3 7 6] Price Increase

[3 7 7] Automatic Mode

[3 7 8] Code Timeout

[3 7 9] Memo amount zero

USER'S MANUAL

[3 7 10] *Memo weight zero*

[3 7 11] *Headers Lin Lists*

[3 6 12] *Scan Load Class*

[3 7 13] *Stock Control*

[3 8] CONF. DISPLAY

[3 8 1] *Display Standby*

[3 8 2] *Logo start up*

[3 8 3] *Change Display*

[3 8 4] *Clock in section logo*

[3 8 5] *Backlight*

[3 8 6] *Advertising Display*

[3 8 7] *Colour display advertising*

[3 8 7 1] *First image*

[3 8 7 2] *Image sequence*

[3 8 7 3] *Time interval*

[3 9] CHECKWEIGHER

[3 9 1] *Checkweigher*

[4] TEXTS

[4 1] FREE TEXTS

[4 2] ADVERTISING

[4 3] SECTIONS

[4 4] PAYMENT MODES

[4 5] TRACEABILITY

[4 5 1] *Products*

[4 5 2] *Table of Texts*

[4 6] SHORT MESSAGES

[4 6 1] *Read messages*

[4 6 2] *Delete messages*

[4 7] RECIPES

[5] COMMUNICATIONS

[5 1] ETHERNET PARAMETERS

[5 1 1] *Scale IP Address*

[5 1 2] *PC IP Address*

[5 1 3] *Equipment Number*

[5 1 4] *TCP Tx Port*

[5 1 5] *TCP Rx Port*

[5 1 6] *MAC Address*

[5 1 7] *Subnet Mask*

[5 1 8] *Gateway IP Address*

[5 2] RS-232 PARAMETERS

[5 2 1] *Baudrate*

[5 2 2] *Device*

[5 2 3] *Monitoring mode*

[5 3] OPERATIONS WITH PC

[5 3 1] *End Day with Deletion*

[5 3 2] *End Day W/O Deletion*

[5 3 3] *Begin of Day Request*

[5 3 4] *Initialization of scale*

[5 3 5] *Backup*

[5 4] INTERCONEXION

[5 4 1] *Master/Slave Configuration*

[5 4 1 1] *Net Identifier*

[5 4 1 2] *Scale Address*

[5 4 1 3] *UDP Port*

[5 4 1 4] *Slaves IP Address*

[5 4 1 5] *Slaves communicated*

[5 4 2] *Master/Slave Operations*

[5 4 2 1] *Net Autoconfiguration*

[5 4 2 2] *Master/Slave Test*

[5 4 3] *Sending Data*

[5 4 3 1] *Sending All*

[5 4 3 2] *Sending PLU's*

[5 4 3 3] *Sending Traceability*

[5 4 3 4] *Sending Logos*

[5 5] OPERATIONS WITH USB

[5 5 1] *Restore data*

[5 5 2] *Backup data*

[5 5 3] *Backup sales*

[6] FORMATS

[6 1] LABEL

[6 1 1] *Prog Label Format*

[6 1 2] *Copy Label Format*

[6 1 3] *Delete Label Format*

[6 1 4] *Rotate Label Format*

[6 2] RECEIPT

- [6 2 1] Prog Receipt Format
- [6 2 2] Copy Receipt Format
- [6 2 3] Delete Receipt Format

[7] DATA

[7 1] DATA

- [7 1 1] Group number
- [7 1 2] Wholesaler Limit
- [7 1 3] VAT Types
- [7 1 4] Tares
- [7 1 5] Currencies
- [7 1 6] Date and Time
- [7 1 7] Euro Programm.
- [7 1 8] EAN Programm.
 - [7 1 8 X] EANC01... EAN128GLOBAL
- [7 1 9] Loyalty points

[7 2] SELF-SERVICE MODE

- [7 2 1] Conf Self-Service Mode
- [7 2 2] Fix Code

[7 3] PASSWORDS

- [7 3 1] Master Password
- [7 3 2] Prog. Password
- [7 3 3] Vendors Password
- [7 3 4] Comms Password
- [7 3 5] Lists Password

[7 4] PRINTING PARAMETERS

- [7 4 1] Label Parameters
 - [7 4 1 1] Label Way Out
 - [7 4 1 2] Label Contrast
 - [7 4 1 3] Label Format
 - [7 4 1 4] Heading
 - [7 4 1 5] Type of Paper
 - [7 4 1 6] For. total L 1
 - [7 4 1 7] For. total L 2
 - [7 4 1 8] For. total L 3
 - [7 4 1 9] For. EAN Tot L 1
 - [7 4 1 10] For. EAN Tot L 2
 - [7 4 1 11] For. EAN Tot L 3
 - [7 4 1 12] Centre Label
 - [7 4 1 13] Centre Receipt
 - [7 4 1 14] Dist Opto-Thermal Head
 - [7 4 1 15] Backing Paper Rewinder
 - [7 4 1 16] Way out control
- [7 4 2] Receipt Parameters
 - [7 4 2 1] Receipt Contrast
 - [7 4 2 2] Lines End of Receipt
 - [7 4 2 3] Receipt Format
 - [7 4 2 4] Receipt For Label
- [7 4 3] Label opto calibration

[8] REPORTS

[8 1] REPORTS

- [8 1 1] Report of Articles by Code
- [8 1 2] Report of Articles by PLU
- [8 1 3] Report of Articles by Equivalence PLU / CODE
- [8 1 4] Sales per Article by Code
- [8 1 5] Sales per Article by PLU
- [8 1 6] Sales by Vendor/Article
- [8 1 7] Big Total Group
- [8 1 8] Sales per Article by Code [Extended]
- [8 1 9] Big Total Group [Extended]
- [8 1 10] V.A.T. Total
- [8 1 11] Sales per Section
- [8 1 12] Hourly Sales Report
- [8 1 13] Last PLU Modified
- [8 1 14] Cash Drawer Report
- [8 1 15] Traceability Report
- [8 1 16] On Credit Customers Report
- [8 1 17] Fiscal Report
- [8 1 18] Stock Report
- [8 1 19] Monthly Sales Report

[8 2] LOGOS

[8 3] FONTS

[9] SALES DELETION

[9 1] Z DELETION

[9 2] LEVELS

USER'S MANUAL

[9 3] PARTIALS

[9 3 1] Articles Deletion

[9 3 2] Formats Deletion

[9 3 3] Traceability Deletion

[9 3 3 1] Complete

[9 3 3 2] Only Products

[9 3 3 3] Active Animal

[9 3 4] Configuration Deletion

[10] MACROS

[10 1] MACRO PROG

[10 2] COPY MACROS

[10 3] DELETE MACROS

[10 4] EDIT MACROS

3. PROGRAMMING

G

DIBAL 500 Range scales offer a menu-based programming system, i.e. there is a hierarchical coded structure of programming menus that provides fast and simple access to the different programmes by using their corresponding codes.

Access to the main programming menu is gained by pressing the key **MENU** for 2 seconds.

After gaining access to the programming mode, the selected option will be shown in black. Change from one option to another by using **F2** to go down the menu and **F1** to go up.

An option can also be selected by entering its code using the number keys.

To exit programming, press **MENU**

OPTION 1:

Example: Select Global Format of Label 5.

Press **MENU**

Press **F2** until menu Data is selected

Press *

The Data submenu appears.

Press **F2** until see on the screen the Print Parameters

Press *

The Print Parameters submenu appears.

The Label Parameters option is already selected.

Press *

The Label Parameters submenu appears.

Press **F2** until Label Format is selected.

Press *

Enter **5** to select format 5.

Press **MENU** until the programming menu is exited.

PROG	1
ARTICLES	1 - 9

PROG	1
ARTICLES	1 - 9

MENU

PROG	7
7 - 9	
DATA	

F2

*

PROG	74
DATA	4 - 4
PRINT PARAM	

F2

*

PROG	741
PARAM IMP	1 - 2
PARAM LBL	

*

PROG	7413
PARAM ET	3 - 14
FORMAT LBL	

F2

*

PROG	7413
FORMAT LBL	5

5

MENU

USER'S MANUAL

MENU

7 4 1 3

5

MENU

PROG	1
ARTICLES	1 - 9

PROG	7.4.1.3
FORMAT LBL	5

OPTION 2:

Press **MENU**

Press **7 4 1 3**

Enter the value of the parameter, in this case **5**.

Press **MENU** to exit the Programming menu.

The menus structure is the following:

ARTICLES

Articles programming

SALES ASSISTANTS (VENDORS)

Registration, removal and details of sales assistants

CONFIGURATION

Programming of PC Configuration, keyboard, label, receipt, printing and EAN.

TEXTS

Programming of heading lines, publicity, sections, payment modes and traceability.

COMUNICACIONES

Programming of communications parameters and operations with PC.

FORMATS

Receipt and label formats programming.

DATA

Programming of data, self-service mode, passwords and printing parameters.

REPORTS

Printing of reports.

DELETIONS

Deletion of data.

3.1. ARTICLES [1]

3.1.1. Creating/modifying a PLU

In this section articles are programmed on the scales. The 500 model scales. The models Star, S-540, S-545 and S-547 allow to program 10000 articles (PLU).

The following keys are used to create or modify a PLU:

X	Proceed to edit the NEXT article field.
↑	Proceed to edit the PREVIOUS article field.
C	Delete character that has been edited.
SHIFT	Switch between CAPITALS and SMALL LETTERS or pressing some seconds the letter.
+, -	Go (Go back) to next (previous) PLU.
T/FT	Enter a blank space.
◇	Delete article/copy article.
PRINT	Print a list of PLU data.
*	Save data entered.

Table 3-1

MENU

```

PROG          |
ARTICLES     | 1 - 9
    
```

1

```

C 000001
    
```

X

```

C 000001     |
PLU          |
    
```

X

```

C 000001     |
PRICE        | 0.00
    
```

X

```

C 000001     |
NAME POS - 1 | M
    
```

X

```

C 000001     |
NAM2 POS - 1 | M
    
```

X

1. Check that the scales are the MASTER. To programme, press **MENU** during 2 seconds. Type 1 to enter article programming. First, the display will show a C in order to enter the article code.

2. Enter the PLU **code** to be created or modified using the number keys (max. 6 digits) or press the corresponding **direct key**.

Press **X** to assign a *direct key* associated to a PLU.

3. Type the corresponding number for the **direct key (PLU)** to be assigned to the article.

In order to not assign a direct key to the article, it is sufficient leaving in blank the corresponding field. When doing any operation with the article, you must enter a 6 ciphers code.

Press **X** to proceed to enter the price per kg.

4. Enter the **price per kg**.

If the value of currency units / kg is entered as 0, then the article in question will have a free price, i.e. the price can be entered when an operation is effected.

Press **X** to proceed with programming the name.

5. Enter the article **name** (max. 20 characters).

Press **X** to proceed to enter a second name line name 3 (NAME2).

Press **X** to programme the type of article.

USER'S MANUAL

6. Proceed to programme the **type** of article. Articles may be of the following types: price/Kg. (WEIGHT), unit price (UNIT), fixed weight (FIXED W.) o.

Use **C** to select type of article desired:

C

```
C 000001
TYPE
MILK
```

- **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 TARE field, multiplied by the price. The article will not be weighed, but the weight and price will both be printed.
- **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.
- A **FIXED WEIGHT PLU (FROZEN)** appears on the display as a WEIGHT-type PLU, but the difference is that instead of the tare appearing in the bottom left-hand corner of the display, the text PF appears, indicating that the weight is fixed, and therefore the weight placed on the platform is not taken into consideration.

Press **X** to proceed with defining the section parameter.

X

7. Enter the **section code** to which the article belongs (from 0-99) with the number keys.

```
C 000001
SECTION      I
MILK
```

X

Press **X** to proceed to define the label format of the article.

```
C 000001
LBL FORM    0
MILK
```

8. Enter the **label format** that is to be 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; See APPENDIX: PROGRAMMED LABEL FORMATS, to select on of these formats. All these formats will be given in the current EURO phase.
- From **21** to **60***: user-definable formats.

*According to model.

- Model: : S-545 and S547 → Maximum 60

! The printing parameter GLOBAL LABEL FORMAT must be set to 0 in order to programme the above (See sect. 11.4. PRINTING PARAMETERS).

X

Press **X** to proceed to define the barcode format.

X

C 000001
FOR EAN 13
MILK 1

9. Assign the **barcode format** (from 1 to 10) that is to appear on the article label and/or receipt.

All 10 barcode types can be defined by the user in sect..11.1.8.1. *CONF. EANC01...EANC10.*

Press **X** to proceed to define the *VAT rate* associated to the PLU.

10. Enter one of the 6 **VAT rates** of application:

0: 0% (no VAT).

1 to 5: These values can be defined according to sect. *VAT PROGRAMMING*. By default these VAT rates are 0% (factory-set values). VAT rate 1 is assigned to direct price articles.

Press **X** to proceed to define the article profitability code.

X

C 000001
VAT TYPE
MILK 3

11. Enter the associated **Smiley code (profitability)** for the article. The code may be a number from 0 to 9 and it will be shown on the sales assistant's display every time the article is called up.

X

C 000001
COD SMILEY
MILK 0

Press **X** to proceed to define the *price per weight fraction or number of units* associated to the PLU.

12. **Offer (Price-Weight or Free Amount)**

Use **C** to select one of the following options:

[0] – NO

[1] – Price per weight fraction or unit

[2] – Free amount

C

C 000001
OFFER
PRICE-WEIGHT

If Price per weight fraction or unit is selected.

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

X

When **X** is pressed, the price is requested along with the weight above which this offer is applied. The other fractions are configured in the same way.

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.

Example:

A storeowner would like to reward the loyalty shown by some customers who purchase large quantities of potatoes. To do this, he makes the following offers:

	Price		Weight
Price 1	1,00 Euro/ kg.	Weight 1	5,000 kg.
Price 2	0,50 Euro/ kg.	Weight 2	10,000 kg.

Table 3-2

Therefore, if a customer purchases 5 kg or less of potatoes, he/she will not benefit from any price offer. If the purchase is over 5 kg but under 10 kg, the customer will obtain a price offer of 0.50 Euro/kg.

USER'S MANUAL

X

If you select Free Quantity, it will program the quantity from which you offer another amount free of charge, press X to programme the value of the free amount. There are three areas.

Example:

A store owner makes the following offers:

	Free quantity		Weight
Gift 1	1,000 kg.	Weight 1	2,000 kg.
Gift 2	2,000 kg.	Weight 2	3,000 kg.

Table 3-3

If a customer purchases 2 kg of tomatoes, the store will reward him/her by giving 1 further kg free of charge. If the purchase weight is over 3 kg, the customer will be given a further 2 kg as a gift.

Press X to save and proceed to define the offer price associated to the PLU.

X

13 Offer Price. This is the price designated for any offers or promotions on this item. Access to this operation is gained from normal operation mode by pressing SHIFT and F5 after having selected the PLU. According to model.

SHIFT

```
C 000001
COST P      0,00
MILK
```

F5

Press X to proceed to define the cost price associated to the PLU or * to save the item.

X

*

Example:

```
Offer:
This week: box of king prawns for just
6 euros!!!
```

! Do not confuse the OFFER PRICE of items on offer, with OFFERS on prices depending on the weight or number of products purchased.

14. Cost price. This field is used in the lists of profit margins for the product. In this section, the purchase price of the product is entered.

X

*

```
C 000001
SELL BY DATE
00/00/0000
```

Press X to proceed to define the *expiry date* associated to the PLU or * to save the data.

T/FT

15. Sell-by date. Access to this parameter is only enabled if the SELL-BY DATE parameter that can be programmed from the scales *test mode* is set to YES.

T/FT

```
C 000001
SELL BY DATE
+000
```

```
C 000001
SELL BY DATE
00:00
```

The expiry date can be entered in one of the following ways:

1. Absolute date in the format ddmmaa (day, month, year).
2. Number of days after the date the label is issued.
3. Number of hours after the label is issued.

Press T/FT to select the value.

T/FT

Press X to proceed to define the *extra date* associated to the PLU.

X

T/FT

C 000001
EXTRA DATE
00/00/00

X

T/FT

C 000001
TARE 0,000
MILK

X

C

F5 10 *

F5

C 000001
TEXTS YES
MILK

F5

F5 9 *

X

C 000001
GT POS

X

C 000001
EAN 13

X

C 000001
CLASS
MILK

16. Enter an extra date (best before date, etc...). If you wish to enter an expiry time, press **T/FT** and enter it directly.

Press **X** to proceed to define the PLU *tare*.

17. Tare. In this field the tare associated to the product is defined. There are two ways of entering this value:

1. Using the number keys.
2. By placing the weight to be tared on the platform and pressing **T/FT**.

Press **X** to proceed to define the *text lines* for the PLU.

18. Text lines. There are a total of 10 text lines with a maximum of 24 characters per line available for each article.

If the article is to be supplied with text lines, press **C** until Yes can be selected.

To add a new line in a text, press **F5 10 ***. It is possible to add more than one in the same text.

Next, press **F5** to carry on editing.

Press **F5 9 *** at the first character so as not to centre the text lines at printing. The symbol is ✖ (see the scale).

Next, press **F5** to carry on editing.

To print the lines consecutively on the label, press **F5 9 *** at any position (except the first one).

Next, press **F5** to carry on editing.

To change lines press **X**.

19. General text. Each article may have up to 1024 characters of text. Use **F4** to move 1 character forwards in groups and **F3** to move 1 character backwards. Pressing on **+** during two seconds to go to the last character of the text. Pressing **-** during two seconds to go to the first character of the text..

Press **X** to proceed to define the PLU *EAN*.

20. EAN 13. The EAN code for the article is defined in this field.

Use the number keys to enter the EAN code for the article or use a scanner (see EAN/CODE 128 appendix).

Press **X** to proceed to define the PLU *class*.

21. CLASS:

This is to define whether the article has traceability.

- **CLASS = 0:** No traceability. Press ***** to end PLU programming.
- **CLASS ≠ 0:** Traceability. The class to which the PLU belongs is assigned here. There are 10 different classes.



If the PLU has traceability, see section 6.5. TRACEABILITY.

22. IDN

If a class was assigned to the PLU in the foregoing point, then the Identification Product Number (IDN) to which the PLU belongs must be assigned in this field using the number keys. The number may range from 1 to 99.

The **master** and the **slaves** can read EAN 13 codes.

C 000001
LOGO
MILK

*

23. Logo.

The logo associated with the article is programmed here. The scale has one set of programmed logos.

Press * in order to save

24. Alter price

When this field is programmed to "Yes", it is possible to modify the price of the article by pressing on its direct key.

The procedure is the following:

1. Keep pressed the direct key of the article
2. Enter the new price
3. Press: *

C 000001
ALT PRICE
LECHE YES

*

*

3.1.2. Copy an Article

Effect the following operation:

0 0 0 0 0 1
C 000000

◊ C *

C 000001
P L U
NAME MILK I

1 1 1 1 1 1

*

C 111111
P L U
NAME MILK I

2

*

1. Enter article programming on the scales.
2. Select the article code to be copied.
3. Press ◊ and select the option Copy Article with the key C and confirm with *
4. Select the new article code.
5. Press *
6. Press the new direct key associated to this article.
7. Press *

3.1.3. Delete Article

Effect the following operation:

0 0 0 0 0 1

◊ C

C 000000

*

C 000001
P L U
NAME MILK I

1. Enter article programming on the scales.
2. Select the article code to be deleted.
3. Press ◊ and select the option Delete Article with the key C.
4. Press *

And EAN128 and as long as they LecturaEAN128 parameter is ON.

If it is allowed EAN128 reading on the machine, after a reading of a code EAN128 have to spend 5 seconds to read a EAN13, EAN128 because the segment can be read and interpreted everything between the scanner 5 seconds after reading a EAN128 code like the following parts.

The slave can only read codes EAN13.

4. VENDORS [2]

The maximum number of vendors available on each scale will depend on the model.

- For models: S-540, S-545 and S-547 → Max.: 20 vendors. (V20)

The keys corresponding to the vendors will be labelled with the key V followed by a number which identifies the vendor number (V1, V2, etc...)

The vendors must have previously been registered in the corresponding memory in order for the operations carried out by the same to be stored. If this is not the case it is not possible for the operations to be stored and the associated keys V1, V2,... Vxx are out of order.

! Remember that this type of programming can only be done on a MASTER scale.

4.1. REGISTERING VENDORS [2 1]

To register the memory of a new vendor.

1. Make sure the scale is set up as **master** and access the programming menu **MENU**
2. Type in the access code to programming of vendors **2 1**
3. Press the key you wish to assign to the new vendor, for example **V4**.

The symbol **L** indicates that the selected memory is FREE. If this message does not display, it means that the chosen memory is being used by another sales assistant. See section 4.2 *REMOVING SALES ASSISTANTS* if you wish to free this memory.


4. Enter a five digit code for the new sales assistant (for example **2 7 0 5 4**).
5. Press **X** to confirm and go on to enter the operator's name.
6. Enter the name (maximum 26 characters) of the new sales assistant: the current position of the cursor will display in the bottom left hand corner.
7. Press ***** to confirm: the next sales assistant's screen will show (in this case, that of V5).
8. Go to point 3 if you wish to register a new sales assistant, or press the **MENU** key to quit the programming menu.

MENU	PROG I ARTICLES 1-9
2 1	IN n = I E =
V4	IN n = 4 E = 0
2 7 0 5 4	IN n = 4 L E = 27054
X	IN n = 4 L E = 27054 CARLOS
	IN n = 5 E = 0
*	IN n = I E =
MENU	

4.1.1. Consulting active vendors

Once in the Registering Vendors screen,

1. Press **T/FT**: the keys of the active sales assistants will display in groups of 5 in the first line (for example, sales assistants 1,3 and 4). The code associated with each sales assistant displays in the second line.
2. Press the **X** key to move to the following group of five 5 sales assistants.
3. Use the **+** and **-** or **↑** and **↓** keys to move forward or backward to view the sales assistants.
4. Press **MENU** return to normal working mode.

 In order to change the code or name of a sales assistant, they must first be removed and then registered.

4.1.2. Training model

The **DIBAL 500 Range** scale has a special working mode for training new sales assistants.

In this working position, the transactions carried out are not accumulated in the scale's totals, and the receipts issued include this line of text:

***** Training mode *****

ENTER TRAINING MODE

1. Make sure the scale is set up as MASTER, and enter the Registering Sales Assistants screen
2. Press the key of the sales assistant you wish to be trained (for example **V4**), this sales assistant must already have been registered.
3. Select training mode by pressing the subtotal **◇** and ***** keys: the symbol **E** will display.
4. Press **MENU** to quit.

QUIT TRAINING MODE (NORMAL MODE)

Remove the vendors.

4.2. REMOVING VENDORS [2][2]

In order to remove a vendor, that is, free the memory occupied by the said sales assistant, take the following steps:

MENU


2 2


V4

MENU

OUT	n =	l
E =		0

1. Access vendors programming and select Remove Vendors **MENU** (2 sec) **2 2**.
2. Press the key associated to the sales assistant to be removed, for example **V4**. If you do not register a new sales assistant, this key will remain inactive and operations accumulated cleared to zero.
3. Press ***** to confirm the removal of this sales assistant.
4. Press **MENU** to return to working mode.

 This operation is only possible if the parameter *Remove vendors* is set at *YES (TEST MODE)* and if the memory you wish to delete is not being used at that moment.

 When registering or removing sales assistants, the **+** and **-** keys go forward and backward respectively to the next or previous sales assistant. Likewise **C** deletes the data of the input line, except in training mode which removes the said sales assistant from this operating mode.

4.2.1. Removing all vendors

You can disable all the sales assistant keys at the same time. To do so:

T/FT

1. Press **T/FT** (ALL).
2. Press ***** to confirm the elimination of all the vendors.

4.3. CASH DRAWER OPERATION [2 3]

The **500 Range** weighing scales permit joint operation with a cash drawer. To do this, a connection cable is required, and this operation mode must be activated (See sect .5.1.7.5 *CASH DRAWER CONTROL*). For cash drawer operation:

MENU

2 3

1

1 = DEPOSIT
2 = WITHDRAW

2


DEPOSITING 0.00

WITHDRAWING 200.00

CASH
UPDATED

1. Check that the scales are the MASTER, press **MENU** (2 sec)
Enter the access code to the vendor configuration **2 3**.
2. If you wish to DEPOSIT money in the cash drawer at any time during the day, press **1**.
3. If you wish to WITHDRAW money from the cash drawer at any time during the day, press **2**.
4. Enter the amount of the operation performed (deposit or withdrawal) on the weighing scales using the number keys. In the event of error, use **C** to delete.
5. Press ***** to validate data: the weighing scales will be updated and the cash drawer will open automatically.

In order to control the cash drawer BALANCE, it is possible to issue a corresponding list in which totals are printed according to forms of payment and cash drawer balance.

 It is possible to open the cash drawer in normal operation mode (position 0) in the receipt issue phase, by pressing **+** at any time after having pressed ***** or **0**.

5. CONFIGURATION ON [3]

5.1. MAIN CONFIGURATION

MENU

PROG	1
ARTICLES	1-9

3
*

PROG	3 1
CONFIGURA	1-7
CONF WITH PC	

These parameters allow programming the operative setup of the section where the scale is installed.


The access to the main programming menu is gained by pressing the key **MENU** for 2 seconds.

After gaining access to the programming mode, select the option **3** Section Configuration and press *****.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

An option can also be selected by entering its code using the number keys.

To exit Configuration programming, press **MENU**

 When the lower level of the programming menu is shown, it is possible to print a list of the parameters by pressing the key PRINT.

5.1.1. PC Configuration [3][1]

MENU

PROG	3
ARTICLES	3-9

3 1

PROG	3 1
CONFIGURA	1-7
CONF WITH PC	

This programming allows to define all the parameters related to the communication with PC.

To enter in this menu press **MENU** for 2 seconds and then **3 1**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

The access to the submenus it is possible by pressing the key ***** or by entering directly the code of the each submenu.

To exit Configuration programming, press **MENU**

5.1.1.1. Day Movement [3 1 1]

The value of this parameter indicates if the scale sends data to the computer. This parameter has either of the following values:

- 'NO' – The scale does NOT send data to the computer.
- 'YES' – The scale DOES send data to the computer.
- 'END OF DAY' – The scale send data to the computer when an End of Day is requested

PROG	3 1
Day Movement	
YES	

5.1.1.2. End of Day [3 1 2]

The value of this parameter indicates if the scale does close shop and send data to the computer.

- '0' - Disabled End of Day.
- '1' - Enabled End of Day.

PROG	3 2
End of Day	0

5.1.1.3. Label messages computer [3 1 3]

This parameter is used to differentiate between the messages sent to the PC for the receipt and label.

- '0' – It does not differentiate between the messages on the receipt and label.
- '1' – It differentiates between the messages on the receipt and label.

PROG	3 3
Message Label	0


5.1.1.4. PC Receipt Registration [3 1 4]

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. This provides more complete information.

PROG	3 4
PC Receipt Re	
LA	

 If fiscal mode is on, this parameter can only be set to 1 (LY register).

5.1.1.5. Report on communication with PC [3 1 5]


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.

- '0' – Messages on processes related to PC communication are not printed.
- '1' – Messages on processes related to PC communication are printed.

PROG	3 5
PC Com Report	0

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.

5.1.2. Conf. keyboard [3 2]

MENU
3 2

PROG	3 2
CONFIGURA	2-7
CONF. KEYBOARD	

MENU

This programming allows to define all the parameters related to the keyboard and keys functions

To enter in this menu press **MENU** for 2 seconds and then 3 2.

Press *

The access to the submenus it is possible by pressing the key * or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

5.1.2.1. Weight Refund [3 2 1]

F1

PROG	3 2 1
WEIGHT REFUND	
YES	

Use this parameter to determine if, during normal operation, with the **F1** key weighed articles can be returned.

'YES' – It enables weight return operations.

'NO' – It does not enable weight return operations.

5.1.2.2. Fixing the price [3 2 2]

F2

PROG	3 2 2
FIX PRICE	
YES	

This option allows the **F2** key to be activated or not. This parameter only affects the **F2** key when the scale is at **normal functioning**, and its purpose is to provide the possibility to fix the article or the price:

'YES' – Permits the price to be set. (Default value).

'NO' – Price cannot be set.

5.1.2.3. Free price [3 2 3]

F3

PROG	3 2 3
FREE PRICE	
YES	

In normal working mode the scale is able to free the price of the articles in the memory with the aid of the **F3** key. The possible values for this parameter are:

'YES' – Free price operations are enabled. (The **F3** key is activated)

'NO' – Free price operations are not enabled. (The **F3** key is deactivated.)

Check that the status of Modify Price is activated.

5.1.2.4. Direct price [3 2 4]

F4

PROG	3 2 4
DIRECT PRICE	
ALLOWED	

With the scale in normal working mode, the **F4** key allows you to change between the modes for working with direct price and working with article code.

This option enables the functioning of this key in order to limit the access of the user to articles which are not in the direct keyboard, or to prevent products being sold at direct price.

'ALLOWED' – It enables direct price operations.

'NOT ALLOWED' – It impedes direct price operations.

'MANDATORY' – It makes working with direct price obligatory. (The **F4** key is deactivated.)

'AFTER DP NORMAL' – Return to normal mode after working on direct price.

'AFTER NORMA DP' – Return to direct price mode after working on normal price.

5.1.2.5. Multiplication [3][2][5]

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.

PROG	3 2 5
MULTIPLICATIO	
YES	

5.1.2.6. Subtraction [3][2][6]


Just like the previous parameter but for subtraction operations. (The  key)

'YES' – It enables subtraction. (Default value)

'NO' – It does not enable subtraction.

PROG	3 2 6
SUBTRACTION	
YES	

5.1.2.7. Addition [3][2][7]


Just like the previous parameter but for addition operations. (The  key)





'YES' – It enables addition. (Default value)


'NO' – It does not enable addition.





PROG	3 2 7
ADDITION	
YES	

5.1.2.8. Subtotal [3][2][8]

It allows you to configure the  (*subtotal*) key. You can enter one of the following values:

'0' – The  key is enabled for subtotal operations. On pressing  the subtotal appears on the visual display and, on pressing the  and  keys, you can review the receipt line by line.

'1' – The  key is disabled for any subtotal operation.

'2' – The  key is enabled for both subtotal and provisional subtotal. Whenever an operation is stored, the subtotal is shown for four seconds (**temporary subtotal**). Moreover, on pressing the  and the memory key corresponding to the sales assistant, the subtotal shows up on the visual display, and, on pressing the  and  keys, the receipt can be reviewed line by line.

'3' – Only provisional subtotal operations are carried out.

PROG	3 2 8
SUBTOTAL	0

5.1.3. Receipt configuration [3][3]

MENU

PROG	3 3
CONFIGUR	3-7
CONF. RECEIPT	

3 3

This programming allows to define all the parameters related to the receipt data and printing

To enter in this menu press **MENU** for 2 seconds and then **3 3**.

Press *****

The access to the submenus it is possible by pressing the key ***** or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

5.1.3.1. Calculate Exchange [3][3][1]

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

'NO' – Without calculation of the change. (Default value)

'DELAYED' – With calculation of the change, after a 10-sec. pause.

'YES' – With calculation of the change, wait to press *****.

Enter the required change value with the numeric keypad.

PROG	3 3 1
EXCHANGE CALC	
YES	

If we are in a stage with secondary currency (for example. PTAS) and main currency (for example EURO), we can change either of them by pressing **F2** key.

Example 1:

EURO			PTAS	
TOTAL:	25,69	→ F2	TOTAL:	4.274
TENDERED:	50,00		TENDERED:	8.319
CHANGE:	24,31	← F2	CHANGE:	4.045

If we are in a stage with secondary currency (for example PTAS) and main currency (for example EUROS), the secondary currency is temporarily showed on the display by pressing **F1**.

Example 2:

EURO			PTAS	
TOTAL:	25,69	→ F1	TOTAL:	4.274
TENDERED:	50,00		TENDERED:	8.319
CHANGE:	24,31		CHANGE:	4.045

! To get all these operatives done, "Calculate Exchange" option must be previously activated.

5.1.3.2. Customer number [3][3][2]

It 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' – The sales assistant number is printed in the heading.

'1' – 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' – The next consecutive receipt number is printed in the heading.

PROG	3 3 2
CUSTOMER NUMBER	0

- '3' – 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' – 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:

Pay on account

Client: Client no. and name.

- '5' – It requests customer number before printing the receipt and the sales assistant number is printed on the header. If 'ON ACCOUNT' is selected as form of payment, the scale requests the customer number for payment on account, and will print it on the header.
- '6' – 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' – It requests customer number before printing the receipt and the customer number (or receipt no.) is printed on the header of the receipt. If 'ON ACCOUNT' is selected as

Form of payment, the scale requests the customer number for payment on a count, and prints it in the header.

5.1.3.3. Code on receipt [3 3 3]

This parameter allows you to configure the scale to print the article code on the receipt or not. This parameter can have two values.

PROG	3 3 3
RECEIPT CODE	
YES	

- 'NO' – It does not show the article code on the receipt.
- 'YES' – It shows the article code with a description.

5.1.3.4. Tare on receipt [3 3 4]

This parameter is for setting the printing of the tare. You can enter one of these values:

PROG	3 3 4
RECEIPT TARE	
YES	

- 'NO' – The tare is not printed on the receipt.
- 'YES' – The tare is printed on the receipt.

5.1.3.5. Disc. In Total [3 3 5]

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:

PROG	3 3 5
DISCOUNT IN TOTAL	
YES	

- '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.

5.1.3.6. Disc. In Line [3 3 6]

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

PROG	3 3 6
DISCOUNT IN L	
NO	

- 'NO' – Then it does NOT enable the application of a discount to each product.

'YES' – It allows the application of a discount (with).

5.1.3.7. VAT In Receipt [3 3 7]

This parameter allows you to configure the printing of VAT on the receipt.

PROG	3 3 7
VAT IN RECEIPT	
YES	

'YES' – VAT IS printed in the receipt.

'NO' – VAT is NOT printed in the receipt.

5.1.3.8. Type of receipt/label [3 3 8]

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 receipt and label.

'1' – 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 centred date).

'2' – Normal receipt and normal label with total in secondary currency

'3' – Simplified receipt with total in secondary currency.

'4' – Simplified receipt and label with total and lines in secondary currency.

'5' – Simplified receipt with total and lines in secondary currency.

PROG	3 3 8
RECEIPT CONF	0

5.1.3.9. Deleted lines [3 3 9]

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' – **Cancelled lines:**

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' – **Cancelled lines:**

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' – **Cancelled lines:**

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' – **Cancelled lines:**

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' – **Receipt lines cannot be cancelled**

PROG	3 3 9
DELETED LINES	0

5.1.3.10. Receipt rounding off [3 3 10]

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

PROG	3 3 10
ROUNDING RECE	
YES	

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:

'NO' – Without rounding in the receipt

'YES' – Rounding in the receipt

(To configure the sale of stamps: See sect. 5.3.10. LOYALTY STAMPS)

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

5.1.4. Label configuration [3 4]

This programming allows to define all the parameters related to the label data and printing

To enter in this menu press **MENU** for 2 seconds and then **3 4**.

Press *

The access to the submenus it is possible by pressing the key * or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

MENU
3 4

PROG	3 4
CONFIGURA	4-7
CONF. LABEL	

5.1.4.1. One Article [3 4 1]

It affects the **PRINT** key when the scale is at normal working mode. This option enables you to force the status of the key.

'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.

'1 ART OBL' – 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.

PROG	3 4 1
ONE ARTICLE	
ALLOWED	

5.1.4.2. Adhesive paper [3 4 2]

With this parameter you decide on what kind of paper the receipt and the label are to be printed:

'0' - It prints the cash register chit and label on self-adhesive paper.

'1' - It prints the cash register chit on fanfold paper and the label on self-adhesive paper.

'2' - It prints the cash register chit on self-adhesive paper and the label on fanfold paper.

'3' - It prints the cash register chit and label on fanfold paper.

5.1.4.3. Automatic weighing [3 4 3]

This option allows you to program the scale to work with labels, in such a way that if there is a fixed article (with the **F2** key), 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).

PROG	3 4 3
AUTOMA WEIGHT	
NO	

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 memorise all amounts under sales assistant V3.

5.1.4.4. Label per weighing [3][4][4]

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.

PROG	3 4 4
LABEL PER WEI	
SEL X WEIGHING	

'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.

'SEL X WEIGHING' – Pressing **SHIFT** and **F1** before selecting a PLU, prints a label of the weighing, in addition stores it for its subsequent recording on the receipt.

'YES W/O SCANNER' – Still in receipt mode, a label will be issued for each memorisation 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.

5.1.4.5. Centre texts [3][4][5]

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. The possible values of this parameter are:

PROG	3 4 5
CENTRE TEXTS	
YES	

'YES' – Centre the lines of text.

'NO' – The lines of text are NOT centred.

5.1.4.6. Accumulate labels [3][4][6]

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

PROG	3 4 6
LABEL ACCUMUL	
NO COPY ACC	

'NO COPY ACC' – Normal operation: each label is accumulated in sales totals.

Copies of labels cannot be accumulated in sales totals.

'NO ACC' – 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

'ACC ALL' – Normal operation: each label is accumulated in sales totals.

Copies of labels can be accumulated in sales totals.

5.1.4.7. Print General Text [3][4][7]

DIBAL's 500 Range scale allows the printing on labels of a general text on each article. This text is programmed after the 10 texts for each article. It has 1024 characters but the ingredients cannot be entered by code. Use the **F3** and **F4** keys to move forward and backward 20 by 20 characters. It is programmed at section 124 of label formats and the parameter has the following values:

PROG	3 4 6
GENERAL TEXT	
NO JUSTIFY	

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

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

'NO JUSTIF / SEP WORD' – It does not justify and separates words.

'JUSTIF / SEP WORD' – It justifies and separates words.

5.1.5. Printing configuration [3 5]

This programming allows defining all the parameters related to the printed data (register voucher, copies of ticket, ticket reopening and payment modes).

To enter in this menu press **MENU** for 2 seconds and then **3 5**.

Press *****

The access to the submenus it is possible by pressing the key ***** or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

MENU
3 5

PROG	3 5
CONFIGURA	5-7
CONF. PRINT	

5.1.5.1. Voucher [3 5 1]

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' – Without voucher.

'1' – With voucher and bar code on the receipt (but not in the voucher)

'2' – With voucher and bar code on the voucher and not on the receipt. (Default value)

'3' – With voucher and bar code on the voucher and on the receipt.

PROG	3 5 1
VOUCHER	0

5.1.5.2. Voucher (2) [3 5 2]

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' – 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' – The voucher is printed immediately after the receipt, with a gap in time between both depending on the value programmed.

PROG	3 5 2
VOUCHER [2]	0

5.1.5.3. Receipt Copy [3 5 3]

'YES' -Permits copies of receipts to be made.

'NO' -Copies of receipts can NOT be made.

PROG	3 5 3
RECEIPT COPY	
YES	

5.1.5.4. Receipt Reopening [3][5][4]

PROG	3 5 4
RECEIPT REOPENING	0

The 500 model scale affords the possibility to select the REOPENING of receipt operating mode. (see Section 2.3.8. *Reopen Receipt*)

- '0' – Without reopening
- '1' – Reopening of receipt, normal operation.
- 'X' – 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. 30sec.
8	4 min.
9	Without reopening time limit

Table 5-1

5.1.5.5. Two Pay Mode [3][5][5]

PROG	3 5 5
TWO PAY MODE	
NO	

Dibal's 500 Range scale allows two forms of payment. (see Section.2.3.21 *Two Pay Mode*).

- 'NO' – One form of payment
- 'YES' – Two forms of payment

5.1.5.6. Barcodes per Section in Voucher [3][5][6]

PROG	3 5 6
SECTION BARCODE	3

The Dibal 500 Range scales permits a voucher to obtain specific information of the sales by section.

- '0' – Barcodes per section are not printed.
- '1' – 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' – One receipt and a voucher are printed by section, which prints the barcode associated with the corresponding section.
- '3' – 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 sec 6.3 SECTIONS) being by default if there is not assigned another one 2KKNNNNEEEEE.

5.1.6. Conf. EAN [3 6]

MENU

3 6

PROG	3 6
CONFIGURA	6-7
CONF. EAN	

This programming allows to define all the parameters related to the barcodes programming and printing

To enter in this menu press MENU for 2 seconds and then **3 6**.

Press *****

The access to the submenus it is possible by pressing the key ***** or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

5.1.6.1. Receipt Bar Code [3 6 1]

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.

PROG	3 6 1
BAR CODE - RE	
YES – ABS AMOUNT	

5.1.6.2. Bar code in label [3 6 2]

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

PROG	3 6 2
BAR CODE - LA	
YES WITH AMNT ≥ 0	

Press ***** to go to the next parameter

5.1.6.3. Interpret Line [3 6 3]

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 bar code is not printed on the receipt.

'INTERPRET LIN' – If the amount exceeds the limit (999,99 €), the read-out line is not printed on the receipt, but in the read-out line will be printed.

Press ***** to go to next parameter.

PROG	3 6 3
INTERPRET LINE	
NO CODEBAR	

! When it is working with the default bar code 0 with bar code defined by the user, with just 5 positions to indicate the total amount (Ex. 2AABBBBEEEEEE), 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 2AABBEEEEEE, it can be shown till 9999,99)

5.1.6.4. EAN 13 Receipt Format [3 6 4]

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.

```

PROG          3 6 4
EAN - 13 RECEIPT
F 80
    
```

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 5.2

Press ***** to go to next parameter.

5.1.6.5. EAN 13 Receipt [3 6 5]

Here the overall EAN13 bar code global is defined for the receipt (special bar code).

The numbers are symbolized directly on the bar code, and the meaning of the different letters is shown in Table 5.2.

Press ***** to go to next parameter.

```

PROG          3 6 5
EAN 13 RECEIPT
20BBBBEEEE
    
```

5.1.6.6. EAN 13 Label Format [3 6 6]

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

```

PROG          3 6 6
EAN - 13 LABEL
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 5.2 below. The default bar code for the receipt and label is: '2AABBBEEEE'

Press ***** to go to the next parameter

Code	Representation on the bar code	Code	Representation on the bar code
A	Group number	I	VAT rate
B	Customer number	K	Section
C	Article code	N	Receipt Number
D	Employee code	Q	Control Check
E	Total sum of the receipt	R or T	Weight with 2 decimal
F	Sign of the amount	X	Price (in scanner)
G	Number of articles	Y	Total secondary currency
H	Weight		

Table 5.2

5.1.6.7. EAN 13 Label [3][6][7]

PROG	3 6 7
EAN 13 LABEL	

Here the overall EAN13 bar code global is defined for the label (special bar code).

The numbers are symbolized directly on the bar code, and the meaning of the different letters is shown in Table 5.2.

Press ***** in order to go to the next parameter.

5.1.6.8. EAN 128 Format [3][6][8]

This parameter allows you to control EAN 128 Format:

'0' – General use.

'1' – Section use.

5.1.6.9. Scanner Sales Mode [3][6][9]

This option 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.

'WO 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)

PROG	3 6 9
SCANNER SOLD	
NO	

Press ***** to go to the next parameter.

! 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 not possible selling working in other memory. When the receipt has been taken away, you can save over other memory.

5.1.6.10. EAN 128 Reading [3][6][10]

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.

'NO' – This option does not allow to the scale the reading of EAN 128 via scanner.

'YES' – This option allows to the scale the reading of EAN 128 via scanner.

PROG	3 6 10
128 REDING	
NO	

Press ***** to go to the next parameter.

5.1.6.11. Substitution Letters Prepack Reading [3][6][11]

'NO' – Does not allow the direct reading using the scanner of FIX WEIGHT or FIX AMOUNT.

'YES' – Allows the direct reading using the scanner of FIX WEIGHT or FIX AMOUNT.

PROG	3 6 11
SUSTIT LETTERS	
NO	

Press ***** to go to the next parameter.

5.1.7. Configuration. Others [3 7]

MENU

3 7

PROG	3 7
CONFIGURA	7-7
CONF. OTHER	

This programming allows defining other operative the parameters related to the barcodes programming and printing

To enter in this menu press MENU for 2 seconds and then **3 7**.

Press *****

The access to the submenus it is possible by pressing the key ***** or by entering directly the code of the submenu after pressing **MENU**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up.

To exit Configuration programming, press **MENU**

5.1.7.1. Units x 1000 [3 7 1]

Here you decide whether in accumulative lists, the weight totals are printed in grams or kilograms.

'NO' – It accumulates unit sales in grams. (Default value)

'YES' – It accumulates unit sales in kilograms.

PROG	3 7 1
UNITS X 1000	
NO	

5.1.7.2. Code Numbers [3 7 2]

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.

PROG	3 7 2
CODE NUMBERS	0

5.1.7.3. Best Before [3 7 3]

The printing mode of the sell by date is established by setting the values of this parameter:

'ONLY PLU' – It does not enable an overall sell by date to be printed (F5). The sell by 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.

PROG	3 7 3
BEST BEFORE	
ONLY PLU	

5.1.7.4. Advertising [3 7 4]

Advertising messages can be displayed automatically on the purchaser's display, and, depending on the option chosen, on the sales assistant's display as well, if a certain length of time has passed since the last operation was made with the scale and no weight has been placed on the dish. The value of the parameter to be configured here is:

'0' – It does not show advertising text.

'1' – Advertising on display in 10 seconds.

'2' – Advertising on display in 20 seconds.

'3' – Advertising on display in 30 seconds.

'4' – Advertising on display in 40 seconds.

'5' – Advertising on display in 50 seconds.

PROG	3 7 4
ADVERTISING	0

5.1.7.5. Draw Control [375]

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

PROG	3 7 5
DRAW CONTROL	
CONTROL OFF	

5.1.7.6. Increase/Decrease price [376]

It allows you to enable the operation for increasing or decreasing the price. The possible values are:

'NO' – Disabled increase or decrease in price

'YES' – Enabled increase or decrease in the price

PROG	3 7 6
PRICE INCREAS	
NO	

5.1.7.7. Automatic Mode [377]

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.

PROG	3 7 7
AUTOMATIC MODE	
MANUAL	

! Whatever the working mode, it can be accessed to the product association menu with articles by pressing **SHIFT** **+**, 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 keys **+** **-** look for the next and the previous value of the programmed scale. In addition the alphanumeric keypad can be used to introduce the number of the wish product. To save the association press *****.

When a sale is done, if it is in manual mode and an article with traceability has been selected, pressing assistant's key, it will change to this menu, and when ***** key is pressed to validate the association, the sale will happen.

If any other key is pressed, the sale of the original article will be done, as associated article to that sale. No new association between article and product will be recorded

5.1.7.8. Code timeout [378]

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.

PROG	3 7 8
CODE TIMEOUT	
1.5 SEC	

PROG	3 7 9
MEMO AMNT ZER	
NO	

'1.5 SEC' – 1.5 seconds.

'2 SEC' – 2 seconds.

'2.5 SEC' – 2.5 seconds.

'3 SEC' – 3 seconds.

'AUTO SEARCH' – Constantly active time schedule.

PROG	3 7 10
MEMO WEIGHT 2	
NO	

5.1.7.9. Memo Zero Amount [3 7 9]

'NO' – Does not Allow to memorise with Amount Zero

'YES' – Allows to memorise with Amount Zero

PROG	3 7 11
HEADERS LIN L	
NO	

5.1.7.10. Memo Zero Weight [3 7 10]

'NO' – Does not Allow to memorise with Weight Zero

'YES' – Allows to memorise with Weight Zero

5.1.7.11. Headers Lines in Lists [3 7 11]

'NO' – Prints heading lines in the Lists

'YES' – Does not print the heading lines on the Lists

Lists drawn up through this parameter may or may not print the headings. The header lines printed are numbers 12, 13, 14, 15 from the receipt format in operation, regardless of the programmed status. If these lines are programmed in the DO NOT PRINT mode, they will not appear in the receipt but they will in the lists. They will be printed in the mode, frame and letters that have been programmed.

PROG	3 7 12
SCAN LOAD CLASS	1

5.1.7.12. Scan Load Class [3 7 12]

This parameter is used to set the type to be assigned to a product when it is registered to be read in a barcode. The values can be between 1 and 10 (1 by default).

5.1.7.13. Stock Control [3 7 13]

PROG	3 7 13
STOCK CONTROL	
NO CONTROL	

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

Thus, you have updated the scale database with the real stock in the shop.

It will discount the stock weight sold of the weight articles and the units listed in the stock of the unit-type articles.

Adjusting the settings in the **MENU 3 7 13**. Is possible 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.

5.1.8. Conf. Display [3 8]

See annex for blue graphic display.




5.1.8.1. Display Standby [3 8 1]

5.1.8.2. Logo initialization [3 8 2]

5.1.8.3. Display load [3 8 3]

5.1.8.4. Clock section logo [3 8 4]

The control character codes are as follows:

- 9: Do not centre  → when placed in the first position of the text.
- 9: Link together  → when placed anywhere in the text except for the first position.
- 10: New line  → Anywhere in the text.

6.2. ADVERTISING TEXTS [4][2]


If the number of seconds programmed in configuration parameter Advertising (See the section 5.1.7.4. Advertising) have passed since the scale last operated and if there is no weight on the dish, then the scale will start to display ADVERTISING on both displays.

The scale will continue to emit advertising until a weight is placed on the plate or a key is pressed.

There are four lines of 120 characters each, to enter the text of the advertise you want.

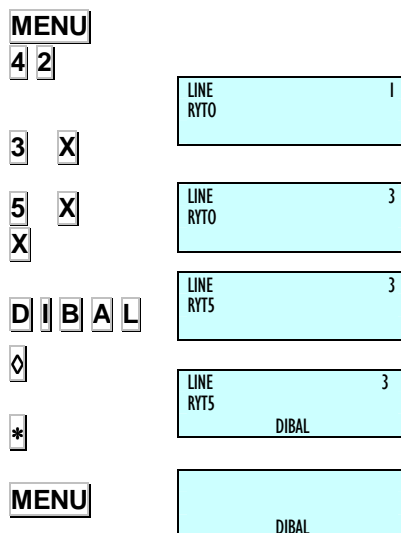
To program the advertisement texts:

1. To enter programming mode, press **MENU** (2 seconds) and then the code **4 2**
2. Enter the line number (1 to 4) and press **X**
3. Enter the speed of change of the message as a value between 1 and 9 (1 =slow, 9= fast). 0 means non showing the line. And press **X**.
4. Enter the text according to the defined line of the previous paragraph.

To make a preview of the line under edition press .

Press ***** to record the line.

Press **MENU** to exit from the programming menu.



6.3. SECTIONS [4][3]

This parameter allows programming the section names and the barcode format for each section.

The names of 100 sections, as well as logo a barcode format **EAN-13 / EAN-128**.

To access to the setting up, press **MENU** (2 seconds) and then code **4 3**

MENU

4 3

```

PROG SECTION
n = 0
    
```

6.3.1. Section names

The section names with a maximum of 20 characters are programmed. The process is as follows.

1. Enter the section number and press *
2. Enter the name of the section, a maximum of 20 characters.
3. Press *
4. Select the section logo. To do this press + to view the logo.
To quit programming press **F4** and return to working mode.
5. Press * to record and pass to next section.

Press **MENU** to exit from the programming menu.

1 *

```

PROG SECTION
n = 1
    
```

*

*

MENU

6.3.2. Ean13 per Section

1. Introduce the **EAN-13 code format** associated to the section as the Table 6.2 shown below

Code	DESCRIPTION	Code	DESCRIPTION
A	Group number	G	Nº of articles
B	Customer number	H	Weight
C	Article code	I	VAT rate
D	Employee code	K	Section
E	Total amount of receipt.	L	Manufacturer's code
F	Sign of amount	Q	Control check

Table 6.2

2. Press * to enter the Ean128 format associated to the section.

MENU

4 3 2

```

PROG EAN 13
n = 0
    
```

6.3.3. EAN128 Per section

1. Editing the EAN128 of the section.
2. See EAN/CODE 128 appendix.

MENU

4 3

```

SECC EAN 128
n = 0 N
    
```

*

6.4. PAYMENT MODE [44]

The 500 Range scales permit the payment mode 6 to 9 to be programmed, and printed on the receipt when the corresponding form of payment is selected.

To programme payment mode:

1. Press **MENU** (2 seconds) and **44**.

2. Select the form of payment to be programmed with the number keys.

3. Introduce a short description and press **X** to edit the form of payment name.

4. Introduce a long description and press **X** to edit the form of payment name.

5. Press ***** to save the name.

MENU

44

6

X

PAYMENT MODE	
--------------	--

PAYMENT MODE	6
SHORT NAME	N
6	

PAYMENT MODE	6
LONG NAME	N
6	

[0] – FIXED → LONG NAME	[5] – FIXED → OTHER
[1] – FIXED → CASH	[6] – SHORT NAME N → _ 6
[2] – FIXED → CHEQUE	[7] – SHORT NAME N → _ 7
[3] – FIXED → CREDIT	[8] – SHORT NAME N → _ 8
[4] – FIXED → ACCOUNT	[9] – SHORT NAME N → _ 9

6.5. TRACEABILITY [4][5]

Articles that are defined with traceability belong to a class or type, such as meat, fish, fruit...

A general text table has to be created for these classes in order to define the text that is common to each class. For example, *slaughtered in.*, *caught in.* *produced in.*...

Every master scales have a table with 200 text lines, which will be referred to as a *text table*, with lines of different lengths up to 32.

The properties or characteristics of the article are then entered, and up to 20 text lines can be added with different characteristics

The process to programme texts and animals with general traceability is as follows:

Press **MENU** (2 seconds).

In programming mode, the selected option is shown in black. Use **F2** and **F1** respectively to go up and down through the menu options.

Select option 4 Texts. Press ***** and in this menu select option 5 Traceability. Press *****

To exit the programming mode press **MENU** (2 seconds)

MENU [1]

F2

C 000002	CLASS	0
----------	-------	---

Program the PLU fields pressing on **MENU** [1] (See 3.1.1 *Creating/ Modifying a PLU*). For example, choose the PLU 2 and press **X** or **F2** until you find the field CLASS.

1. **Class:** We define if the article has or not traceability.

- **Class = 0:** Article without traceability. Press ***** to end PLU programming.
- **Class ≠ 0:** Traceability. The class to which the PLU belongs is assigned here. There are 10 different classes.

Select the class [1]

Press the key **X** or **F2** in order to go on with the programming:

[1]

X

C 000002	IDN	2
NOM	CHORIZO	

2. **IDN:** Introducing in the keypad the Identification Number Product (IDN), as a number with a range from 1 to 99.

Enter the Identification Number Product with the numeric keyboard. For example [2].

[2]

C 000002	ARTIC	RECORDED
----------	-------	----------

3. Press ***** to memorise the article with traceability, which has already programmed.

6.5.1. Definition of PLU Class

6.5.2. Product programming [4][5][1]

The following keys are useful in programming product characteristics:

X	Change field and record
C	Delete the character that is being edited.
+	Move the cursor forwards.
-	Move the cursor backwards.
◇	Delete a previously recorded product. The scales will request confirmation. If you wish to delete it press * , again, and if you do not wish to delete it, press C .
PRINT	Print programmed texts
*	Record product set-up.

MENU
4 5 1

IDN	--
-----	----

2
X

IDN	2
CLASS	--

1
X

IDN	2
CLASS	1

X

X

IDN	2
N. IDENTIFICATION	M
E512345678	

F2

X

IDN	2
SLAUGHTERING HOUSE NUMBER	M
12345678	

PRINT

To define the product characteristics, proceed as follows:

1. From the Traceability programming position, **MENU** (2 seconds) **4 5 1**.
2. Enter the IDN, product, (1-99), defined by the keypad for example **2** and press **X**.
3. Define the class (1-10) to which it belongs and press **X** again.
4. Then program the TEXTS (answers) associated with the Table of Text (questions) from 1 to 20 *. Use the **X** button to change from line of text to next line.
5. Programme the *N. Identification* (Given by default). Press **X** to be changing the next field edited in the section 6.5.3. Table of Text programming.
6. To pass to text of lines press **F2**.
7. Program the field *SLAUGHTERING HOUSE NUMBER*. Press **X** to go to the next field.
8. To exit and record press *****
9. Press **PRINT** key to print the introduced text lines.

6.5.3. Table of texts Programming [4 5 2]

The following keys are useful in programming the *table of text*:

X	Change field and record
C	Delete the character that is being edited.
+	Move the cursor forwards.
-	Move the cursor backwards.
◇	Delete a previously recorded product. The scales will request confirmation. If you wish to delete it press * , again, and if you do not wish to delete it, press C .
PRINT	Print programmed texts
*	Record product set-up.

The *text table* is defined below, and it also can be used as a legend to define the article characteristics.

MENU
4 5 2

```
CLASS      --
```

X

```
CLASS      --
Lin Text
```

F2

```
CLASS      --
Lin Text      I M
```

1
X

```
CLASS      --
Lin Text      I M
DATE OF PRODUCTION:
```

X

```
CLASS      --
RECORDED
```

PRINT

1. From the Traceability programming position, **MENU** (2 seconds) 4 5 2
2. Enter the class (1-10), for example, press **1** and press **X**
3. To pass from line of text (questions) press the key **F2**
4. Enter the number of line that we want to define with the keypad. For example, press **1** to define the first line and then press **X**
5. Write the text (*SLAUGHTERING HOUSE NUMBER, COUNTRY OF SLAUGHTER, QUARTERING NUMBER, Country, DATE OF PRODUCTION ...*) Move through the text by pressing **+** and **-**. The press the key **X** to recorded and move to the next text of line.

! Some characters as for example : &, :, ;, ", etc they won't be visualize in display (alphanumeric) although it will be printed.

! **N. Identification:** It is a compulsory field and it is given by default. That is why there is no need to create.

6. To exit and record press *****
7. Press the key **PRINT** in order to print the entered lines of text.

6.5.4. Example

6.5.4.1. . PLU with beef type traceability

Here a PLU with traceability will be defined. In this case the item belongs to the beef-type *class*.

The *class* refers to the fact that the PLU belongs to a certain class such as beef, fish, fruit, etc.

The **500 Range** scales allow 2* different classes, we define the PLU in *class* one.

Initially, when the PLU is being defined, the scales must be informed that the item has traceability (See sect. 3.1.1. *Creating/modifying a PLU*). Since this PLU is a BEEF-type, the IDN refers to an animal with certain characteristics, such as country of origin, age, breed, etc.

Then the text to be used as the legend should be entered, in order to determine the characteristics of the item.

Press **MENU** **4** **5** **2** and the key **1** (class) and to record and pass the next line **X**.

For example, the following fields will be used to define the PLU:

- ◆ Text 1: *Slaughter House Number:*
- ◆ Text 2: *Country of Slaughtering*
- ◆ Text 3: *Quartering Number:*
- ◆ Text 4: *Country of Quartering:*
- ◆ Text 5: *Country of Production:*
- ◆ Text 6: *Production Date:*
- ◆ Text 7: *Country of Birth:*
- ◆ Text 8: *Country of Fattening:*
- ◆ Text 9: *Category:*
- ◆ Text 10: *Breed:*
- ◆ Text 11: *Sex:*
- ◆ Text 12: *Age:*
- ◆ Text 13: *Type of Animal:*
- ◆ Text 14: *Slaughtered in:*

These texts are entered in accordance with par. 6.5.3. *Table of Texts Programming*.

Press **PRINT** to print the receipt to see the texts that have been entered. The above example would be as follows:

The screenshot shows a terminal window with the following content:

```

TABLA DE TEXTOS
-----
30/DIC/02 13:06 GRUPO:50
-----
001- NUMERO MATADERO:
002- PAIS MATADERO:
003- NUMERO DESPIECE:
004- PAIS DESPIECE:
005- PAIS PRODUCCION:
006- FECHA PRODUCCION:
007- PAIS NACIMIENTO:
008- PAIS ENGORDE:
009- CATEGORIA:
010- RAZA:
011- SEXO:
012- EDAD:
013- TIPO ANIMAL:
014- SACRIFICADO EN:
015- ;
    
```

Annotations in the image:

- A box on the left with the text "Indicate the position of the table of text." has an arrow pointing to the title "TABLA DE TEXTOS".
- A box on the right with the text "Text entered by the user." has an arrow pointing to the field "006- FECHA PRODUCCION:".

USER'S MANUAL

Enter the characteristics of the PLU we are programming such as IDN, product, (1-20*), defined by the keypad for example **2** and press **X**. We have continue programming sections in the point 6.5.2 *Products programming, having into account that:*

1. Then program the TEXTS (answers) associated with the Table of Text (questions) from 1 to 20 *. Use the **X** button to change from line of text to next line.

! N. Identification: It is a compulsory field and the first one it appears, before the text of lines.

IDN	2	
N. IDENTIFICATION	M	
ES12345678		

IDN	2	
SLAUGHTERING HOUSE NUMBER.	M	
12345678		

IDN	2	
COUNTRY OF SLAUGHTER	M	
ESPAÑA		

IDN	2	
QUARTERING NUM.	M	
135849		

IDN	2	
COUNTRY OF QUARTERING	M	
ESTONIA		

PRINT

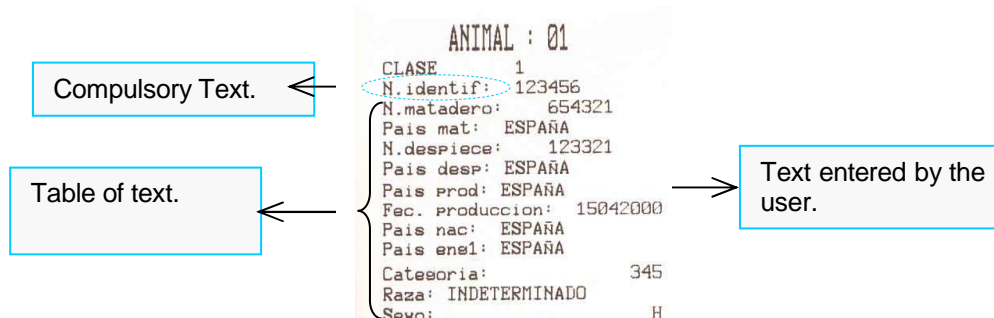
- Programme the *N. Identification* (Given by default). Press **X** to be changing the next field edited in the section 6.5.3. Table of Text programming.
- Program the field *SLAUGHTERING HOUSE NUMBER*. Press **X** to go to the next field.
- Programme the *COUNTRY OF SLAUGHTER*. Press **X** to proceed to the next field.
- Programme the *QUARTERING NUMBER*. Press **X** to proceed to the next field.
- Programme the *COUNTRY OF QUARTERING*. Press **X** to proceed to the next field.
- Do the same with the rest of the parameters.
- To exit and record press ***** to memorised the article with traceability, which has already programmed
- Press **PRINT** to print the product. And **MENU** to exit.

- ◆ **N. Identification*:** ES123456
- ◆ *Country of Fattening1:* Spain
- ◆ *Slaughter House Number:* 654321
- ◆ *Category:* 345
- ◆ *Country of Slaughtering:* Spain
- ◆ *Breed:* Not specified
- ◆ *Quartering Number 1:* 123321
- ◆ *Sex:* Female
- ◆ *Country of Quartering 1:* Spain
- ◆ *Age:* 3 years
- ◆ *Country of Production:* Spain
- ◆ *Type of Animal:* Veal
- ◆ *Production Date:* 15/04/200
- ◆ *Slaughtered in:* Spain
- ◆ *Country of Birth:* Spain

* **N. Identification:** Compulsory parameter, it is note necessary to edit because the scale has it as default.

We can introduce 20 lines of text that is available for each product (See section. 6.5.2. *Products Programming*).

When you press **PRINT** we have:



6.5.4.2. PLU with fish type traceability

Here is an example of how to define a PLU with fish-type traceability, assuming that the beef-type class has already been defined. The PLU to be programmed will therefore be entered in class two*. The IDN refers to the fish to which the PLU belongs, for example IDN = 3, (See sect. 6.5.1 . *Definition of PLU Class*).

* Only certain models.

Since no lines have been deleted, the class 1 will be occupied. We have to define the new lines of text, all except N. Identification that is given by default (See sect. 6.5.3 *Table of Text Programming*) will have to be defined for this PLU:

- Text 1: *Commercial name*
- Text 2: *Origin:*
- Text 3: *Size*
- Text 4: *Category:*
- Text 5: *Form obtained:*
- Text 6: *Form of presentation:*

Press **PRINT** to obtain the following table:

```

TABLA DE TEXTOS
-----
3/ENE/03 10:37 GRUPO:50
-----
001- NOMBRE COMERCIAL:
002- ORIGEN:
003- CALIBRE:
004- CATEGORIA:
005- FORMA OBTENCION:
006- MODO PRESENTACION:
007-
008-
  
```

Indicate the position of the text in the table.

Text entered by the user.

To define the PLU use the lines of text (see section 6.5.2. *Products Programming*):

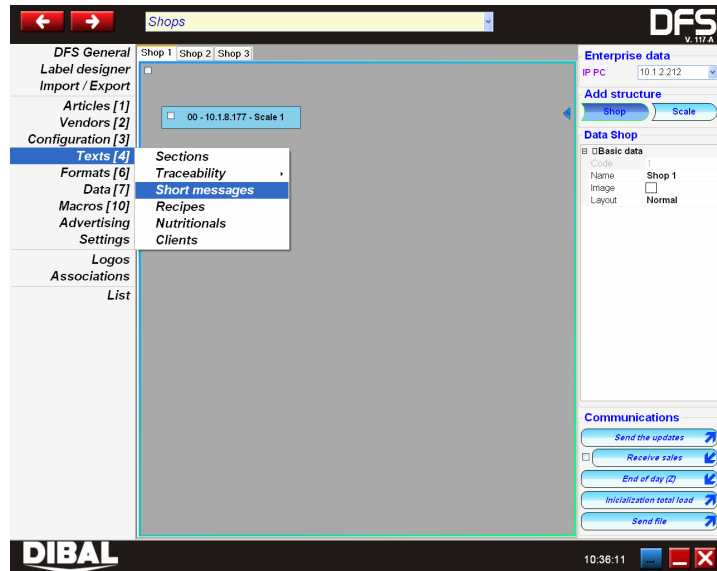
- N. Identification: FAO12345
- TEXT 1: *Hake*
- TEXT 2: *Spain*
- TEXT 3: *1 - 2 KG*
- TEXT 4: *Extra*
- TEXT 5: *Aquaculture*
- TEXT 6: *Fillets*

Press **PRINT**.

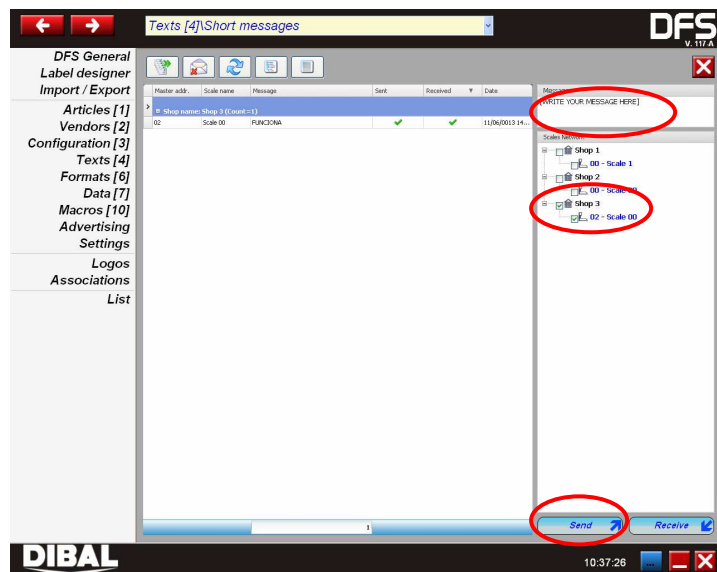
6.6. SHORT MESSAGES [4 6]

6.6.1. Messages to scale

Select texts, short messages in the menu

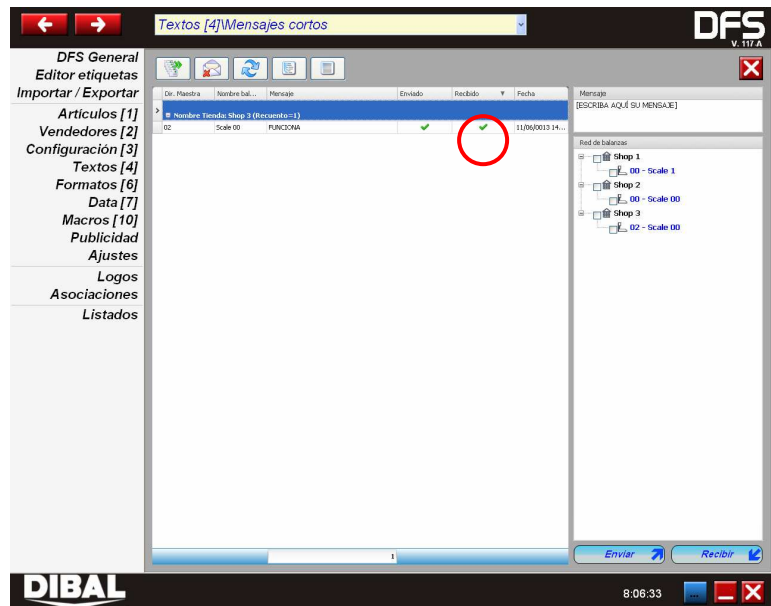


Select the store and the corresponding scale, write your message and click on Send:



6.6.2. Read messages [4 6 1]

Pressing **MENU** 4 6 1 messages appear on the screen.
The following screen will display that the message has been read:



6.6.3. Delete messages [4 6 2]

Pressing **MENU** 4 6 1 messages are deleted.

6.7. RECEIPTS [4][7]

The 500 Range offers the possibility of programming up to 50 receipts for articles.

6.7.1. Receipt title [4][7][1]

Press **MENU** [4][7][1] to access programming of receipt title.

a) *Mode*, the title printing mode can be:

MODE	DESCRIPTION
[0]	Do not print
[1]	Normal
[2]	Inverse
[3]	Heavy shade
[4]	Light shade
[5]	Underlined
[6]	Framed
[7]	Crossed out

b) *Type of font*, Font types can be:

FONT NUMBER	FONT
[0]	12 x 17
[1]	16 x 28
[2]	16 x 32
[3]	9 x 14
[4]	6 x 9

c) *Magnification*

MAGNIFICATION NUMBER	MAGNIFICATION
[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

d) *Text*

The number of characters of the title depends on the type of font and magnification programmed. The maximum size is 50 characters.

6.7.2. Receipt logo [4][7][2]

Press **MENU** [4][7][2] to access programming of receipt logo.

a) Mode:

MODE	DESCRIPTION
[0]	Do not print
[1]	Normal
[2]	Inverse
[3]	Heavy shade
[4]	Light shade

b) Number

You can program a logo number from 1 to 200. These logo numbers correspond to the scale printing logos.

c) Rotation

ROTATION NUMBER	ROTATION
[0]	0°
[1]	90°
[2]	180°
[3]	270°

6.7.3. RECEIPT LINES [4][7][3]

The programmable fields in the receipt line are the same as in the title and will be the same for all the receipt lines.

Each receipt has 39 lines for receipt text.

6.8. NUTRITIONAL FACTORS [4][8]

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.

6.8.1. Nutrition answers

The nutrition answers are based on 14 texts of varying length, so that:

- The first and second text have 30 characters
- The following twelve texts have 15 characters.

The nutritional information is editable in the product data sheet, after the: **Alter price** field.

You can edit the product's nutrition text so that, with the use of the tabulator character, the text will be printed in 2 columns in the nutrition table. To divide the information into these columns, edit the part of the first column, then enter the tabulator character (15), and, lastly, all the information corresponding to the second column.

Enter TEST mode in the configuration menu of the components of the product data sheet (0791) to set display of nutrition text in the product data sheet.

6.8.2. Communications

Use the NP and NR registers to send the texts making up the questions from the PC to the scale as well as the nutritional texts accompanying the article.

NP Register associated with nutritional questions

Field	Bytes
Code	2 (NP)
Group	2
Question Number	3
Length of question	3
Question	100
Free	18

The length is currently set at 40 characters in the device but up a maximum of 100 are allowed.

NR register associated with nutritional questions

Field	Bytes
Code	2 (NR)
Group	2
Item code	6
Question Number	3
Length of question	3
Answer	100
Free	12

The texts currently have variable lengths but the length is incorporated into the message which allows them to be variable in the future.

6.8.3. Printing on label:

There is a series of label fields to enable the printing of nutritional information:

- Separate nutrition fields:

Fields 243 and 244. These must include the number of the text to which they refer in the "text number" register (Width).

As has been pointed out, Field 243 is associated with the Nutrition Question. Use the width field to specify which of the 12 possible questions is mentioned.

Field 244 is associated with the Nutritional information on the product, and, as in the previous field, the width field is used to indicate which of the 12 possible nutrition texts in the product data sheet is to be printed.

- Complete nutrition table:

Field 245 is a table with the nutrition texts.

When this field is programmed, a table with the product's nutritional data will be printed on the label.

The nutrition table will have as many lines as those of the product's nutrition answers. The scale seeks the information on the current product if it has nutrition text. Wherever there is text (blank spaces are considered text), it will print both the global associated question and the answer text in the product data sheet, and the information will be automatically tabulated.

Proteins	54	g
Energy	2565	kcal

The nutrition table is defined with its initial X and Y coordinates, rotation, the letter type in which the data will be printed and the width of the same.

Depending on the width of the table and the letter type used, a maximum number of characters will be printed per line.

If the information of a line is greater than the maximum number of characters, it will not be printed.

If the answer is divided into 2 columns, in the event that all the information does not fit, the question is printed and the second column (the second one not being printed).

6.8.4. Communications Master-Slaves:

Interconnection registers have been implemented so that the nutritional information is available in the Master-Slave network.

7. COMMUNICATIONS [5]

The **DIBAL 500 Range scale** was designed to work alone or as 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 as at a distance from the scale itself by means of a modem), and it may also create a scale network.

A NETWORK of 500 RANGE 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 must be defined. (Parameter 711) A group is a set of master scales. Communication between the computer and the scales takes place by means of groups of scales and master addresses.

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.

7.1. ETHERNET COMMUNICATION PARAMETER

[5 1]

PROG	5.1
COMMUNICATIONS	5-9

If ETHERNET TCP/IP communication is to be used, the next step is programming ETHERNET COMMUNICATION.

MENU
5 1 1

PROG	511
010 001 002 155	
SCALE IP ADDRESS	

*
MENU

7.1.1. Configure the Scale's IP Address [5 1 1]

1. Access to the configuration of scale's IP address by pressing the **MENU** (2 seconds) 5 1 1 keys.
2. Enter the IP address in groups of three characters. Press **X** after the third character. E.g.: 010.**X** 001.**X** 002.**X** 155
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

MENU
5 1 2

PROG	512
010 001 002 154	
PC IP ADDRESS	

*
MENU

7.1.2. Configure the PC's IP Address [5 1 2]

1. Access to the configuration of PC's IP address by pressing the **MENU** (2 seconds) 5 1 2 keys.
2. Enter the IP address of the PC to which the scale is to be connected in groups of three characters. Press **X** after the third character. E.g.: 010.**X** 001.**X** 002.**X** 154
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

MENU
5 1 3

PROG	513
EQUIPMENT NUMBER	0

*
MENU

7.1.3. Equipment Number [5 1 3]

1. Access to the number of equipment by pressing the **MENU** (2 seconds) 5 1 3
2. Program the equipment number, with a number between 00 and 99.
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

MENU
5 1 4

PROG	514
TCP TX PORT	3001

*
MENU

7.1.4. Configure the TCP TX Port [5 1 4]

1. Access to the configuration of the TX port by pressing the **MENU** (2 seconds) 5 1 4
2. Program Tx TCP port=3001 (always)
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

MENU
5 1 5

PROG	515
TCP RX PORT	3000

*
MENU

7.1.5. Configure the TCP RX Port [5 1 5]

1. Access to the configuration of the RX port by pressing the **MENU** (2 seconds) 5 1 5
2. Program Rx TCP port=3000 (always)
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

7.1.6. MAC Address [5 1 6]

MENU
5 1 6

```
PROG          516
01 10 01 00 12 15
MAC ADDRESS
```

*
MENU

Display the scale's MAC address.

- 1 Access to the MAC Configuration by pressing the **MENU** (2 seconds) **5 1 6** keys.
- 2 Enter the password. Consult the Technical Service.
- 3 Enter the MAC address in groups of two characters, pressing **X** alter the second character. E.g.: 01 **X**10**X** 01**X** 00**X** 12**X** 15
- 4 Press ***** to save.
- 5 Press **MENU** (2 seconds) to quit the programming menu.

7.1.7. Subnetwork Mask [5 1 7]

MENU
5 1 7

```
PROG          517
255 255 000 000
SUBNET MASK
```

*
MENU

This sets up the subnetwork mask.

1. Enter master-slave set-up by pressing **MENU** (2 seconds) **5 1 7**.
2. Enter the subnetwork mask progressing through three by three characters, and press **X** after the third character. Eg: 255.**X** 000.**X** 000.**X** 000
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

7.1.8. Gateway Address [5 1 8]

MENU
5 1 8

```
PROG          518
255 255 255 255
GATEWAY IP ADDRESS
```

*
MENU

This sets up the gateway address.

1. Enter master-slave set-up by pressing **MENU** (2 seconds) **5 1 8**.
2. Enter the subnetwork mask progressing through three by three characters, and press **X** after the third character. Eg: 255.**X** 255.**X** 255.**X** 255.
3. Press ***** to save.
4. Press **MENU** (2 seconds) to quit the programming menu.

7.2. RS-232 COMMUNICATION PARAMETER [5 2]

MENU
5 2

1

C

*

MENU

```
PROG          521
BAUDRATE
4800
```

500 Range scales can communicate at 8 bits without parity. You only can program the speed of de communication between scale and scanner. This parameter is measure in (Bd).

1. Make sure the scale is a MASTER.
2. Press the **MENU** (2 seconds) **5 2** keys.
3. Select **1**.Transmission speed.
4. Pressing **C** you can select one of the 7 values available.
5. Press *****

Press **MENU** (2 seconds) to quit the programming menu.

7.3. OPERATIONS WITH PC [5 3]

Using one of the DIBAL scales' communication programs for working under commonly used operating systems (MS-DOS, MS-WINDOWS, UNIX,...), you can use the PC to do all the tasks related to set-up as well as obtain all the data concerning the transactions carried out by the scales for their subsequent computer processing.

You can also make a back-up copy of the scale's data (backup) and load data from the scale (restore) with the aid of the LBS program.

The following are the programs available:

	UTILITY	SCALE TYPE	OPERATING SYSTEM
DIBALCOM	Communications Driver	All	Windows 9X, NT, XP, Me
DIBAL RMS	Scale configuration Store management	All	Windows 9X, NT, XP, Me
DIBAL LBS	Back-up copy Loading data	All	Windows 9X, NT, XP, Me

Table 7-1

When operating, the DIBAL RMS program must always be accompanied by the application DIBALCOM, as the latter provides the computer with the necessary resources to enable the communications port (COM1 or COM2 or COMX) and set up communication with the scale.

7.3.1. Send end of day with totals clearance [5 3 1]

MENU
5 3 1
* * * *
MENU



This operation allows you to forward the data stored in the scale to the computer for their subsequent processing by a suitable program like **DIBAL RMS**.

In addition, the totals accumulated in the different memories throughout the day will be cleared to zero.

1. Press the **MENU** (2 seconds) 5 3 1 keys.
2. To do so, press the * key 4 times.
3. Then, press **MENU** (2 seconds) to quit the programming menu.

7.3.2. Send end of day without totals deletion [5 3 2]

MENU
5 3 2
* * * *
MENU



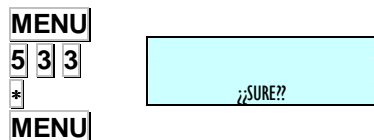
This operation allows you to forward the data stored in the scale to the computer for their subsequent processing by a suitable program like **DIBAL RMS**.

The totals accumulated will NOT be cleared to zero.

1. Enter by pressing **MENU** (2 seconds) 5 3 2.
2. To do so, press the * key 4 times.
3. Then, press **MENU** (2 seconds) to quit the programming menu.

7.3.3. Request start of day [5 3 3]

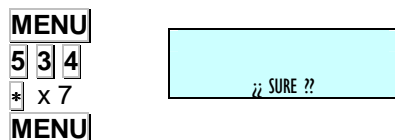
This operation allows you to send the data on receipt text, the registering of sales assistants, section and department names, etc. from the computer to the scale by means of a suitable program like **DIBAL RMS**.




1. Enter by pressing **MENU** (2 seconds) **5 3 3**.
2. Press the ***** key.
3. Then, press **MENU** (2 seconds) to quit the programming menu.

7.3.4. Initialization of scale [5 3 4]

With this operation it is possible to delete all data from the scales except data on logos, fonts, ingredients and all customer information (customer number, pending payments, etc.). The PLUs and sales assistants' memories will be deleted.

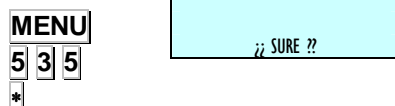


1. Enter by pressing **MENU** (2 seconds) **5 3 4**.
2. Press the ***** key 7 times.
3. Then, press **MENU** (2 seconds) to quit the programming menu.

 If the scales are a MASTER, after start-up 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.

7.3.5. Backup (LBS) [5 3 5]

This operation allows you to forward the data stored in the scale to the computer for a backup or to resend the data from the computer to the scale.



Press **MENU** (2 seconds) **5 3 5**

Press *****.

In the computer select the option **Receive** or **Send**

7.3.5.1. Backup by USB

To do a backup/restore by USB select safety copy in the **5 3 5** menu as is currently done for the LBS.

If connection to a MSD device is detected, then the "USB DETECTED" message displays and confirmation is requested for using this device for loading/downloading. Once confirmed, you are prompted to select the required option (1=Load, 2=Download). If no device is connected, then the LBS operation continues in the usual way, and is carried out from the PC.

The saved file is named:

DIBAL_M-MMM_CCC_VVVV_YMMMDDHHMMSS.BCK

, where M-MMM is the model of the machine (e.g. M-525)

CCC is the country (e.g. SP)

VVVV is the version of the SW in the CPU (e.g. 104E)

YMMMDDHHMMSS is the date and time in the indicated format

BCK is the BCK extension meaning BACKUP

For the opposite process, the loading, the recovered file does not need to have a name with the described format but it must have a BCK extension (it can be chosen using the MAS key from among the different file with BCK extension present in the USB unit).

7.3.5.2. Operations with USB

Menu 5.5 USB operations, has been added and currently has 3 options:

a) Menu 5.5.1 Loading data

it is the same as a LBS Loading operation but in this case it is necessarily from a *.BCK file.

b) Menu 5.5.2 Downloading data

it is equivalent to a LBS downloading operation but in this case it is necessarily to a file.

c) Menu 5.5.3 Downloading sales

The memory of messages pending for sending to the computer (TLOG) is uploaded to a file called SALES_YMMMDDHHMMSS.TXT, where YMMMDDHHMMSS is the date and time of opening of the file in the specified format. The result obtained is the same as the RX.TXT file obtained on connecting Dibalcom to receive the messages in the PC. Sales are marked as "sent to the computer" only if all of the sales are uploaded to the file.

7.4. SCALE NETWORK [5 4]

MENU
5 4

PROG 5.4
COMMUNICA 4 - 4
INTERCONEXION

PROG 5.4.1
INTERCONE 1 - 2
CONFIGURAC M/E

MENU
5 4 1

PROG 5.4.1.1
M E CONFI 1 - 5
NET IDENTIFIER

MENU
5 4 1 1
0
*
MENU

PROG 5.4.1.2
MAESTRA.....0
SCALE ADD

MENU
5 4 1 2
0 0 0 0
*
MENU

PROG 5.4.1.3
UDP PORT 6000

MENU
5 4 1 3
6 0 0 0
*
MENU

SLAVE 01
ADDRESS IP
00000000000

MENU
5 4 1 4
+
MENU

MENU
5 4 1 5
+

MENU

n0 SLAVES
COMMUNICATED
SLAVES COMMUNICATED

To access to this menu press **MENU** (2 secs) 5 4.

7.4.1. Master slave

When a scale is set up as a master the next submenu will appeared.

7.4.1.1. Set up as MASTER-SLAVE [5 4 1]

To access to this menu press **MENU** (2 secs) 5 4 1.

1. Network identification [5 4 1 1]

This parameter is assigned to a 4 digit number to identify the network that will work in.

1. Access pressing **MENU** (2 secs) 5 4 1 1.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.

2. Scale address [5 4 1 2]

This parameter is assigned to the address of the scale. The parameter may be between 00 and the maximum number of slaves that this model can have. If you want to set as Master, introduce 00. If you want to configure as Slave, introduce a value between 01 and the maximum number of slaves depending on the scale model.

1. Access pressing **MENU** (2 secs) 5 4 1 2.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.

3. UDP Port (6000) [5 4 1 3]

This parameter is assigned to the number of port that the master and slave communication is done, being a 4 digit number

1. Access pressing **MENU** (2 secs) 5 4 1 3.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.

4. Ip slaves address [5 4 1 4]

In this parameter you display the IP of the slaves which the master it connected.

1. Access pressing **MENU** (2 secs) 5 4 1 4.
2. Press + to display the next slave connected or - to display the previous one.
3. Press **MENU** in order to exit the configuration menu.

5. Slaves connected [5 4 1 5]

This parameter is assigned to displayed the addresses of the connected slaves scales

1. Access pressing **MENU** (2 secs) 5 4 1 5.
2. Press + or - to display the next or the previous screen, if it is not enough space in the screen to all the slaves scales addresses.
3. Press **MENU** in order to exit the configuration menu.

7.4.1.2. Master-slave operations [5 4 2]



To access to this submenu press **MENU** (2 secs) 5 4 2.

1. Network set up [5 4 2 1]

Autoconfiguring the scale is set as master. The other scales are connected with the same network ID and the UDP port remains as slaves. The parameters of master-slave communication will be set automatically.

1. Access pressing **MENU** (2 secs) 5 4 2 1.
2. Press * during 3 seconds..
3. Press **MENU** in order to exit the configuration menu.



2. Master-slave test [5 4 2 2]

Run a test between the master and slave to check if the communication is correct. This test is only accessible from the slave scales.



7.4.1.3. Sending data to slaves [5 4 3]

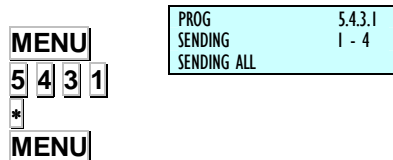
It may be useful to do back up data from a MASTER scale in their slaves, so that you have a security backup of these in each of them.

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 loading a new list with the result of the operation will print.

1. Sending All. [5 4 3 1]

Send all necessary information to the slaves.

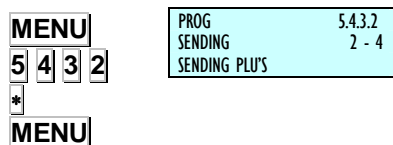
1. Access pressing **MENU** (2 secs) 5 4 3 1.
2. Press *.
3. Press **MENU** in order to exit the configuration menu.



2. Sending PLU's. [5 4 3 2]

Send PLUs to slaves.

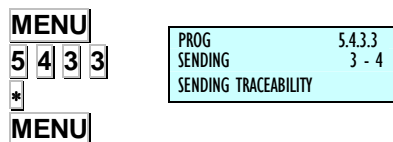
1. Access pressing **MENU** (2 secs) 5 4 3 2.
2. Press *.
3. Press **MENU** in order to exit the configuration menu.



3. Traceability sending [5 4 3 3]

Send the traceability to the slaves.

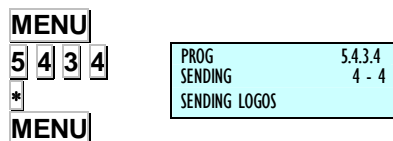
1. Access pressing **MENU** (2 secs) 5 4 3 3.
2. Press *.
3. Press **MENU** in order to exit the configuration menu.



4. Sending logos [5 4 3 4]

Send logos to slaves.

1. Access pressing **MENU** (2 secs) 5 4 3 4.
2. Press *.
3. Press **MENU** in order to exit the configuration menu.



7.4.2. Slave scale

When a scale is set up as a slave the next submenu will appeared.

7.4.2.1. Set up as MASTER-SLAVE [5 4 1]

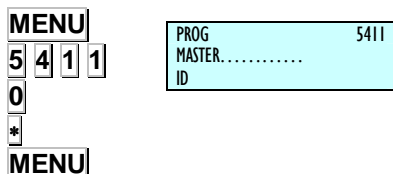
To access to this menu press **MENU** (2 secs) 5 4 1.



1. Network identification [5 4 1 1]

This parameter is assigned to a 4 digit number to identify the network that will work in.

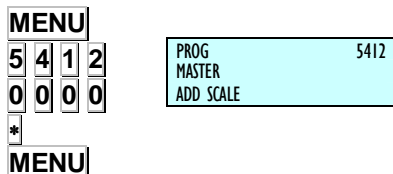
1. Access pressing **MENU** (2 secs) 5 4 1 1.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.



2. Scale address [5 4 1 2]

This parameter is assigned to the address of the scale. The parameter may be between 00 and the maximum number of slaves that this model can have. . If you want to set as Master, introduce 00. If you want to configure as Slave, introduce a value between 01 and the maximum number of slaves depending on the scale model.

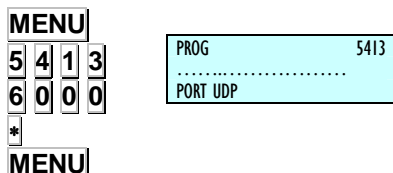
1. Access pressing **MENU** (2 secs) 5 4 1 2.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.



3. UDP Port (6000) [5 4 1 3]

This parameter is assigned to the number of port that the master and slave communication is done, being a 4 digit number

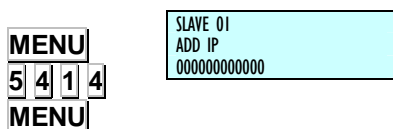
1. Access pressing **MENU** (2 secs) 5 4 1 3.
2. Enter the wanted value and press *.
3. Press **MENU** in order to exit the configuration menu.



4. Ip master address [5 4 1 4]

In this parameter you enter the IP address of the master which the slave it connected.

1. Access pressing **MENU** (2 secs) 5 4 1 4.
2. Press + to display the next slave connected or - to display the previous one.
3. Press **MENU** in order to exit the configuration menu.



5. Slaves connected [5 4 1 5]

This parameter is assigned to displayed the addresses of the connected slaves scales

1. Access pressing **MENU** (2 secs) 5 4 1 5.
2. Press + or - to display the next or the previous screen, if it is not enough space in the screen to all the slaves scales addresses.
3. Press **MENU** in order to exit the configuration menu.

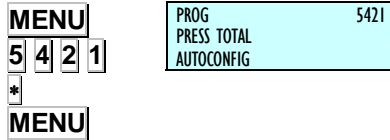


7.4.2.2. Master slave operations

1. Network set up [5 4 2 1]

Autoconfiguring the scale is set as master. The other scales are connected with the same network ID and the UDP port remains as slaves. The parameters of master-slave communication will be set automatically.

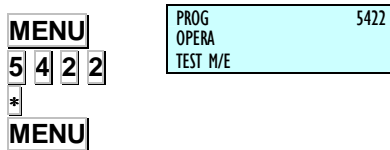
1. Access pressing **MENU** (2 secs) [5 4 2 1].
2. Press ***** during 3 seconds..
3. Press **MENU** in order to exit the configuration menu.



2. Master-slave test [5 4 2 2]

Run a test between the master and slave to check if the communication is correct.

1. Access pressing **MENU** (2 secs) [5 4 2 2].
2. Press ***** to star the test.
3. Press ***** to pause the test.
4. Press **C** to stop the test.
5. Press **MENU** in order to exit the configuration menu.



7.4.2.3. Master data request [5 4 3]

In the case that any error is sent to the slaves or a new slave is connected alter having switching on the master.

1. General request [5 4 3 1]

All the necessary information of the master is requested.

1. Access pressing **MENU** (2 secs) [5 4 3 1].
2. Press *****.
3. Press **MENU** in order to exit the configuration menu.



2. PLUs request [5 4 2 3 2]

The Master's PLUs are requested.

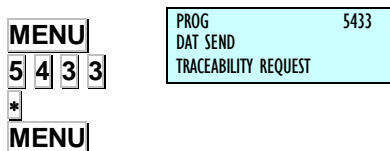
1. Access pressing **MENU** (2 secs) [5 4 3 2].
2. Press *****.
3. Press **MENU** in order to exit the configuration menu.



3. Traceability request [5 4 3 3]

The Master's Traceability is requested.

1. Access pressing **MENU** (2 secs) [5 4 3 3].
2. Press *****.
3. Press **MENU** in order to exit the configuration menu.



4. Logo request [5 4 3 4]

The Master's Logo is requested.

1. Access pressing **MENU** (2 secs) [5 4 3 4].
2. Press *****.
3. Press **MENU** in order to exit the configuration menu.



7.5. OPERATIONS WITH USB[5 5]

USB Operations has been added and currently there are 4 options:

a) Menu 5.5.1 Data load

It is the equivalent of a LBS Load operation but in this case it must necessarily be from a *.BCK file.

b) Menu 5.5.2 Data download

It is the equivalent of a LBS download operation but in this case it must necessarily be to a file.

c) Menu 5.5.3 Sales download

d) Menu 5.5.3 Exporting receipts to USB

The memory of the messages pending dispatch to the computer (TLOG) is uploaded to a file called SALES_YYMMDDHHMMSS.TXT, where YYMMDDHHMMSS is the date and time of opening of the file in the indicated format. The result obtained is the same as the RX.TXT file obtained on connecting Dibalcom in order to receive the messages in the PC. The sales are marked as "sent to the computer" only if all the sales are uploaded to the file.

8. SCANNER CONNECTION

The Software has been developed for **Dibal 500 Range** scales to 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.

8.1. SCANNER INSTALLATION

The scanner is connected taking into account that the output of the scale feeds to 5V.

8.2. SCANNER BAR CODE READING


All 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).

USER'S MANUAL

In normal working position, when a bar code is read by a scanner, a search is made through all those articles whose EAN SCANNER CODE corresponds to that which has been read by the scanner. 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 **F3** key and the letters:

EAN<*****>

Will show up on the display.

Here, you can enter the bar code to make the search. The character "*" will be used as a substitute. To seek an EAN 8 code, the last five characters must be "-" and consequently, it will only seek in articles with an EAN 8 code.

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.

The following are the different cases:

In the case of NON-WEIGHED articles:

- If the price of the article is 0 and the letter 'E' appears on the article's EAN code, the scale will associate the value of the positions of the EAN code where the 'E' are with the value of the price of the article for that sale
- If the price is not 0, it will show the price which the scale has entered.
- If the price is 0, but it does not detect 'E' in the article's EAN code, the article will show up on the screen but in the position for entering the price.

In the case of separate 'E' appearing in the article's EAN code, it will only take into account the last to be found.

In the case of WEIGHED articles:

- If the price of the article is 0 and the letters 'E' or 'X' appear in its EAN code, the scale will associate the value of the positions of the EAN code where the letters are with the value of the price of the article for that sale.
- If the price is not 0, it will show the price which the scale has entered.
- If the price is 0 but it can detect neither 'E' nor 'X' in the article's EAN code, the article will show up on the screen, but in the position for entering the price.
- If the letters "H" appear in the EAN code, the scales will associate the value of the EAN code positions where the letters are, with the weight of the article for this sale.

In the case that appears the articles 'E' 'H' and 'X' separately in the EAN code of the article, only will be considered the last letters found.

Example.

If the EAN code of an article is programmed:

EAN Code < 23 00001 EEEEE 5>

and if the following code is read with the scanner :

23 00001 00456 5

then the following will appear on the display of the scales:

Amount: 456 euros.

In the case of 'E' and 'X' appearing separately within the article's EAN code, it will only take into account the last to be detected.

9. FORMATS [6]

MENU

F2 x 5

*

PROG
FORMATS

This section is for programming the characteristics of the receipt and label.

Access to the main menu is gained by pressing **MENU** 2 seconds.

In the programming menu, the selected option always appears in black.

To move from one option to another use **F2** to go down through the menu and **F1** to go up.

In programming mode, select option 6 Formats, press ***** and then choose one of the 2 options:

Select option 1, Programme Labels and press ***** to programme the label formats.

Select option 2, Programme Receipts and press ***** to programme the receipt formats.

To exit programming press **MENU** 2 seconds.

Examples of receipts and labels:



9.1. LABEL [6] [1]

9.1.1. Program label format [6] [1] [1]

PROG 6.1.1
LABEL 1-3
PROG LABEL FORMAT

DIBAL 500 Range Scales has different label formats that can be programmed by the user. This section explains how to design (the size and fields to print) these special labels. The fields that can be programmed on the label are described in the table below. Depending the model of scale:

Sect.	Description	Sect.	Description	Sect.	Description	Sect.	Description
1	Barcode	28	Vendor Name	55	Euro Exchange Rate	82	Text Line 22: "Cold"
2	Amount	29	Name 3	56	Total secondary currency	83	Text Line 23: "OFFER"
3	Weight	30	Offer Price / Special Price	57	Total for Register Voucher	84	Text Line 24: "SAVE"
4	Hour	31	Saving	58	Complete Date (01 MAY 2000)	85	Text Line 25: "DISCOUNT"
5	Customer	32	Name 2	59	Number of articles on receipt	86	Text Line 26: "£"
6	Price	33	Section	60	Total Receipt	87	Text Line 27: "£/kg"
7	Current Date	34	Batch Number	61	Text Line 1: "WEIGHT"	88	Text Line 28: "£/Unit"
8	Best Before	35	Article Text Line 4	62	Text Line 2: "PRICE"	89	Text Line 29: "BETWEEN 0/5°C"
9	Extra Date	36	Article Text Line 5	63	Text Line 3: "AMOUNT"	90	Text Line 30: " IN A PLACE"
10	---	37	Combined Date 1	64	Text line 4: "kg"	91	Image 1: ----- -(line)
11	Label Counter, lower level, for total labels	38	Combined Date 2	65	Text line 5: "£/kg"	92	It indicates the sum without rounding off in total.
12	Name	39	Total articles and amount on Voucher: "TOTAL (X) amount"	66	Text line 6: "£"	93	It indicates the total rounded off sum
13	Article Text Line 1	40	Rectangle	67	Text Line 7: "UNITS"	94 – 100	---
14	Article Text Line 2	41	% Discount	68	Text Line 8: "GBP/Unit"	101	Heading 9
15	Article Text Line 3	42	Amount after discount	69	Text line 9: "Current Date"	102	Heading 10
16	Article code	43	Amount before offer	70	Text line 10: "Expiry Date"	103	Heading 11
17	Heading 1	44	Logo (for scales with logos)	71	Text Line 11: "BEST BEFORE"	104	Heading 12
18	Heading 2	45	Tare by Percentage Value tare	72	Text Line 12: "CASH REGISTER VOUCHER"	105	Heading 13
19	Heading 3	46	Percentage of the tare	73	Text Line 13: "TOTAL"	106	---
20	Heading 4	47	Logo per PLU's section	74	Text Line 14: "Weight Kg"	107	Heading 14
21	Heading 5	48	Text line: "Packing data"	75	Text Line 15: "Total GBP"	108	Heading 15
22	Heading 6	49	Text line 31 "Packed In"	76	Text Line 16: "Pack Date"	109	Article Text Line 6
23	Heading 7	50	Text line 32 "Use By"	77	Text Line 17: "Best Before"	110	Article Text Line 7
24	Heading 8	51	Text line: "Minced Date"	78	Text Line 18: "TARE"	111	Article Text Line 8
25	Tare	52	Text line: "Reference"	79	Text Line 19: "Batch Number"	112	Article Text Line 9
26	Gross weight	53	Unit price in Euro	80	Text Line 20: "Preserve"	113	Article Text Line 10
27	Vendor Code	54	EAN 128 barcode	81	Text Line 21: "At – 18° C"	114 – 123	Article Text Line from 11 to 20

USER'S MANUAL

Sect.	Description	Sect.	Description	Sect.	Description	Sect.	Description
124	General Text (1024 Text)	144	Piece Portions	201	Product's Answer 2	221	Product's Question 2
125	Recipe Title	145 - 149	---	202	Product's Answer 3	222	Product's Question 3
126	Recipe Text	150	Text Line: "TEMPERATURE IDEAL TO CONSERVATION"	203	Product's Answer 4	223	Product's Question 4
127	Label total Price	151	Made the	204	Product's Answer 5	224	Product's Question 5
128	Text Line 36: "Best Before: "	152	Made by	205	Product's Answer 6	225	Product's Question 6
129	Text Line: "CURRENCY 1"	153	Text Line 40: "Unrounded total: "	206	Product's Answer 7	226	Product's Question 7
130	Text Line: "CURRENCY 2"	154	Text Line 41: "Rounding: "	207	Product's Answer 8	227	Product's Question 8
131	Amount Currency 1	155 - 156	---	208	Product's Answer 9	228	Product's Question 9
132	Amount Currency 2	157	Price x Factor	209	Product's Answer 10	229	Product's Question 10
133	Symbol Currency 1	158	PLU Number	210	Product's Answer 11	230	Product's Question 11
134	Symbol Currency 2	159	Code 25	211	Product's Answer 12	231	Product's Question 12
135	Tare by % Value	160	Text Line A 0: "Reference number:"	212	Product's Answer 13	232	Product's Question 13
136	Value the Percentage of tare	161 - 169	---	213	Product's Answer 14	233	Product's Question 14
137	Text: "% TARE"	170	"Type of Animal"	214	Product's Answer 15	234	Product's Question 15
138	Net Weight Not Drained	171	---	215	Product's Answer 16	235	Product's Question 16
139	Net Price Not Drained	172	Print the Animals Number Identification	216	Product's Answer 17	236	Product's Question 17
140	Net Amount Not Drained	173 - 184	---	217	Product's Answer 18	237	Product's Question 18
141	Packing Time	185	Animal Class	218	Product's Answer 19	238	Product's Question 19
142	Best Before time	186 - 199	---	219	Product's Answer 20	239	Product's Question 20
143	Piece Weight	200	Product's Answer 1	220	Product's Question 1		

MENU

F2 x 5

PROG	6 .1.1
LABEL	1-3
PROG LABEL FORMAT	

***** **1**

FOR - 00

x

FOR - 22

FOR - 22		
X - 0	Y - 0	

FOR - 22		
X - 50	Y - 70	

X - 0	Y - 0
ROT - 0	TL - 0
AP - 001	BAR COD

X - 0	Y - 0
A - 0	L - 0
AP - 040	RECTANGLE

C

X - 0	Y - 0
ROT - 0	TL - 0
AP - 013	TEXT I

Press the **MENU** key 2 seconds.

To move from one option to another use **F2** to go down through the menu and **F1** to go up.

Select option 6 Formats, press ***** and then press option 1, Label.

Select option 1, Programme Labels and press ***** to programme the label formats.

The scales will show each step to go through in the programming of label formats:

1. Enter the programmable format number (21 to 60*)you want to design.

** Only Models S-545 and S547 → Maximum 60*

2. Press **x**.
3. Enter the label dimensions, remembering that 8 print units or dots are 1mm. The maximum value that may be entered in the length of the X-axis is 480. It is advisable to enter a value of approximately 25 dots more than the length of the Y-axis.
4. Press ***** to enter the sections desired.
5. Enter the different sections to be included in the design, following the table above. The maximum of sections will be introduced on machine are 60*.

** Only Models: S-545 and S-547*

When the section has been selected, the following parameters will be programmed:

- Position X.
- Position Y.
- Rotation.
- Letter type, line thickness, barcode size, or logo number, depending on the chosen section.

If the section is a rectangle (section 40) the parameters are:

- Position X.
- Position Y.
- Rectangle width.
- Rectangle length.
- Line thickness.

Depending on the version, if the section is a PLU Text Line (sections 13, 14, 15, 35, 36,109,110,111,112 and 113) the parameters are:

- Position X.
- Position Y.
- Rotation.
- Letter type.
- Column width.

In the case of recipe fields: Title and Text, the field TL (letter type) refers to the recipe number.

To change the parameter, press the **C**.

USER'S MANUAL

The values of positions X and Y may range from 0 to the value of the label size.

The different parameters in the ROTATION field are:

'[0]' – No rotation.

'[1]' – 90° rotation.

'[2]' – 180° rotation.

'[3]' – 270° rotation.

The LETTER TYPE is programmed by entering a value from 0 to 89, where this value indicates the form and type of letter. The base letter types are as follows:

BASE LETTER TYPE	SIZE (Width x Height)
0	12 x 17
20	16 x 28
40	9 x 14
60	16 x 32
80	6 x 9

Table 9-1

If the letter types are to be increased in size either by width, height or both, a number is added according to the following table:

INCREASED NUMBER SIZE	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
[14]	Width x 2, Height x 5
[15]	Width x 1, Height x 1
[16]	Width x 1, Height x 1
[17]	Width x 1, Height x 1
[18]	Width x 1, Height x 1
[19]	Width x 1, Height x 1

Table 9-2

Therefore, if letter type 74 is selected, this means that the base letter type is 60, size 16 x 32 and it is increased by 14, which means that the letter width is multiplied by 2 and the height by 5, and the final letter size will therefore be 32 x 160.

Press **+** or **-** to go up or down, respectively, to the next section.

Press ***** to change parameter and at the last parameter in the section, the next section is accessed.

Therefore, if letter type 74 is selected, this means that the base letter type is 60, size 16 x 32 and it is increased by 14, which means that the letter width is multiplied by 2 and the height by 5, and the final letter size will therefore be 32 x 160.

Press **+** or **-** to go up or down, respectively, to the next section. Press ***** to change parameter and at the last parameter in the section, the next section is accessed.

Press **◇** to delete an undesired section. The scales will request confirmation. Pressing **C**, we select delete (Yes or No) and pressing on ***** accept.

To delete the last sections from a format, select the first to be deleted and then in the section number enter 00.

When all the sections have been programmed, section 00 appears. Press ***** to record data. The scales will confirm that the label format has been recorded.

When a label format is being designed, if you wish to print a sample label, press **T/FT**. To print a list of sections with their parameter values, press **PRINT**.

9.1.2. Copying a label format [6 1 2]

It is possible to copy one label format to another provided that the latter is a programmable type. To do this:

1. Check that the scales are the MASTER.
2. Access programming by pressing **MENU**
3. Enter the label programming code **6 1 2**
4. Enter the original format number using 2 digits (for example **0 2** for format 2)
5. Press *****.
6. Enter the target label format number to be designed (from 21 to 60*). Press ***** as many times as required to save all fields.

** Only Models: S-545 and S-547*

7. Then, press **MENU** 2 seconds to quit the programming menu.

9.1.3. Deleting a label format [6 1 3]

It is possible to delete one of the programmed label format. To do this:

1. Access programming by pressing **MENU**.
2. Enter the label programming code **6 1 3**.
3. Enter the source format number using 2 digits (for example **0 2** for the format 2). Press *****
4. Then, press **MENU** 2 seconds to quit the programming menu.

9.1.4. Rotating a label format [6 1 3]

The scale lets you rotate the full programmable label format (from 21 format).

◇ **Original label:** **ABC**

MENU

6 1 2

0 2 *

MENU

SOURCE DESTINY
COPY LABEL FORM --

SOURCE DESTINY 0 2
COPY FOR LABL 3 1

MENU




6 1 3

0 2 *

MENU

FORMAT --
DELET LABEL FORM

USER'S MANUAL

- ◇ Angle:90°: 
- ◇ Angle:180°: 
- ◇ Angle:270°: 

Important:

It is not possible to rotate those formats bigger than the limits of the label.

9.2. RECEIPT [6 2]

9.2.1. Program Receipt Format [6 2 1]

The 500 Range scales offer the possibility of printing different types of receipts. There are different **fixed receipt formats** and **user programmable receipt formats** depending on the model of scale.

Although formats 0 and 1 are fixed formats the user can programme the associated headings. The headings in format 0 are programmed from any of the fixed formats. There are 15 header lines for each receipt format, with 56 characters each.

Receipts are printed in accordance with the instructions in the corresponding printing parameter "**Global receipt format**". This parameter, which may be set from 0 to 3*, determines the format in which all receipts are printed. This parameter programmes the values:

- 0 – 1 → Receipts are printed with fixed format values.
- 2 – 3 → Receipts are printed with the chosen format, the values of which are programmed by the user.

The total line on the **voucher** on continuous paper is printed the same way as on the receipt, i.e., with the parameter set-up in the receipt format that is enabled at that moment.

Reduced receipts are printed just with the header lines programmed with 0 and 9.

Lists drawn up through parameter headers in lists may or may not print the headings. The header lines printed are numbers 12, 13, 14, 15 from the receipt format in operation, regardless of the programmed status. If these lines are programmed in the DO NOT PRINT mode, they will not appear. They will be printed in the mode, frame and letters that have been programmed.

If the user attempts to programme anything that cannot be programmed, the scales will emit a warning beep. These programming errors can occur if an attempt is made to programme:

- Lines in a fixed format, except in the case of headings.
- Values that are not enabled.

The process to programme a receipt format is as follows:

Press **MENU** 2 seconds.

To move from one option to another use **F2** to go down through the menu and **F1** to go up.

Select option 6 Formats, press ***** and then press option 2, Receipt, Press *****

Select option 1 and press ***** to programme the receipt formats.

First, enter the receipt number that is programmed, and press **X**

MENU

F2 x 5

***** **2** *****

1 *****

X

PROG	6 .2.1
RECEIPT	1-3
PROG RECEIPT FORMAT	

FT0	—
-----	---

USER'S MANUAL

The key functions are as follows:

X	Programme the next section.
C	In general, the field being edited is deleted. In the format number field: If it is a fixed format: this deletes the associated headings If it is a programmable format: this deletes the whole format. In the Mode field, it switches between possible values.
+	Go to the next programming section in the same line.
-	In headings, this is for going to the previous Heading. In text programming it moves the cursor backwards.
◇	Deletes the format.
F1/F2	Goes back to programming the previous section.
PRINT	Prints programmed parameters.
*	Records entered format.

Table 9-3

A programmable receipt is made up of the following different lines:

1. Head line
2. Head line 1
3. Vendor name
4. Title
5. Sale line
6. Total in principal 1 currency (Tot Pri Cur 1)
7. Total in principal 2 currency (Tot Pri Cur 2)
8. Total in principal currency (Tot Pri Cur)
9. Total secondary 1 currency (Tot Sec Cur 1)
10. Total secondary 2 currency (Tot Sec Cur 2)
11. Total secondary currency (Tot Sec Cur)
12. Discount line (Line Disc)
13. VAT
14. Currency
15. Tendered/change 1 (Tend Change 1)
16. Tendered/change 2 (Tend Change 2)
17. Barcode
18. Receipt
19. Loyalty points (Loyalty Pts)
20. You were served by 1 (Served by 1)
21. You were served by 2 (Served by 2)
22. You were served by (Served by)
23. Logos

9.2.1.1. Meaning of Fields

Each receipt line presents certain fields, and in each line the field presents different options. The details of each field are given below.

1. MODE

For printing with “special effects”: NORMAL, UNDERLINE, FRAME, and REVERSE

MODE		<i>Represents the text print mode of the line</i>
NOT PRINT	[0]	In some receipt lines only, the user decides whether or not to print the line.
NORMAL	[1]	Normal text
INVERSE	[2]	Text printed white on black
SHADED	[3]	Text has dark shadow
SOFT SHADED	[4]	Text has soft shadow
UNDERLINED	[5]	Text underlined
FRAMED	[6]	Text is framed
CROSSED OUT	[7]	The text appears crossed

Table 9-3

2. FONT

Type of font to be used. There are nine different fonts, from 0 to 8.

3. MULTIPLICATION

The multiplication or zoom is used to increase the letter size, as follows:

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
[14]	Width x 2, Height x 5

Table 9-4

4. FRAME LINE STATUS

This represents the status of the lines that frame the receipt line. Four types of lines can be defined, with the following values:

POSITION		<i>Represents</i>
'NO'	[0]	No line
'LOWER'	[1]	Lower line
'UPPER'	[2]	Upper line
'LOW-UP'	[3]	Lower and upper line

5. FRAME EFFECT

This represents the effect of the lines that frame the receipt line. Programming values are:

FRAME EFFECT		<i>Represents</i>
'NO EFFECT'	[0]	No effect
'SOLID LINE'	[1]	Continuous line
'BROKEN LINE'	[2]	Discontinuous line
'GREY'	[3]	Grey line
'2 SOLID'	[4]	Double continuous line
'2 BROKEN'	[5]	Double discontinuous line
'2 GREY'	[6]	Double grey line

6. POSITION

This parameter aligns the header line values. Programming values are:

POSITION		<i>Represents</i>
'LEFT'	[0]	Justified text to left
'CENTER'	[1]	Centred text
'RIGHT'	[2]	Justified text to right

7. PLACEMENT / UBICATION

This represents the position of the heading in the receipt. There are 10 possible positions. A value is selected from 0 to 9, corresponding to one of the positions on the receipt diagram (See *RECEIPT DIAGRAM*).

8. ROTATION

This field appears when the "barcode" line is programmed.

ROTATION	<i>Represents</i>
[0]	No rotation
[1]	90° Rotation
[2]	180° Rotation
[3]	270° Rotation

9. TEXT

This is the text in the header line. It has a maximum 56 characters.

10. BARCODE FORMAT NUMBER

This field defines the barcode format, where:

'[0]': EAN - 8 format

'[1]': EAN – 13 format

11. RECIPE MODE

This section depends on the recipe number. It may have the following values:

RECIPE MODE	Represents
[0]	If <i>recipe number</i> section is 1, the recipe for the first item sold with an assigned recipe will be printed.
[1]	The recipe indicated in the <i>recipe number</i> section will be printed.

12. RECIPE NUMBER

This section is for indicating the recipe number to be printed on the receipt.

13. NUMBER

This section refers to the logo number to be printed from 1 to 10, for fixed logos and from 11 to 15 for user-programmable ones.

14. TICKET DIAGRAM

In the next page, is the distribution of the sections of the tickets. In the case of the printing of the traceability of the tickets it is not programmable in printing mode.

USER'S MANUAL



LOGO (0)
UBICATION (0)
LOGO (1)
INITIAL LINES
SALES ASSISTANT NAME
UBICATION (1)
TITLE LINE
UBICATION (2)
Sales lines
DESCRIPTION LINE
UBICATION (3)
TOTAL IN PRINCIPAL CURRENCY
2 fields
TOTAL IN SECONDARY CURRENCY
2 fields
DISCOUNT
VAT
TENDERED/CHANGE
TENDERED/CHANGE SEC CURR
EURO EXCHANGE RATE
CURRENCY
UBICATION (4)
BARCODE
UBICATION (5)
LOGO (2)
UBICATION (6)
LOGO (3)
UBICATION (7)
UBICATION (8)
LOYALTY POINTS
You were attended by
2 Fields
UBICATION (9)
RECIPES (WITH LOGO)

Cabecera 1 - pos. 0

30/ENE/12 14:51 NT:000014
PACO

Cabecera 2 - pos. 1

ART	kg	€/kg	€
Cabecera 3 - pos. 2			
1 Pollo de corral			
	1.680	4.25	7.14
	-10%		-0.71
2 Yoghurt fresa			
+ 4 Un x	0.65		2.60
Cabecera 4 - pos. 3			
TOTAL (2)			9.03
Dto. 5%			0.45
TOTAL (2)			8.58
Total PTA			1502
Dto. 5%			74
Total PTA			1428
I.V.A. 7.00%			0.42
ENTREGADO €			10.00
CAMBIO €			1.42
CAMBIO PTA			236
(1 EURO : 166.386 Pta)			
Cabecera 5 - pos. 4			
			
Cabecera 6 - pos. 5			
Cabecera 7 - pos. 6			
Cabecera 8 - pos. 7			
Cabecera 9 - pos. 8			
PUNTOS FIDELIDAD			3
LES ATENDIO PACO			
Cabecera 10 - pos. 9			
RECETA:			
<u>Pollo asado a la cerveza</u>			
<p>Ingredientes(para 6 personas):1 Pollo cercano a los 2 kilos preparado para asar,hierbas aromaticas al gusto:romero, tomillo, orzaino y perejil,aceite de oliva, 3 dl. de cerveza de la que mas guste (mejor que sea fuerte), sal y pimienta.</p> <p>Preparation: el pollo que ya estara perfectamente para asar se fruta con sal y pimienta por dentro y por fuera, seguidamente se unta con aceite de oliva por dentro y por fuera y se le añaden las hierbas aromaticas.Colocar en una fuente de horno en la que habremos puesto la cerveza y dejar que se ase hasta que este dorado y tierno, a 185ºE hasta que salga un9o transparente.</p> <p>Servir con una ensalada y una Guarnicion de patatas de este modo tenemos una comida completa, sana, economica y facil.</p> <p>... RICO, RICO!!!</p>			

9.2.2. Copying a receipt format [6 2 2]


MENU
6 2 2 .
*
*
MENU

SOURCE	0
DESTINY	0
COPY TCK FORMAT	

ORIGN	1
DESTIN	2
COPY TCK FORMAT	

It is possible to copy one receipt format to another. To do this:

1. Enter receipt programming menu **MENU** 6 2 2.
2. Select source format.
3. Press *.
4. Using the number keys, enter the format number to which the format is to be copied and then press * to save the format. A "Format copied" message will appear on screen.
5. Press **MENU** 2 seconds to quit the programming menu.

 If the copy is made from a fixed format to a programmable format, the whole format will be copied, but if a copy is made from a programmable format to a fixed format, only the heading lines will be copied.

9.2.3. Deleting a receipt format [6 2 3]

MENU
6 2 3
0 2 *
MENU

FORMAT	-
DELETION TCK FOR	

It is possible to delete one of the programmed receipt format. To do this:

1. Access programming by pressing **MENU**.
2. Enter the receipt programming code 6 2 3.
3. Enter the format number using two digits (for example 0 2 for format 2) and press *.
4. Then, press **MENU** 2 seconds to quit the programming menu.

10.LOGOTYPES LOADING

500 series weighing scales are allowed to print the logos in the receipt and the label. The machine will have 100 fixed logos and other 100 logos that the client can charge the RMS program.

In terms of size, the maximum of each of these images will be a maximum of 432 pixels width and 1200 high.

The print speed is 100 mm per second for both receipt and label.

10.1. PRINTING LOGOTYPES

1. Print a LOGO ON A LABEL:

Access field no. 44. In TL field (type of logo) you must choose the number of the logo type you wish to represent (from 1 to 100 for fixed ones, and 101 and 200 for the programmable ones).

If the type of logo is set at 0, none will be printed. (See paragraph 9.1.1 PROGRAMMING LABEL FORMATS).

Any logo can be rotated just as if it were any other normal field.

2. Print LOGOS ON THE RECEIPT:

Four logos can be printed on the programmable receipt formats. See Par 9.2.1 PROGRAMMING RECEIPTS FORMAT.

10.2. PROGRAMMABLE LOGOTYPES

The scale affords the possibility to incorporate 100 logos from an image the user may have or develop. The following are the specifications to be met:

1. The maximum size of these images is 432 x 1200 pixels and black and white. The image may be square or rectangular. It should be noted that the larger is the image the longer will take to print in the receipt and the label.
2. The size in pixels must be, in both width and length, a multiple of 8, and, as a ratio, you are informed that 1 cm is approximately 80x80 pixels. Example: A 1cm² drawing would be defined as 80 x 80 pixels.
3. The format of the image must be of the BMP and monochrome bit map type. For this purpose is recommended to use 'Paint' by Windows 95.

Once you have the image, it is sent through the PC.

These logos may be included in Programmable ticket formats 2 and 3 (see par. 9.2.1 Programming ticket format), in which will necessary to introduce the position mode, number of logo and rotation.

11. DATA [7 7]

MENU

*

PROG	7.1
DATA	1 - 4
DATA	

MENU

Access the main programming menu by pressing key **MENU** 2 seconds.

Once in programming, select option 7 and press * in order to programming this option

In order to return to the working mode press **MENU**

11.1. DATES [7 1]

Here you program a series of data used during normal operation of the scale, such as VAT rates, Pre-programmed Tares, Currencies, Loyalty points, etc.

Access the main programming menu by pressing key **MENU** 2 seconds.

Once in programming, select option 7, Data, and press * to validate.

To move from one option to another, use **F2** to go down the menu and **F1** to go up.

Select option 1, Dates.

An option can also be selected by typing its code directly with the numeric keyboard, after pressing **MENU** 2 seconds. In this case **MENU** (2 seconds) **7 1**

Press **MENU** 2 seconds to quit the programming menu.

MENU

F2 x 6

*

MENU

7 1

11.1.1. Group Number [7 1 1]

A series of master scales belonging to the same section of the shop (for example FRUIT COUNTER) can be assigned to the same **group** so that all the operations to be carried out in a particular section are done so simultaneously.

To assign a group number to a master scale:

1. Press **MENU** (2 seconds) **7 1 1**
2. With the numeric keypad, type a two-digit number between 00 and 99, for example 16.
3. Press **MENU** to quit the programming menu.

MENU

7 1 1

PROG	7.1.1
GROUP NUMBER	16

MENU

11.1.2. Wholesalers Limit [7 1 2]

The wholesalers limit is the quantity of the amount from which a customer is considered a wholesaler.

1. Press **MENU** (2 seconds) and enter the value **7 1 2** using the keypad.
2. Press * to record the modification.
3. Press **MENU** to exit to the main menu

MENU

7 1 2

PROG	7.1.2
WHOLESAL LIMIT	---,---

MENU

11.1.3. Vat Types [7 1 3]

Up to five VAT rates can be programmed as follows:

MENU
7 1 3
*
C

PROG VAT	I
PROG VAT TYPES	0,00

1. Press **MENU** (2 seconds) **7 1 3**
2. Enter the value of VAT rate 1. VAT rate 1 is that assigned to sales of Direct price. Press ***** to program the next VAT values. Press **C** to delete the current value.
3. Once the corresponding values have been assigned, press **MENU** 2 seconds to quit programming.

MENU

11.1.4. Tares [7 1 4]

The values of the 5 pre-programmed tares are programmed as follows:

MENU
7 1 4
T/FT
*
MENU

PROG TARE	I
PROG TARES	0,150

1. Press **MENU** (2 seconds) **7 1 4**
2. Place the reference weight to be tared on the dish and press **T/FT**. You can also enter a tare directly with the numeric keyboard.
3. Press ***** for saving and for programming the next tares.
4. Having programmed the corresponding values, press **MENU** to quit programming.

11.1.5. Currencies [7 1 5]

The 500 Range scales model includes 8 fixed currencies and 2 programmable currencies.

The scale is capable of printing the total of the receipt in the country's main currency and in two foreign currencies, to be chosen by the user in accordance with the following chart:

Code	Currency	Symbol
0	Swedish Crown	SKr
1	Yen	Y
2	Norwegian Crown	Nkr
3	Pound Stirling	L
4	Euro	€
5	US Dollar	\$
6	Swiss Franc	SwF
7	Danish Crown	DKr
8	Programmable	Programmable
9	Programmable	Programmable

Table 11-1

To use each currency, the exchange rate must be programmed, consisting of 6 digits with 3 decimals, related to the currency of the country in which the scales are used.

In addition to the programmable currencies, there is a field of 7 alphanumeric characters for programming the symbol to be applied to the programmable currency.

There may be a maximum of two active currencies at any given time. The result of activating these currencies is reflected in the printed results on the receipt and label alike.

11.1.5.1. Program Currencies

To program the currencies, proceed as follows:

MENU
7 1 5

D - 1 = 0	D - 2 = 3
0,000 M	
DIV - 0	SKR

1. Press **MENU** (2 seconds) **7 1 5**
2. Enter the change from the local currency to the chosen currency. There are 7 fixed exchange rates as shown in Table above. In the case of choosing one programmable, also introduces the identification of it. To move from one currency to another press **X**, **F1** or **F2**.
3. After passing the 9 currencies, is possible to assign the currencies which we are going to work with, filling the fields D1 and D2. If you only want to work with a coin, the other will not have assigned the identifier (from 0 to 9) in any currency.
4. Having programmed all the values, press **MENU** 2 seconds to quit programming.

11.1.5.2. Currencies on labels

There are 6 currency sections for programming in label formats. For each of the two possible active currencies, it is possible to print: one fixed text: "CURRENCY 1" or "CURRENCY 2", the sum of the programmed currency, and the currency symbol.

Sections	Description
129	"CURRENCY 1"
130	"CURRENCY 2"
131	Amount Currency 1
132	Amount Currency 2
133	Symbol Currency 1
134	Symbol Currency 2

Table 11-2

11.1.6. Date and time [7 1 6]

This function allows you to change the date and time of the scale's internal clock.

Proceed as follows for programming:

1. Press **MENU** (2 seconds) [7 1 6]
2. Use the numeric keyboard to enter the date and time. The date is shown in the 'dd/mmm/yyyy' format and the time in the 'hhmmss' format. Press ***** to pass to another filed.
3. Having programmed all the values, press ***** to save it and **MENU** 2 seconds to quit programming

MENU
[7 1 6]

CLOCK
00 : 00 : 00
DD / MMM /YYYY

MENU

11.1.7. Programming Euro [7 1 7]

The different stages of the Euro are programmed.

STAGE 1: (1/January/1999 to 31/December/2002): the exchange rate for the Euro is fixed. The main currency will be that of each member country with the EURO as a SECONDARY currency.

STAGE 2: (1/January/2002 to 28/February/2002): the main currency of each country will become the secondary one while the EURO will become the MAIN one in all countries.

STAGE 3:(from Tuesday, March 1, 2002): the EURO will be the SINGLE CURRENCY.

Once the scale has been set up in the correct stage of the EURO, it will be capable of working and issuing receipts and/or self-adhesive labels with the amounts in EURO.

Remember the following:

- ⇒ If, at **stage 1**, you wish to see the price and the amount in EURO, press the **SHIFT** and **F1** keys. At **stage 2**, the amounts will be shown in local currency..
- ⇒ In order to display on screen the value of the exchange rate of the EURO with regard to the local currency as well the EURO STAGE (1, 2 or 3) in which the scale has been set up, just take the following steps:
 1. Switch on the scale, ensure it has been set up as master, and press **MENU** 2 seconds
 2. Select parameter [7 1 7], Programming Euro.
 3. The rate of exchange of the Euro will display.

MENU
[7 1 7]

PROG EURO
PHASE 2
CHANGE 166.386

MENU

Type the following code:

Stage 1 - Stage2 ⇒ **6022**

Stage 2 - Stage 3 ⇒ **9808**

- a. The following message displays: CHANGE TO STAGE X?
- b. Press *****
- c. Repeat the necessary code.
4. Press **MENU** 2 seconds to quit programming menu.

11.1.8. Programmable EAN [7 1 8]

EAN13 bar codes to be defined by the user for articles are those which can be selected in the totals bar code field when defining the PLU. (See section 3.1.Articles)

MENU
7 1 8

PROG	7.1.8
DATA	8 - 8
EAN PROGRAMM	

1. Make sure the scale is set up as master, press **MENU** 2 seconds.
2. Select parameter **7 1 8** , programmable EAN.
3. Enter the value of the first EAN from the table in section 5.1.6 Configuration EAN-13.
4. Press **F2** to move on to the following EAN.
5. Press **MENU** 2 seconds to quit the programming menu.

MENU

11.1.8.1. CONF. EANC01.. EANC10 [7 1 8 X]

EAN13 bar codes to be defined by the user for articles are those which can be selected in the field of totals bar code when defining the PLU. (See par. 3.1.1. CREATION/MODIFICATION OF PLUS)

MENU

PROG	7.1.8.1
EAN PROG	1 - 11
EANC01	

7 1 8 1

PROG	7.1.8.10
EAN PROG	10 - 11
EANC10	

MENU

1. Ensure the scale is a MASTER, enter general set-up mode and seek parameter EANC01... EANC10.
2. Enter the previous values in accordance with the chart in par. EAN-13 FORMAT.

Press the ***** key to store the parameter. Go on to program the next parameter or check the scale's new working mode by switching to position 0.

Press **MENU** 2 seconds to quit the programming menu.

Where X = 1, 2...10

11.1.8.2. EAN128 Global [7 1 8 11]

This section allows defining **EANN 128 global**. To get this:

MENU

7 1 8 11

PROG	7.1.8.11
EAN PROG	11 - 11
EAN 128 GLOBAL	

1. Select parameter **7 1 8 11**
2. Edit EAN128 Format (see EAN/CODE 128 appendix)

Press **MENU** 2 seconds to quit the programming menu.

MENU


PROG	7.1.8.11
EAN 128 GLOBAL	

11.1.9. Loyalty points [7 1 9]

The 500 Range scale allows for the programming of loyalty points. It is a percentage of a total amount. This percentage is entered as follows:

MENU
7 1 9

1. Make sure the scale is a MASTER, press **MENU** 2 seconds.
2. Press 7 1 9.
3. Enter the percentage of loyalty points.

 To programme the text that will appear on the receipt, press **X** and enter the text (20 characters). Press ***** to save it.

MENU

4. Press **MENU** 2 seconds to quit the programming menu.

The receipt format must be correctly configured in order for it to be printed on the receipt (see 9.2.1. *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.

11.2. SELF-SERVICE MODE [7 2]

In this mode you proceed by placing a weight on the tray and, on pressing the corresponding direct key, you get the label of the product selected, without a cashier's intervention.

DIBAL 500 Range models of scale which can operate in this working mode.

In self-service mode only the direct keys are operational, and depending the model, simple number keys (Keys 0...9).

PROG	7.2
DATA	2 - 4
SELF-SERVICE MODE	

11.2.1. Self-service Mode Configuration [7 2 1]

To configure the scale in self-service mode the process is as follows:

1. Make sure the scale is set up as master, press **MENU** 2 seconds.
2. Press **7 2 1**.
3. Use **C** to choose between self-service mode, YES, or assisted mode, NO.
4. Press ***** to save.
5. Press **MENU** 2 seconds to quit the programming menu.

MENU

7 2 1

C

MENU

PROG	721
SET-UP	
NO	

! If the Self-service mode is selected, the following parameter functions are not available: Automatic Weight, Fix Price and Label per Weight.

! When a device in self-service mode runs out of paper, press any key to move the paper forward. To continue, press another key.

In the case of the SELF-SERVICE MODEL scales, there are 3 possible values for setting up the self-service mode:

MENU

7 2 2

	721
SELF-SERVICE MODE	0

0: Non-self-service Mode, assisted sale.

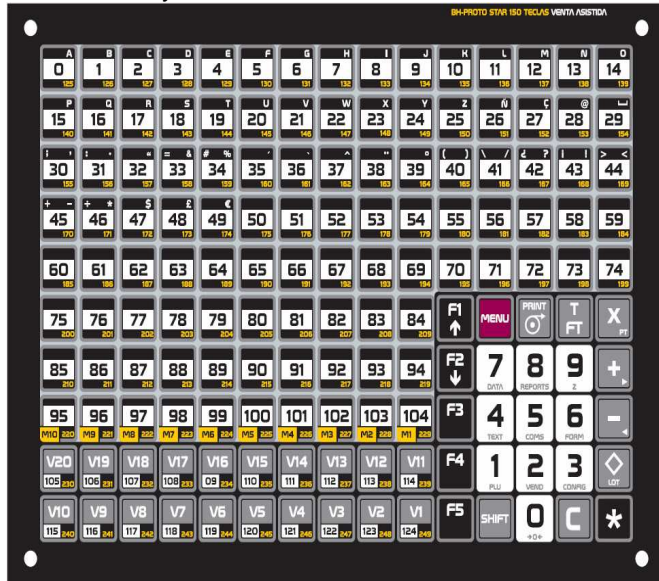
You call the article (direct key or article code) and press the cashier key to print the label. In addition, the numeric keypad is operative.

With 100 keys:

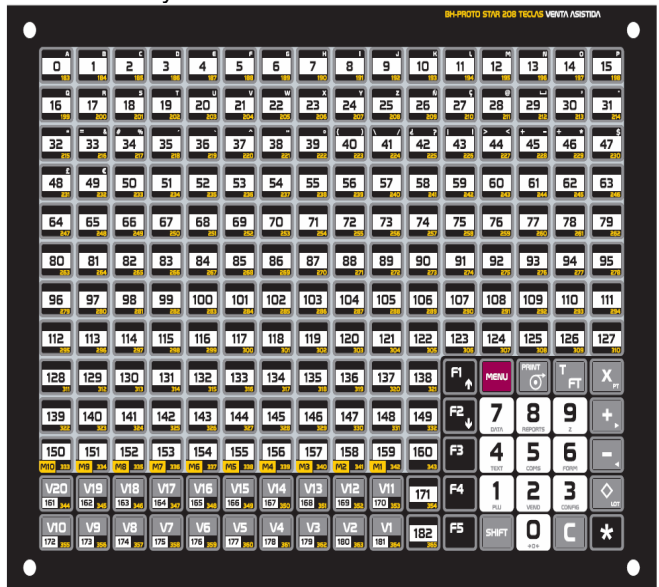
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

USER'S MANUAL

With 150 keys:



With 208 keys:



1: Self-service Mode with direct keys.

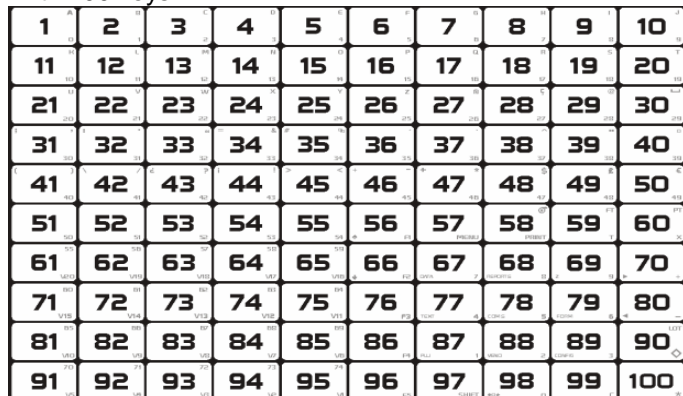
Press the PLU keys to print the label directly. In addition, the numeric keypad is not operative.

7 2 1

721
MODE SELF-SERVICE I

1
*

With 100 keys:



With 150 keys:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150

With 208 keys:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208

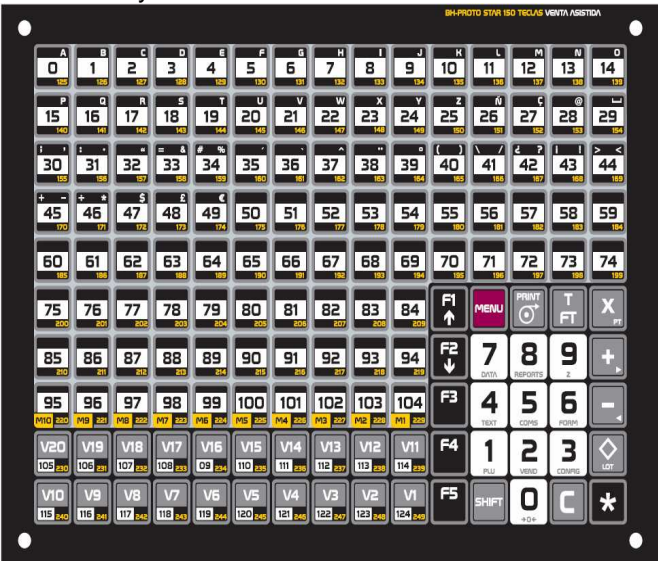
7 2 1
2
*



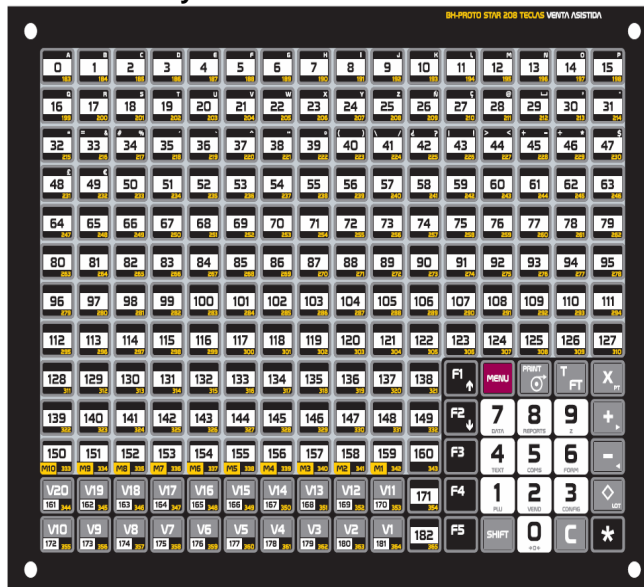
2: Self-service Mode with direct keys and assisted keypad.

If you press the PLU keys the label is printed directly. In addition, the numeric keypad is operative.

With 150 keys:



With 208 keys:



Once the option is selected, press *****.

11.2.1.1. Directions for use

In order to print a label:

- Place the product on the tray.
- Press the code key corresponding to the product.
- The scale will memorise the operation and print the label.

! All operations carried out on the scale will be assigned as sales to memory 1.

! When a device in self-service mode runs out of paper, place the new roll in position and press any key to continue.

11.2.2. Self-service: Selecting the fixed code

[7][2][2]

MENU

[7][2][2]

KEY


When working in self-service mode, you can set the article to:

- No set code. (Key **0**)
- The entire keypad. (Key **1**)
- The first row of direct keys. (Key **2**)
- The left or right half of the keypad. (Key **3**)
- Each quarter of the keypad. (Key **4**)

In the case of the first two options, the article is visible on the scale until it is modified or changed for another.

The code remains on display while the scale is operating.

! If any of the article's fields is modified for some reason (e.g. the price), the change will be displayed immediately if the scale is a master scale and, if any key is pressed, in the event that it is a slave scale.

 The scale must be operating in self-service mode in order to be able to select a code and set it.

MENU

7 2 2

PROG 7.2.2
SET-UP SELF-SERVICE
FIX CODE

In order to select the fixed code:

1. Make sure that the scale has been set up as master. Press **MENU** for 2 seconds.
2. Press **7 2 2**.
3. Press *****.
4. Once the mode has been determined, whether 1 line, 2 halves or the four quarters type has been selected, press ***** to go on to select the PLU associated with each case.
5. Press the key of the code to be fixed. If the code exists, its data will be modified on the visual display unit. If it does not exist, a code error message will display. After three seconds, if another code has not been entered, a code selected message will display again.
6. If you wish to delete the fixed code, press **C**.

The code will remain as the selected one until it is replaced by another or it is deleted as a fixed code.

In the event that the entire keypad is selected, once the code is set, press any direct key to access the fixed article. If one line is selected, press any key in the first line of direct keys to access the fixed code and any other key to access the article programmed in this direct key.

MENU

7. Press **MENU** to quit the programming menu.

11.3. PROGRAMMING CODES [7 3]

PROG DATA PASSWORDS	7.3 3 - 4
---------------------------	--------------

This option is used for programming the access codes to the scale's different programming options. They are 4-digit codes. The structure is the following:

A Super user code allows access to all programming options.

In addition there are 4 codes with restricted access to certain programming options. These codes are:

11.3.1. Master Password [7 3 1]

This key permits access to all programming.

To program this code, do as follows:

1. Press **MENU** 2 seconds.
2. Press **7 3 1**
3. The scale will display the message: "Enter new Super user code". Type in the 4-digit code.
4. Press *****
5. Press **MENU** 2 seconds to quit the programming menu.

MENU
7 3 1

PROG MASTER PASSWORD	7.3.1
-------------------------	-------

MENU

11.3.2. Programming Password [7 3 2]

If this code is programmed, it will have to be entered in order to gain access to programming: 1- Articles, 3-Section configuration, 4- Texts, 6- Formats.

To program this code, do as follows:

1. Press **MENU** 2 seconds.
2. Press **7 3 2**
3. The scale will display the message: "Enter new article code". Type in the 4-digit code.
4. The machine will ask you to repeat the key.
5. Machine will display OK.
6. Press **MENU** 2 seconds to quit the programming menu.

MENU
7 3 2

PROG PROG PASSWORD	7.3.2
-----------------------	-------

MENU

11.3.3. Vendors Passwords [7 3 3]

If this code is programmed, it will have to be entered in order to gain access to programming: 2- Employees Code.

To program this code, do as follows:

1. Press **MENU** 2 seconds.
2. Press **7 3 3**
3. The scale will display the message: "Enter new employee code". Type in the 4-digit code.
4. Repeat the code and will display OK.
5. Press **MENU** 2 seconds to quit the programming menu.

MENU
7 3 3

PROG VENDORS PASSWRORD	7.3.3
---------------------------	-------

MENU

11.3.4. Communications Password [7 3 4]

If this code is programmed it will have to be entered in order to gain access to programming: 5 – Communications.

To program this code, do as follows:

1. Press **MENU** 2 seconds.
2. Press **7 3 4**.
3. The scale will display the message: "Enter new communications code". Type in the 4-digit code.
4. Repeat the code and will display OK.
5. Press **MENU** 2 seconds to quit the programming menu.

MENU
7 3 4

*

MENU

PROG
COMMS PASSWORD 7.3.4

11.3.5. Lists Password [7 3 5]

If this code is programmed it will have to be entered in order to gain access to programming: 8- Reports, 9- Deleted.

To program this code, do as follows:

1. Press **MENU** 2 seconds.
2. Press **7 3 5**.
3. The scale will display the message to introduce the key. Type in the 4-digit code.
4. Repeat the code and will display OK.
5. Press **MENU** 2 seconds to quit the programming menu.

MENU
7 3 5

*

MENU

PROG
LIST PASSWORD 7.3.5

11.4. PRINTING PARAMETERS [7 4]

PROG	7.4
DATA	4 - 4
PRINTING PARAMETERS	

With this type of programming you can lay down the different criteria by which the scale will print the information.

11.4.1. Label parameters [7 4 1]

Here the parameters used for printing the labels are established. The process is as follows:

1. Press **MENU** 2 seconds.
2. Press **7 4 1**.

The label parameters are:

MENU
7 4 1

PROG	7.4.1
PRINTING	1 - 2
LABEL PARAMETERS	

11.4.1.1. Label Way Out [7 4 1 1]

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, between 50 and 60 is an acceptable value).

Press ***** to save and go on to program contrast or press **Menu** 2 seconds to quit the programming menu.

PROG	7.4.1.1
LABEL WAY OUT	10

11.4.1.2. Label Contrast [7 4 1 2]

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).

Press ***** to save and move on to program overall format or press **MENU** 2 seconds to quit the programming menu.

PROG	7.4.1.2
LABEL CONTRAST	0

11.4.1.3. Label Format [7 4 1 3]

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'.
! Quick change Format Label, Working in normal mode, press **PRINT**

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 60*' ⇒ 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.

Press ***** to save and move on to program the headline or press **MENU** 2 seconds to quit the programming menu.

PROG	7.4.1.3
LABEL FORMAT	21

* Only models: S-545 and S-547 → Max 60

11.4.1.4. Heading [7][4][1][4]

PROG	7.4.1.4
LABEL WAY OUT	10


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

'0' - No Backward.

'1' - Backward.

Enter the required value as a number from 0 to 1.

Press ***** to save and move on to program Paper Type or press **MENU** 2 seconds to quit the programming menu.

 When you change the exit distance, the way that the fields take place, changes too, so there is the problem. And, the same programmed label within/out a backward movement, it is printed differently.

PROG	7.4.1.5
TYPE OF PAPER	1

11.4.1.5. Type of Paper [7][4][1][5]

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)

PROG	7.4.1.6
FOR. TOTAL L 1	21

Press ***** to save and move on to program the Level 1 Totals Format or press **MENU** 2 seconds to quit the programming menu.

11.4.1.6. Total format Level 1 [7][4][1][6]

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.

PROG	7.4.1.7
FOR. TOTAL L 2	0

Press ***** to save and enter Level 2 Totals Format programming or press **MENU** 2 seconds to exit the programming menu.

11.4.1.7. Total Format Level 2 [7][4][1][7]

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.

PROG	7.4.1.8
FOR. TOTAL L 3	15

Press ***** to save and enter Level 3 Totals Format programming or press **MENU** 2 seconds to exit the programming menu.

11.4.1.8. Total Format Level 3 [7][4][1][8]

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.

Press ***** to save and enter EAN format of Level 1 Totals programming or press **MENU** 2 seconds to exit the programming menu.

11.4.1.9. EAN Format of level 1 totals [7419]

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 *CONF. EANC01...EANC10*)

PROG	7.4.1.9
FOR. EAN TOTAL L 1	0

If this parameter is set to 0, the format of the labelled article will be printed. (See *EAN-13 FORMAT*)

Press * to save and enter level 2 EAN programming, or **MENU** 2 seconds to exit.

11.4.1.10. EAN Format of level 2 totals [74110]

Here, the EAN format of the level 2 totals label is selected

PROG	7.4.1.10
FOR. EAN TOTAL L 2	1

If this parameter is set to 0, the format of the labelled article will be printed. (See sect. *EAN-13 FORMAT*)

Press * to save and enter level 3 EAN programming, or **MENU** 2 seconds to exit the programming menu.

11.4.1.11. EAN Format of level 3 totals [74111]

Here, the EAN format of the level 3 totals label is selected

PROG	7.4.1.11
FOR. EAN TOTAL L 3	0

If this parameter is set to 0, the format of the labelled article will be printed. (See *EAN-13 FORMAT*)

Press * to save and enter Centre label programming, or **MENU** 2 seconds to exit the programming menu.

11.4.1.12. Centre Label [74112]

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

PROG	7.4.1.12
CENTRE LABEL	0

Press * to save and move on to program thermal head optimum distance or press **MENU** 2 seconds to quit the programming menu.

11.4.1.13. Centre Receipt in the labeller [74113]

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

PROG	7.4.1.13
CENTRE TICKET	4

Pressing * in order to save and programming the thermal head optimum distance or press **MENU** till you leave the configuration menu.

11.4.1.14. Distance Opto Thermal Head [7][4][1][14]

PROG	7.4.1.14
D- OPTO THERMAL HEAD	10

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).

Press ***** to save and move on to program label paper collector or press **MENU** 2 seconds to quit the programming menu.

11.4.1.15. Backing Paper Rewinder [7][4][1][15]

PROG	7.4.1.15
BACKING PAPER	
YES	

This parameter controls the label paper collector.

'YES' – Label paper is collected.

'NO' – Label paper is not collected.

Press ***** to save and **MENU** 2 seconds to quit the programming menu.

11.4.2. Receipt parameters [7][4][2]

With the aid of this type of programming the parameters to be used when printing receipts are set. The programming process is as follows:

1. Press **MENU** 2 seconds
2. Press **7 4 2**

MENU
7 4 2

PROG	7.4.2
PRINTING	2 – 2
RECEIPT PARAMETERS	

11.4.2.1. Receipt contrast [7][4][2][1]

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).

PROG	7.4.2.1
RECEIPT CONTRAST	0

Press ***** to save and move on to program overall format or press **MENU** 2 seconds to quit the programming menu.

11.4.2.2. Lines End of Receipt [7][4][2][2]

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.

PROG	7.4.2.2
LINES END OF TICKET	4

Press ***** to save and move on to program the receipt format or press **MENU** 2 seconds to quit the programming menu.

11.4.2.3. Receipt format [7][4][2][3]

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.

PROG	7.4.2.3
CONTR ETI	10

To modify this parameter: Enter the required value. Press ***** to save and move on to program the receipt parameter on the label or press **MENU** 2 seconds to quit the programming menu.

7 4 2 4

PROG	7.4.24
RECEIPT OF LABEL	10

11.4.2.4. Receipt of label [7 4 2 4]

With this parameter you determine on which printer the receipt is to be printed:

0 receipt per printer.

1 receipt per labelling machine.

To modify this parameter: Enter the required value. Press ***** to save and move on to program the receipt parameter on the label or press **MENU** 2 seconds to quit the programming menu.

* Only model S-547

11.4.3. Calibrating opto label

The scale let us make an automatic adjustment of the opto. Once in this menu, press subtotal **◇** key and the scale will adjust automatically the opto.

PROG	7.4.3
PRINT PARAM	2 - 4
CALIBRATING OPTO LABEL	

12.REPORTS [8]

12.1. LISTS [8 1]

! To avoid manipulation in the management of the cash drawer, lists involving the sum total of sales cannot be issued until the CASH DRAWER LIST has previously been printed.

! In the Lists mode, press **PRINT**, to print a list of all possible lists, ordered according to number.

To enter in this option press **MENU 8 1**.

Change from one option to another by using **F2** to go down the menu and **F1** to go up. When the list is selected press *****.

12.1.1. Report of Articles by Code from 00000 to 99999 [8 1 1]

By pressing the **X** key, you can select the range of codes, the department, the section or the VAT rate. 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

12.1.2. Report of Articles by PLU [8 1 2]

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

12.1.3. Report of Articles by Equivalence PLU / CODE [8 1 3]

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

12.1.4. Sales per Article by Code from 0 to 999999 [8][1][4]

This list gives information about sold articles classified by code. Pressing the **X** key, you can select the range of codes, the department, the section or the VAT type. 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

- 1** → level 1 (day's sales)
- 2** → level 2 (weekly sales)
- 3** → level 3 (monthly sales)

In order to position ourselves in the level of accumulated, press **F1** until Level AC. There are three levels of accumulation, from 1 to 3. To select the accumulated levels, press the key (**1**, **2** and **3**) corresponding to the level selected (1, 2 & 3 respectively). For further information on accumulated levels, see the section 13.2, *DELETING LEVELS*. By default, if there is not selected any level, the list corresponding to level 1 will be printed.

12.1.5. Sales per Article by PLU [8][1][5]

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

12.1.6. Sales by Vendor/Article [**8** **1** **6**]

With the aid of the sales assistants' keys **V0**... **Vxx**, you can enter the number of the sales assistant whose sales you wish to print. To get a list of all the sales assistants, press **T/FT** key. 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

12.1.7. Big Total Group [**8** **1** **7**]

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:

- 1** → level 1 (day's sales)
- 2** → level 2 (weekly sales)
- 3** → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (**1**, **2** and **3**) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.8. Sales per Article by Code from 00000 to 999999 [8][1][8]

By pressing the **X** key you can select the range of codes, the department, the section or the VAT rate. 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 unweighed 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:

- 1** → level 1 (day's sales)
- 2** → level 2 (weekly sales)
- 3** → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (**1**, **2** and **3**) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.9. Big Total Group [819]

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

***** WHOLESALERS 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 NONWEIGHED 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:

- 1** → level 1 (day's sales)
- 2** → level 2 (weekly sales)
- 3** → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (**1**, **2** and **3**) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.10. V.A.T Totals [8** **1** **10**]**

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 – V.A.T. – TOTAL

V.A.T TOTAL

There are different types of levels:

- 1** → level 1 (day's sales)
- 2** → level 2 (weekly sales)
- 3** → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (**1**, **2** and **3**) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.11. Sales per Section [8 1 11]

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

SECTION – TOTAL

There are different types of levels:

- 1 → level 1 (day's sales)
- 2 → level 2 (weekly sales)
- 3 → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (1, 2 and 3) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.12. Hourly Sales Report [8 1 12]

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:

- 1 → level 1 (day's sales)
- 2 → level 2 (weekly sales)
- 3 → level 3 (monthly sales)

Certain lists are obtained by levels of accumulation. There are three levels of accumulation, from 1 to 3. To select levels of accumulation, having selected the list to be printed, press the department key (1, 2 and 3) corresponding to the level selected (1, 2 & 3 respectively). By default, if no level is selected, the list corresponding to level 1 will be printed.

12.1.13. Last PLU modified [8 1 13]

This list includes the latest PLU's modified according to code. By pressing the X key, you can select the range of codes, the department, the section and the VAT rate. 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

To delete the last modified PLUs press C. Press * and press * again to confirm the deletion or C to cancel it. Once deleted it displays in the screen "MODIF DEL" Press * to return to the last modified PLUs of the list.

12.1.14. Cash Drawer Report [8][1][14]

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. If, on entering the amount to be checked, a mistake is made, the **C** key will delete the amount entered.

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/CHEQUE
CREDIT

**** CASH DRAWER STATE ****

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

CASH SALES
LODGEMENTS
WITHDRAWALS
REAL AMOUNT
CHECKED AMOUNT
DIFFERENCE

12.1.15. Traceability Report [8][1][15]

This list includes the animals programmed in the scale.

PROD. – REF. – NUMBER – WEIGHT

ADD WEIGHING.:

12.1.16. On Credit Customers Report [8][1][16]

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

CUSTOMER – AMOUNT

12.1.17. Fiscal Report [8][1][17]

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. This operating mode must be configured in test 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 the date, press **X** when positioned over the start or end date and enter the date with the number keypad using the format “ddmmy”.

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, press **PRINT**.

! 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.**

After printing the fiscal list, the fiscal memory can be specifically deleted. To do this, press the subtotal key **∅** repeatedly, or reset the scales completely.

If there are any receipts in the memory that have never been printed, the following message will appear “UNLISTED COPIES”. After deleting correctly, the message “DELETED” will appear.

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.

The level of occupation of the fiscal memory can be consulted at any time by entering the fiscal list, and pressing **+** in the date selection window. The following message will appear “Occupied memory: XX%”, indicating how much memory is currently used.

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).

12.1.18. Stock Report [**8** **1** **18**]

There is a new list in the **MENU** **8** **1** **18** called “Stock Report” in which prints the current stock of all articles that there are configured in the scale.

For list optimization, only the articles that have the stock different from zero are printed. The articles of the type “return” do not have any sense for the control stock














































COD. – STOCK – DESIGNATION

CODES.....:

000000 999999
STOCK REPORT

Logo:

The dropdown menu shows us all the existing logos in the program, fixed and programmable. In the case below is the fixed logo list:

Num.	Type	Logos	Num.	Type	Logos	Num.	Type	Logos
1	Cow		17	Mushroom		33	Octopus	
2	Lamb		18	Lobster		34	Watermelon	
3	Duck		19	Lettuce		35	Pork	
4	Cod		20	Lemon		36	Cake	
5	Cherries		21	Apple		37	Rabbit	
6	Grapes		22	Black pudding		38	Pumpkin	
7	Chorizo		23	Banana		39	Pizza	
8	Leaks		24	Tomato		40	Tails	
9	Jam		25	Avocado		41	Ice cream	
10	Olives		26	Carrot		42	Corn	
11	Nut		27	Pepper		43	Pastry	
12	Candy		28	Cheese		44	Pineapple	
13	Chicken		29	Pear		45	Onion	
14	Eggplant		30	Fish		46	Turkey	
15	Bread		31	Fish1				
16	Meat		32	Pepper1				

There are 8 fixed logotypes:

LOGO-1 BUTCHER'S



LOGO-2 COLD MEAT COUNTER



LOGO-3 POULTRY



LOGO-4 FISH COUNTER



LOGO-5 FRUIT COUNTER LOGO-6 FREE



LOGO-7 GREEN POINT
(Large)



LOGO-8 HEALTH REGISTER



LOGO-9 GREEN POINT
(Small)



LOGO-10 'E'



12.3. FONTS [8 3]

This menu option selects magnification and effects.

13. DELETIONS [9]

13.1. Z DELETION [9 1]

There are 3 independent total meters in the scale shown as levels 1, 2 and 3. This deleting will turn the accumulating meters to zero for all levels.

To carry out this operation:

1. Access to the list menu pressing **MENU** for 2 seconds.
2. Press the **9 1** keys.
3. Press the ***** key 6 times.
4. The scale gives 2 options: Press the ***** key (YES), or press the **X** key (NO):
 1. Pressing the ***** key (YES), a list of clearance to zero of the 1 level will be printed, and the reset of all the levels. and the sales assistants will also be removed.
 2. Pressing the **X** key (NO), a clearance to zero list will be printed. The sales assistants will also be removed.

13.2. DELETING LEVELS [9 2]

The scale has 3 independent counters of totals called LEVELS 1,2 and 3

The deletion of a counter total is accumulated in the total of the accumulator of the level immediately above it.

For example, the sales of a day are accumulated in level 1. At the end of the day, they are deleted and accumulated in level 2. This level accumulates weekly sales, and, consequently, these sales are not deleted until the end of the week. When deleted, they are accumulated in level 3, the monthly sales. When level 3 is deleted, whatever has been accumulated will disappear from the scale.

To delete the contents of one of these accumulators:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 2** keys.
3. Press *****.
4. Press the key of the level you wish to delete using the direct keys **1**, **2** and **3** respectively for levels 1,2 and 3.
5. Press the ***** key 4 times.
6. The scale gives 2 options: Press the ***** key (YES), or press the **X** key (NO):
 - Pressing the ***** key (YES), a clearance to zero list will be printed. The sales assistants will also be removed.
 - Pressing the **X** key (NO), it is printed a list with the accumulated of this level, but in this case won't be a reset of the level and the vendors won't be removed.

13.3. PARCIAL DELETINGS [9 3]

13.3.1. Articles Deletion [9 3 1]

This menu option deletes the article store in the memory of the scale.

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 1** keys.
3. Press ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or Press the **X** key (NO):
 - Pressing the ***** key (YES), the stored articles, in the scale, will be removed.
 - Pressing the **X** key (NO), the articles deleting will be cancel.

13.3.2. Formats Deletion [9 3 2]

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 2** keys.
3. Press the ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or Press the **X** key (NO):
 - Pressing the ***** key (YES), all the non fixed formats of receipt and label of the scale will be deleted.
 - Pressing the **X** key (NO), the formats deletion will be cancelled.

13.3.3. Traceability Deletion [9 3 3]

This menu option let us delete associated traceability data. Three deleting actions are allowed related to traceability: full deletion, article deleting and active article deletion.

13.3.3.1. Traceability Complete deletion [9 3 3 1]

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 3 1** keys.
3. Press the ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or press the **X** key (NO):
 - Pressing the ***** key (YES), the function is Traceability total deletion
 - Pressing the **X** key (NO), it cancels the Traceability total deletion.

13.3.3.2. Deleting Only Products [9332]

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 3 2** keys.
3. Press the ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or Press the **X** key (NO):
 - Pressing the ***** key (YES), it deletes the products registered in traceability.
 - Pressing the **X** key (NO), It cancels the deletion of the products registered in traceability.

13.3.3.3. Deleting Active Animals [9333]

When registering a product by reading the EAN code 128, or reading the EAN 128, a code stored in the scale. It is stored as an active product. This association remained even when the scale is off until there is another reading of the EAN128 code scanner or until the active product is cleared.

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 3 3** keys.
3. Press the ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or Press the **X** key (NO):
 - Pressing the ***** key (YES), It deletes the active products.
 - Pressing the **X** key (NO), it cancels the deletion of active products.

13.3.4. Configuration Deletion [934]

To carry out this operation:

1. Access to the menu pressing **MENU** during 2 seconds.
2. Press the **9 3 4** keys.
3. Press the ***** 3 times.
4. The scale gives 2 options: Press the ***** key (YES), or Press the **X** key (NO):
 - Pressing the ***** key (YES), The configuration default values are restored.
 - Pressing the **X** key (NO), The configuration default values restoration is cancelled.

14.MACROS [10]

DIBAL Gama 500 models are capable of recording a sequence of keystrokes and subsequently reproducing said sequence.

This section shows how these keys for direct access to the functions most commonly used by the user are programmed.

To run the programmed macro, press the **MENU** key and, immediately after, the key to which the macro is assigned.

14.1. PROGRAM. MACROS [10 1]

Press the **MENU** key for 2 seconds.

To move from one option to another, use **F2** to move down the menus and F1 to move up.

Select the 10 Macros option, press ***** and, here, select option 1, Prog. Macros.

The scale will display each of the steps for programming macros:

MENU

PROG	10.1
MACROS	1-4
PROG. MACROS	

F2 x 9

***** 1

1. Enter the **number** of the **macro** you wish to program.

X

MACRO -	
---------	--

2. Select the **direct key** to which the macro is to be assigned on the keyboard

MACRO 2	
MACRO KEY	
PLU 0	

! If the keyboard has macro keys, the first 10 macros must correspond to the macro key.

X

MACRO 2	
DESCRIPTION	M

3. Program the **description of the macro**. This is text which helps the user identify the macro's function.

X

MACRO 2	
PASSWORD	M

4. Program the **macro password**. Optionally, a 4-digit password can be programmed to enable or disable the running of the macro.

X

5. Last of all, you are prompted to press the key you have assigned to start recording the macro.

At that point, the scale will display on the weighing screen, and memorize all the keystrokes until ***** is pressed for 2 seconds.

! At macro programming, by pressing **PRINT** you can obtain a complete list of the current macros.

14.2. COPYING MACROS [10 2]

It is possible to make copies of one macro to others, either to modify data without losing the previous ones, or to generate new data. To do so:

MENU

PROG	10.2
MACROS	2-4
COPY MACROS	

F2 x 9

***** **2**

Press **MENU** for 2 seconds.

To move from one option to another, use **F2** to move down the menu and **F1** to move up.

Select the 10 Macros option, press ***** and, here, select option 2, Copy Macros.

The scale will display each one of the steps for copying macros:


X

SOURCE	---
TARGET	
MACRO	

X

SOURCE	1
TARGET	---
MACRO	

1. Enter the number of the **source** macro you wish to copy.
2. Enter the number of the target macro to which you wish to copy the source macro data.
3. Select the **direct key** to which the macro is to be assigned on the keyboard

 If the keyboard has macro keys, the first 10 macros must correspond to the macro key.

4. To quit programming, press **MENU** to return to working mode.

14.3. DELETING MACROS [10 3]

In this section you can delete the macros you have programmed. To access this setting:

Press **MENU** for 2 seconds.

To move from one option to another, use **F2** to move down the menu and **F1** to move up.

Select the 10 Macros option, press ***** and, here, select option 3, Delete Macros.

Enter the number of the macro you wish to delete and press.

To quit programming, press **MENU** to return to working mode.

MENU

PROG	10.3
MACROS	3-4
DELETE MACROS	

F2 x 9

***** **3**

14.4. EDITING MACROS [10 4]

MENU

F2 x 9
* 4

```
PROG          10.4
MACROS        4.4
EDIT MACROS
```

```
MACRO  ---
```

```
MACRO 1          CTR
ACCESS TO PAPER TYPE
MENU * , NUM 7,
```

```
MACRO 1          EDT
ACCESS TO PAPER TYPE
MENU * , NUM 7,
```

In this section, you can edit the sequence of keys you have programmed in a given macro. To access this setting:

Press MENU for 2 seconds.

To move from one option to another, use **F2** to move down the menu and **F1** to move up.

Select the 10 Macros option, press * and, here, select option 4, Edit Macros.

Enter the number of the macro you wish to edit and press * to display the sequence of strokes of the keys corresponding to the macro.

! If, at the end of the description of the key, an asterisk (*) displays, this means that it is an extended key stroke.

There are two operating modes :

Macro sequence control:

This operating mode is for controlling the keystrokes assigned to the corresponding macro. In this mode, the keys have the following functions:

- + Move forward in a keystroke position.
- Mover backward in a keystroke position.
- C Delete the current keystroke.
- T/FT Insert in the current position.
- * Save the changes in the macro.

Editing macro keystrokes:

In this operating mode, the scale memorises the keys that are pressed in blinking position.

! To change from control mode to edit mode and vice versa, just keep the total * key pressed.

15.APPENDIX

15.1. TROUBLESHOOTING

DIBAL 500 Series 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.

The following problems and error messages may arise with regard to weighing.

15.1.1. 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.
- 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 clearance to zero key **SHIFT** and **0**.

THE WEIGHT IS NEGATIVE

- Restart the scale, making sure that the weighing plate is empty.

15.1.2. 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 section *SETUP AS MASTER OR SLAVE*)
- 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 *section Ethernet communication parameters*
- Check the group number in *section GROUP*

THERE IS NO COMMUNICATION BETWEEN SCALES

- Check the connections in the scale
- Check the set-up and address of the MASTER scale in *section SETUP AS MASTER-OR SLAVE*.

15.1.3. Problems with articles

The following error messages and problems can arise in relation to the programming and use of PLU's:

ERROR PLU

- The pressed key has not been programmed with any PLU. See *section 3.1.1 Creating/Modifying a PLU* to program this key.

ERROR CODE

- When you enter the code, you do not gain access to the PLU. Check that the direct price function has not been activated. (See *section 2.3.1. DIRECT PRICE*)

THE AMOUNT IN EURO DOES NOT APPEAR

- Check *section 5.1.3. CONF. TYPE OF RECEIPT* in the MANUAL.

15.1.4. 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 *section 11.4. PROGRAMMING PRINTING PARAMETERS*.
- Wipe the thermal head with a dry cloth.

THE RECEIPT IS NOT FULLY PRINTED

- Set the parameter END OF RECEIPT LINES (*see section 11.4.2.2 END OF RECEIPT LINES*) at a value other than zero.

THE LABEL IS NOT PRINTED

- Register the sales assistants. (See *section 4.1 REGISTERING SALES ASSISTANTS*)
- Check that the selected article is registered.
- Check that the labelling machine is correctly set-up. (See *section 11.4 PRINTING PARAMETERS*.)
- 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 *section 4.1..REGISTERING*)

THE FIRST LINE OF THE LABEL DOES NOT CORRESPOND WITH THE PLU

- Check that the value of the parameter for headings is 1. (See *section 11.4.1.4. HEADING*)

THE EURO FIELD IS EITHER INCORRECT OR FAILS TO APPEAR

- Check *section 5.1.3 CONF. TYPE OF RECEIPT* in the MANUAL.
- Check that the label format incorporates the sections dealing with the Euro. (See *section 9.1.1 PROGRAMMING LABEL FORMATS*).
- Check the current phase of the EURO. (See *section 11.1.7 PROGRAMMING EURO*)

LABEL ERROR

- Replace the reel of self-adhesive labels with a new one.

PAPER ERROR

- Change the thermal paper reel.

15.1.5. Problems with the screen an keyboard

The following problems may arise in relation to the display and the keyboard:

THE SALES ASSISTANTS' KEYS DO NOT WORK

- Register the sales assistants. (See *section 4.1 REGISTERING SALES ASSISTANTS*)
- Check that the articles used in the operation are all registered.

THE F3 KEY (FREE PRICE) DOES NOT WORK

- Set the parameter 08: FREE PRICE to YES (See *section 5.1.2.3. FREE PRICE*).

A PLU CANNOT BE TRACED BY ITS CODE

- Check the number of significant figures with which your scale works: consult *section 5.1.7.2 CODE FIGURES*

THE ◇ (SUBTOTAL) KEY DOES NOT WORK

- Enable the subtotal function. See *section 5.1.2.8 SUBTOTAL*.

15.1.6. Programming Problems

The following difficulties may arise when trying to program the scale:

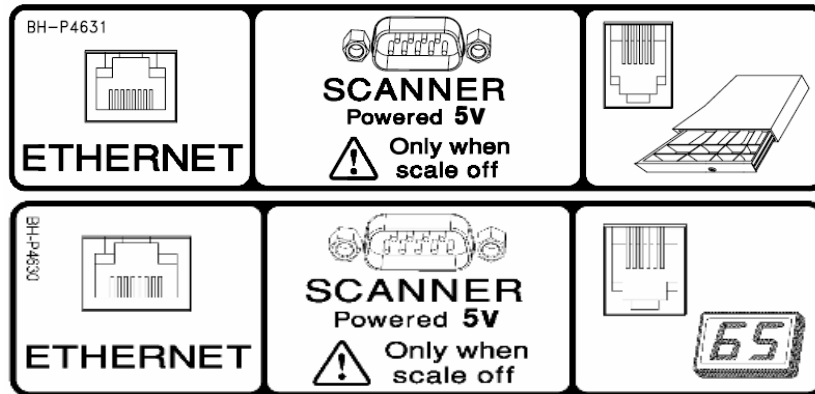
THE SCALE CANNOT BE PROGRAMMED

- Ensure the scale is set up as a MASTER.. (See *section 7.4.1.1 .SET UP AS MASTER-OR SLAVE.*)
- Ensure the function you wish to program is activated in the scale *test mode*.

If the problem is not solved by following these different possible solutions, consult the ASSISTANCE BY PHONE section to obtain the available resources for the support and maintenance of the scale.

15.2. COMMUNICATION CONNECTORS

The communication connectors are located on the lower part of the scale. The arrangement and characteristics of the connectors are as follows.



 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)

15.3. TURNOMATIC

The 500 Range 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 a 4-----N.C.

15.4. 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

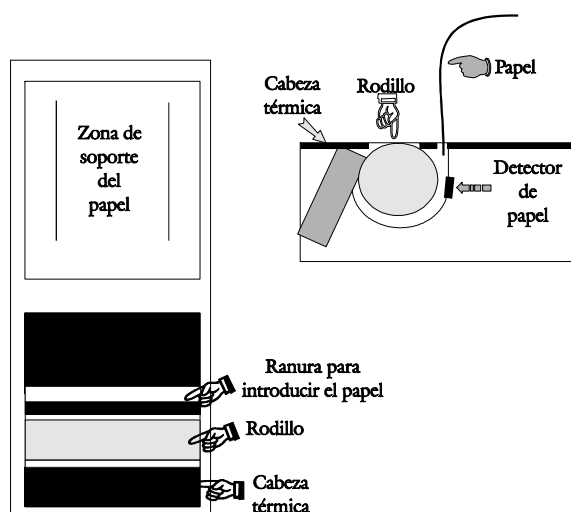
- 2----- GND (negative end of the electromagnet)
- 3----- Indication signal of open cash drawer.
- 4----- +24V (positive end of the electromagnet)
- 6----- Earth connection(Indication signal of closed cash drawer.)
- 1 y 5----- N.C.

15.5. CHANGE OF PAPER

15.5.1. Changing paper in the printer

To change the paper in the printer, proceed as follows:

- Open the new reel of paper and remove the part containing glue.
- Open the cover. Remove the remains of the paper and the reel holder.
- Use the lever on the right of the printing head to remove pressure from the same (see drawing on the inside of the printer cover).
- 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.
- Turn the lever to its original position.
- Hold  down until the paper until the paper comes out on the other side of the holder. Then slip the paper through the slot of the lid.
- Place the holder in the area indicated for that purpose and close the cover.





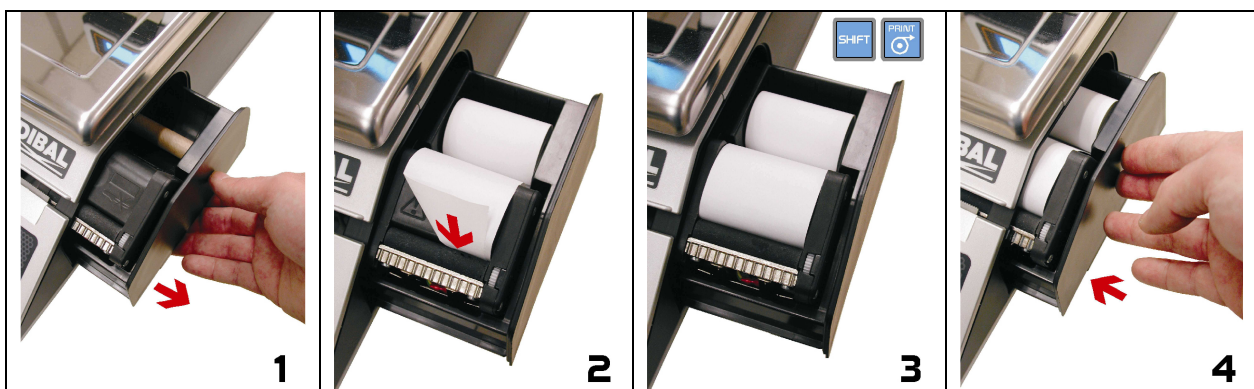
15.5.2. Changing paper in the labelling machine

15.5.2.1. Flat Model

Scale 500 Range Model **Flat** can operate with continuous paper, adhesive labels or continuous adhesive paper.

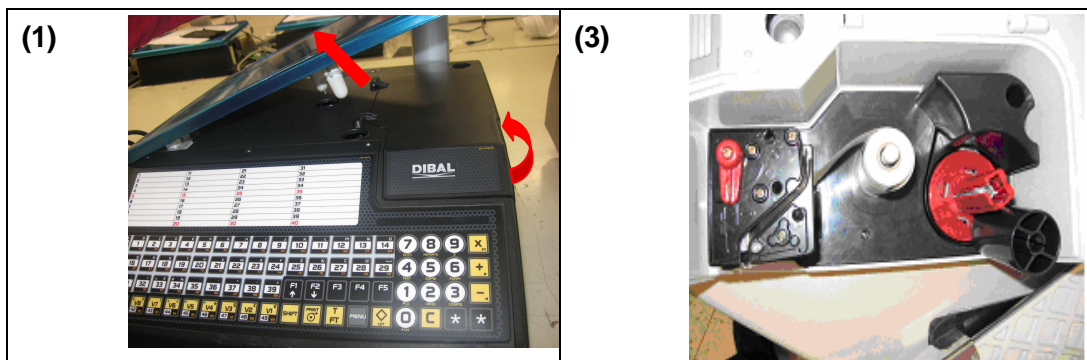
A) To replace continuous paper (only ticket):

1. Open the printer and releasing on the right side. Remove the spent roll.
2. Fit the new roll as shown in the photo. Ensure that the heat-sensitive side of the paper is in contact with the head (if not, receipts will come out blank).
3. Press Shift  and print  in order to place the receipt paper properly.
4. Finally, Close the printer



B) To replace continuous paper (ticket and label models):

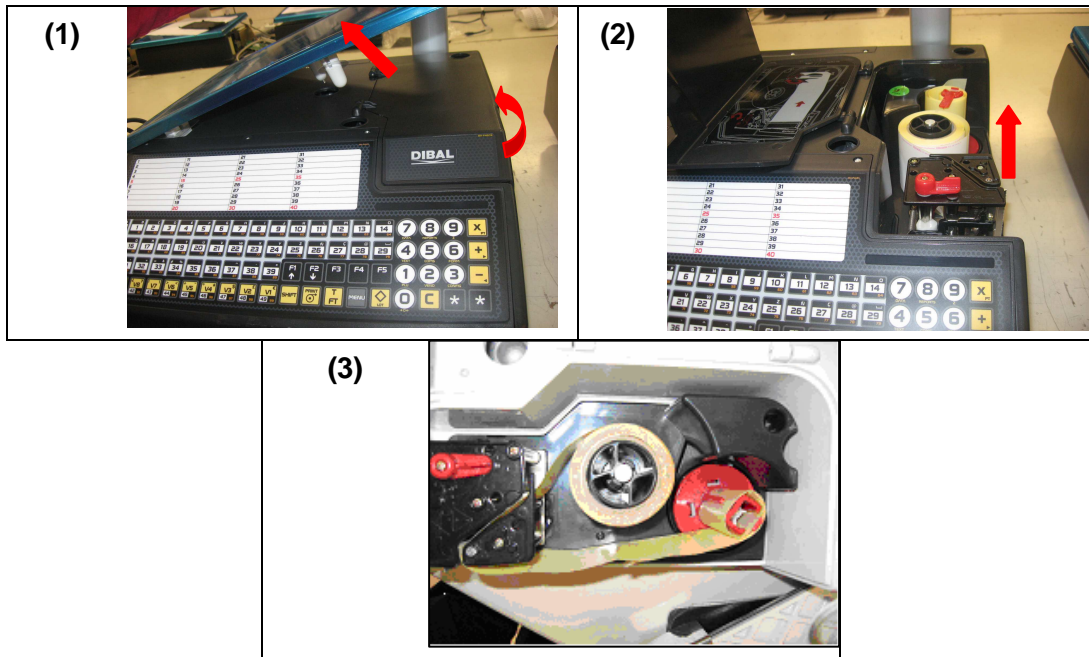
- Remove the weighing platform by lifting it from the right as per point 1 above.
- Open the printer and release the paper from the head by working the lock. Remove the spent roll.
- Fit the new roll as shown in the photo. Ensure that the heat-sensitive side of the paper is in contact with the head (if not, receipts will come out blank).
- Close the printer and fit the weighing platform, reversing the steps in point 1.



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C) To replace adhesive paper (Labels):

1. Remove the weighing platform by lifting it from the right as described above.
2. Open the printer and release the paper from the head by working the lock. Remove the spent roll.
3. Fit the new roll as shown in the photo. Ensure that the heat-sensitive side of the paper is in contact with the head (if not, receipts will come out blank).
4. Close the printer and fit the weighing platform, reversing the steps in point 1.



15.5.2.2. Double Body Model

The scale is fitted with a cartridge system to facilitate the job of changing the paper in the labelling 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 green 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. You then place the top on the cartridge and close the two levers This part is not necessary in the case of some label formats.
6. The cartridge looks like that in the photograph.
7. Last of all, place the cartridge in the scale and turn the lever on the right clockwise.



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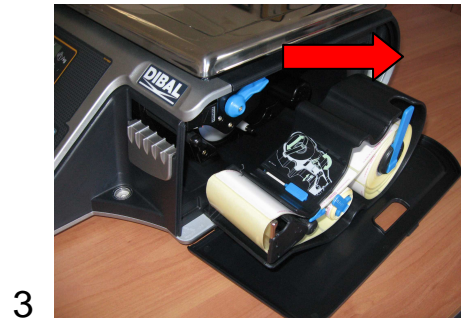
15.5.2.3. Flat Star model

The scale is fitted with a cartridge system to facilitate the job of changing the paper in the labelling machine.

1. Open the right hand side drawer of the machine
2. You will then see three blue levers. Turn the lever on the top 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. Proceed to change paper as in the previous section (images 4,5,6).
5. Last of all, place the cartridge in the scale and turn the lever on the top clockwise.



15.5.2.4. Hanging Model

A) To replace continuous paper:

1. Open the cover of the printer. Remove the spent roll.
2. Fit the new roll as shown in the photo. Ensure that the heat-sensitive side of the paper is in contact with the head (if not, receipts will come out blank).
3. Press Shift  and print  in order to place the receipt paper properly.
4. Finally, Close the printer

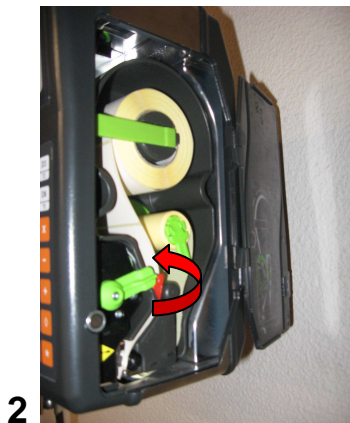


B) To replace adhesive paper :

1. Open the cover of the machine.
2. You will then see three blue levers. Turn the lever on the bottom 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. You then place the top on the cartridge and close the two levers. This part is not necessary in the case of some label formats.
6. The cartridge looks like that in the photograph.
7. Last of all, place the cartridge in the scale and turn the lever on the bottom clockwise.



USER'S MANUAL



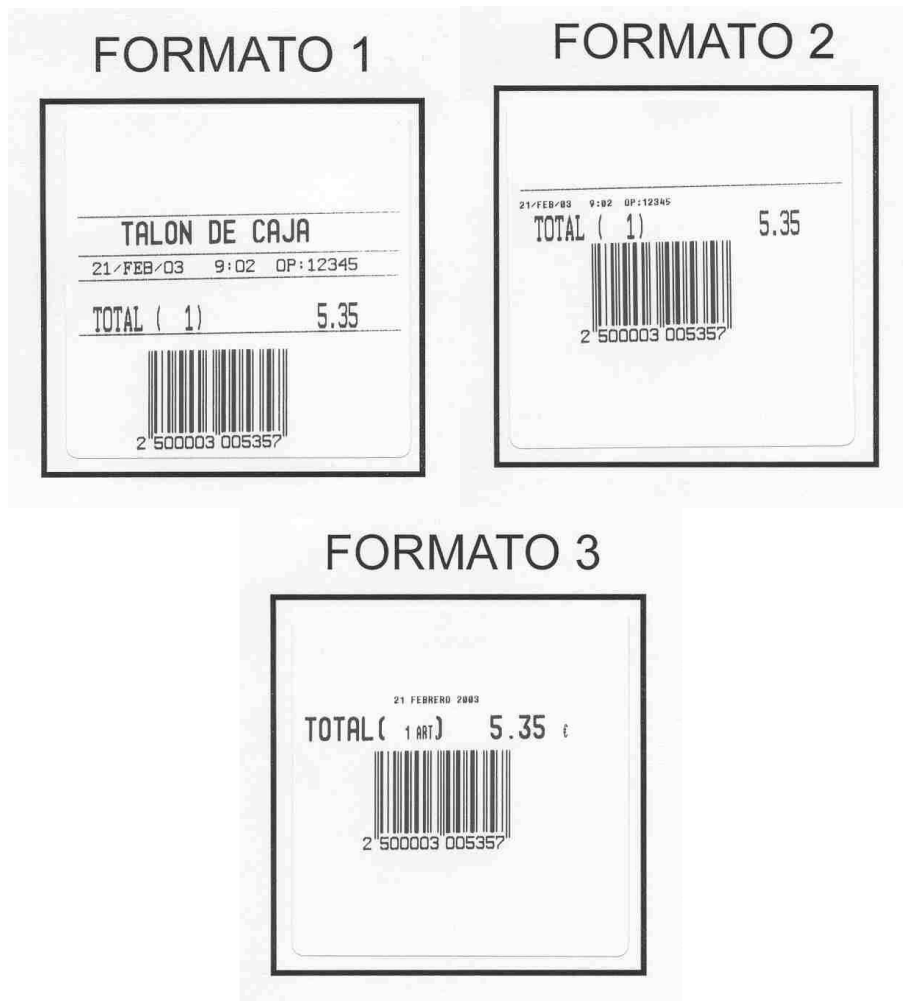
Table with the different label format size.

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

15.6.2. 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	VOUCHERFORMATS
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 y 20	1 (60x60mm)
13, 14, 15, 16, 18, 19	2 (60x40mm)
17	3 (60x40mm)
21 to 60	programmable



15.7. KEYBOARDS


15.7.1. Formats

The keyboards differ according to the model of the scale. Therefore, the arrangement of the keys varies. Below is an illustration of the keyboards of the different models.



							
		S-540		S-545		S-547	
		Keys	Vendors	Keys	Vendors	Keys	Vendors
Flat Receipt		-	-	75	20	--	--
Pole Receipt		-	-	135	20	-	-
Hanging ABS		105	20	105	20	105	20
Hanging Stainless Steel		105	20	105	20	105	20
Double Body		105	20	140	20	105	20


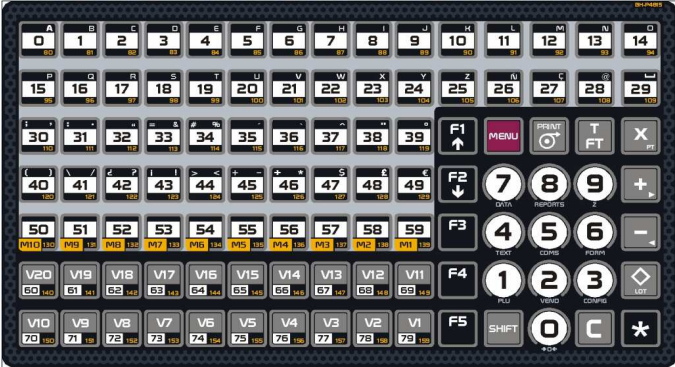
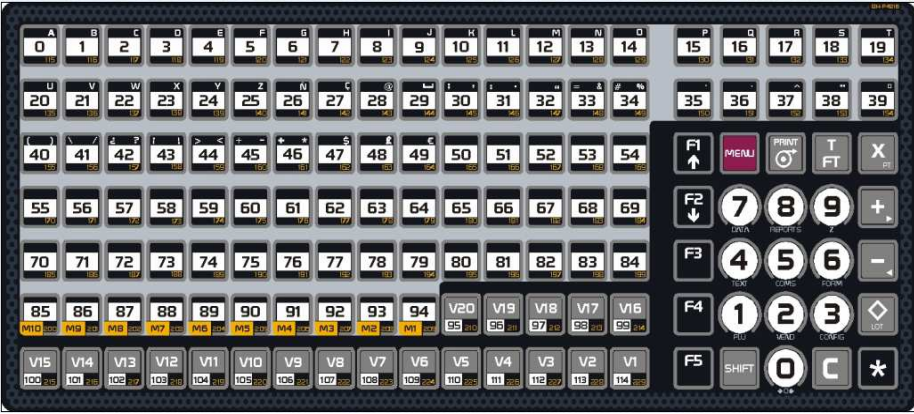
15.7.2. Key Options

Depending on the scale's model there are different key options.


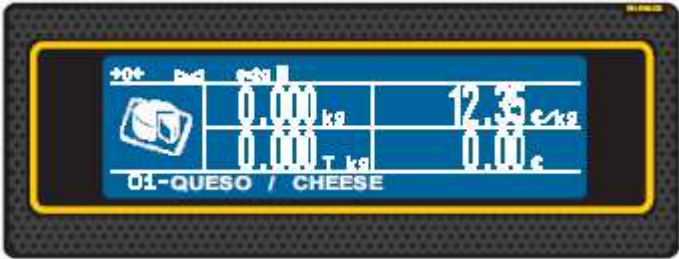
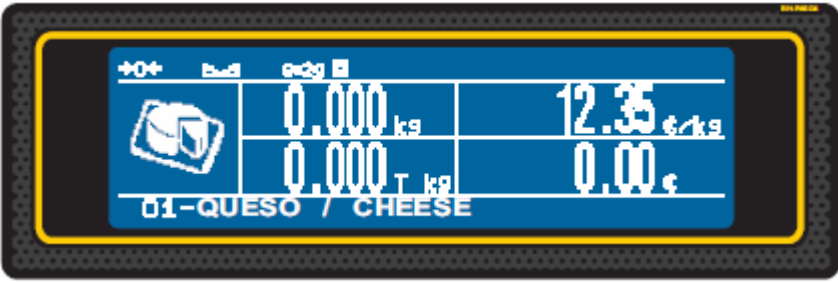
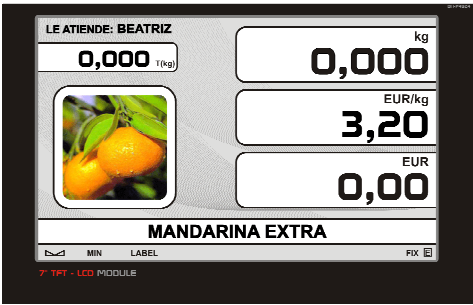
				
		S-540	S-545	S-457
Assisted*		105	75 - 135 - 105 - 140	105
Self service		--	100 - 150 - 208	--

* The Number of keys is different depending on the model see Section 14.7.1. Formats

 STAR		Flat Receipt	Pole Receipt
75 Keys	20 Vendors (S-545)		135 Keys

 STAR		Hanging ABS / Hanging Stainless Steel / Double Body	
105 Keys	20 Vendors (S-540, S-545 and S-547)		
140 Keys	20 Vendors (S-545)		

According to the scale model. There are different options and display characteristics.

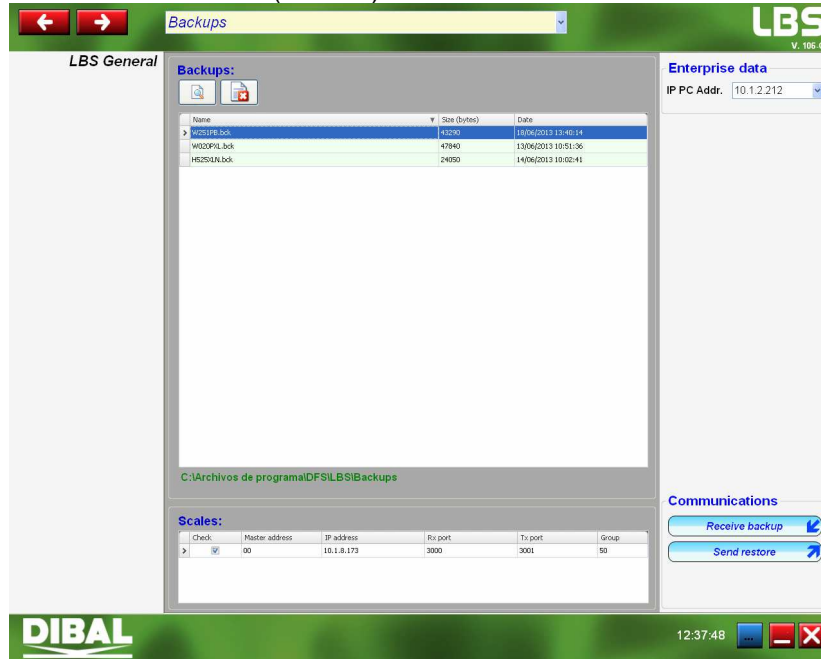
Display		
K Superlux	All models Of the series Star	
Blue L	All models Of the series Star	
Blue XXL	All models Of the series Star	
TFT Colour	Only for double-body models of the series Star	

16.BACK-UP AND RESTORE (LBS)

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 it has failed (Restore).



16.1. BACKUP COPY

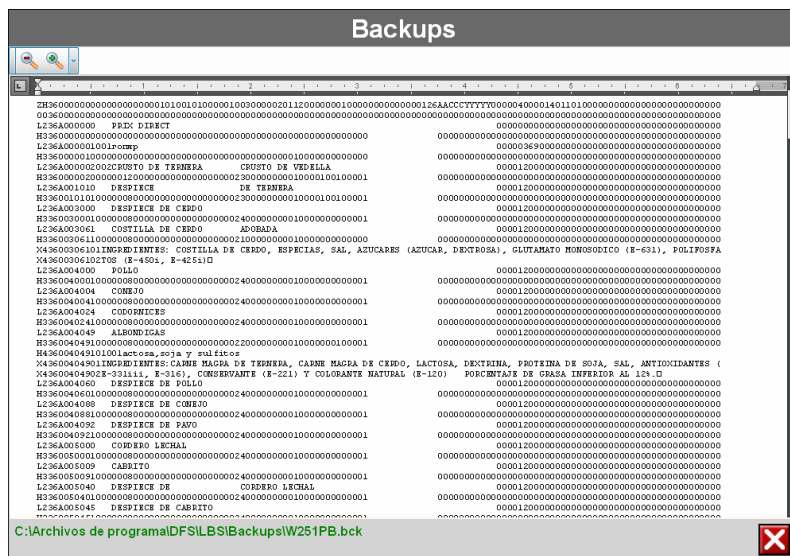
In order to make a backup copy of a scale, enter its IP address and then click on



The scale must be in LBS MODE (menu 5 3 5 of the scale). Otherwise it will display error and fail to make any backup copy.

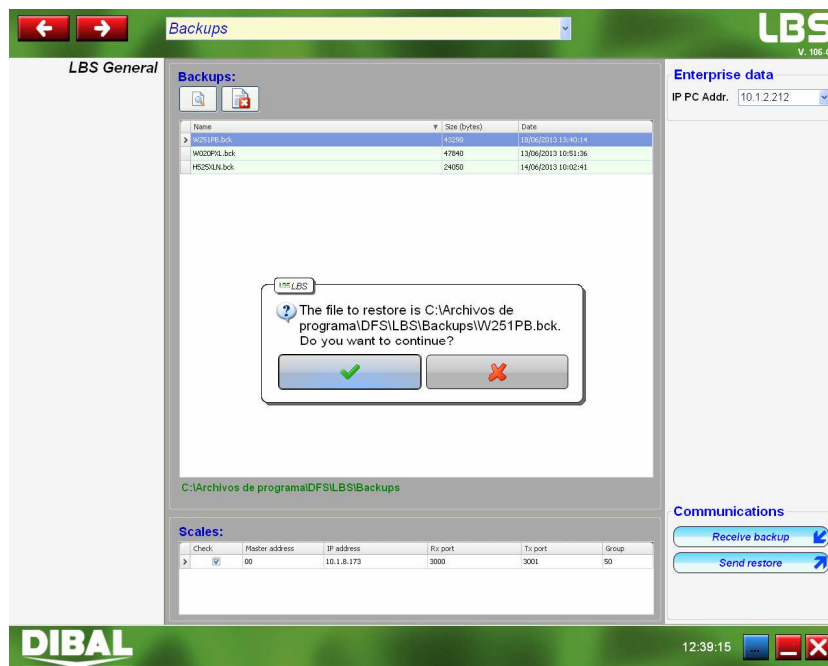
Once the program has finished making the backup copy, it will be automatically saved in the following route: C:\Archivos de programa\DFS\LBS\Backups

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



16.2. RESTORE FILE (RESTORE)

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



in order not to restore it.

17.BLUE GRAPHIC DISPLAY

17.1. INTRODUCTION

This is a backlighted matrix graphic display with blue background and white dots with a resolution of 240 x 64 pixels.

The general management of the scale is exactly the same as the version with alphanumeric display. The graphic interface is a "Shell" which aim is being more friendly and easier to handle the scale.

17.2. WEIGHT SCREEN

There are several selectable weight screens. Some have more elements than others (with or without tare, one or two lines of PLU Name, with or without vendors indicators...):



List icons of the weight screen:

- ☐ Empty battery
- Low Battery
- ☑ With sufficient battery power
- ☑ Full battery
- +0+ Zero weight
- ☑ Stable weight
- MIN Minimum weight
- NET Net weight (no tare)
- +PC PC Connection
- ✗ No connection to the PC
- ↔ Connect with other scales
- e=2g Current step indicator
- Ⓜ Slave indicator scale
- Ⓜ Master indicator scale
- 🔒 Item locked (Weight, Price, Tare)
- 🏷 Scale in Label mode
- 🎫 Scale in Ticket mode
- Ⓜ SHIFT key pressed
- 📄 No paper
- 👤 There are memorizations of vendors
- 📉 Discount in line mode
- 📉 Mode decrease in price
- 📈 Mode price increase
- 📈 Multiplication Mode
- ✉ Indicator of unread SMS messages

17.2.1. Weight screen formats

There are these weight display formats that are activated by the keyboard shortcut: Shift, F4 long (wait until the second beep).

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17.2.1.1. Format 1

Complete weight classic screen with logo section and optional analogue clock.



17.2.1.2. Format 2

Complete weight classic screen with vendors and subtotal indicator.



17.2.1.3. Format 3

"Retro" Weight Screen with simulated needle weight indicator, without tare, without vendors icons (with open tickets icon) and with subtotal indicator.



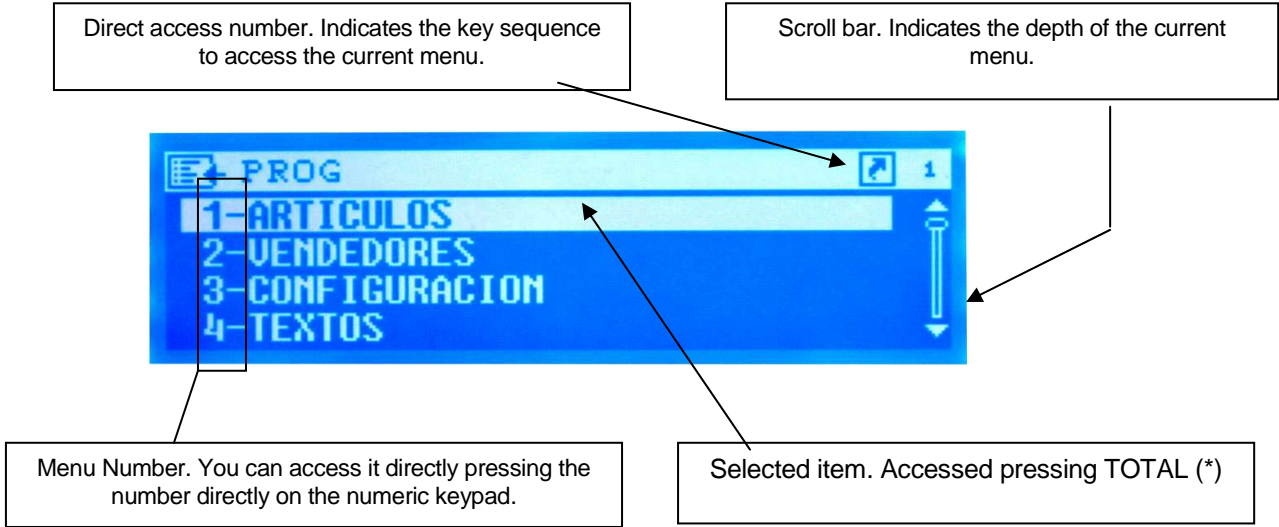
17.2.1.4. Format 4

Weight screen with big digits, without tare and without vendors.

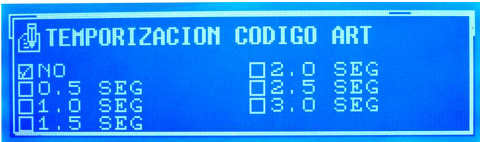
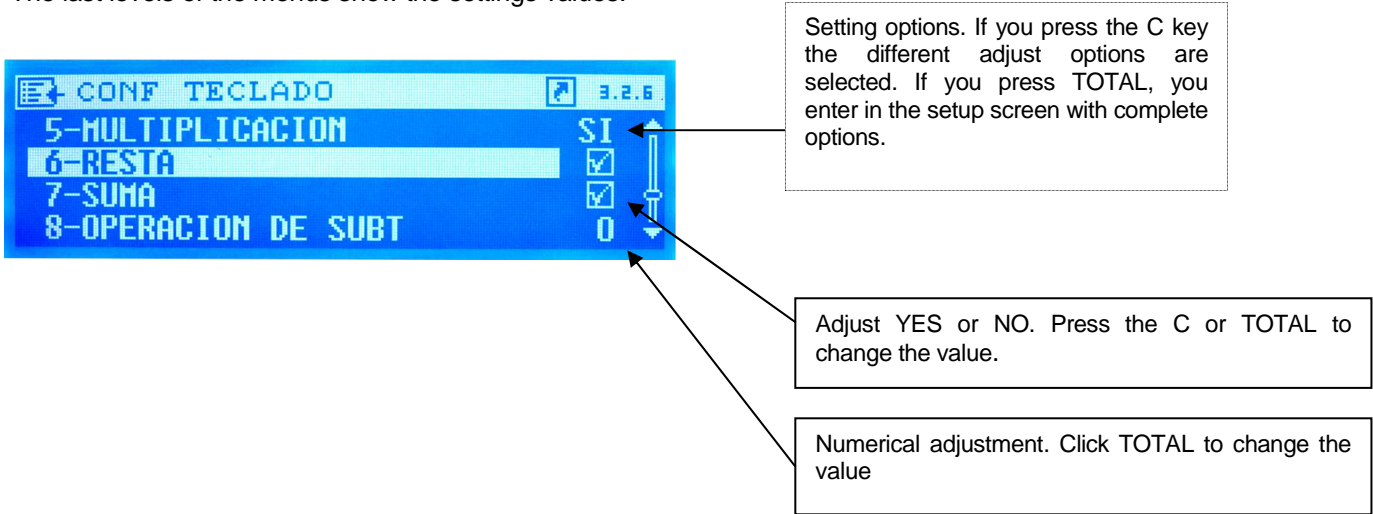


17.3. MENUS

The menus are implemented with a tree structure, being able to low levels pressing the key TOTAL or the menu associated number, and level up pressing MENU. Press the MENU button for 2 seconds and you exit the menu mode directly.



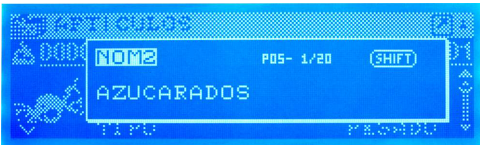
The last levels of the menus show the settings values:



Complete options adjust screen. Press C to change the value and TOTAL to accept



Numeric adjust screen. Shows the minimum, maximum and default



Adjust text display

17.4. ITEM DETAILS

Once entered the code number item, you access to the saved item detail (if it existed) or a new item detail (if it did not exist):

Code, name and PLU

Logo associated section.

Item fields with their values. The values can be directly edited.

Icon Article Type:

- Weight
- Unit
- Fix weight
- Return
- Percentage Tare

17.5. VENDORS

In the register screen you can only register vendors and you can only edit the vendors that are not registered yet. To change the values of a registered vendor you must remove first and the register it again. The registration and remove screens are similar.

Selected vendor

Code and vendor name.

List of potential vendors. The vendors without icon are free to be registered. Those that have an icon are already registered:

- Normal registration
- Locked
- In training mode
- Order mode

17.6. LABEL FORMAT EDITION



Enter the desired format.

A screenshot of the 'PROG FORM ETI' screen showing a list of fields on the left and settings on the right. The fields list includes: '012 NOMBRE PLU', '010 DEPART', '003 PESO', '006 PRECIO', and '001 C. BARRAS'. The settings on the right include: 'X- 10', 'Y- 100', 'ROT- 0', and 'TL- 3'. At the bottom right, it says '12X17 H4X4'. A vertical double-headed arrow is next to the fields list. Three callout boxes are present: one pointing to the fields list with the text 'The Fields List that compose the label. Select them using the + and -'; one pointing to the 'ROT- 0' setting with the text 'Selected settings field'; and one pointing to the 'TL- 3' setting with the text 'Indicator of the selected font.'

17.7. TOTAL SCREENS







The sales operation is exactly the same as the alphanumeric version.

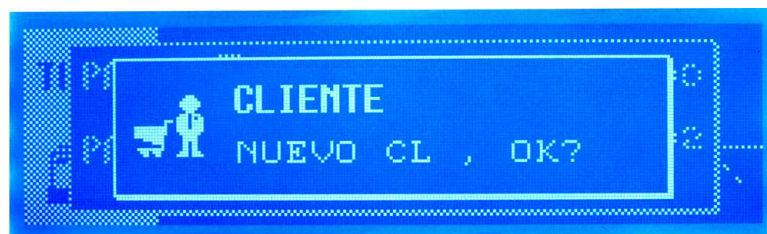
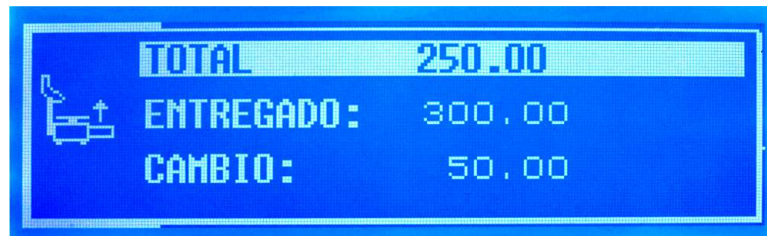
A screenshot of a terminal window titled 'TOT VENDEDOR ?'. Below the title, 'DOS MODOS DE PAGO' is displayed and highlighted with a white box. A callout box points to this box with the text 'Current payment mode.'

A screenshot of a terminal window titled 'TOTAL'. It shows 'ARTICULOS 2' and 'U1: 00000' on the top line, and 'TOTAL 2.26' on the bottom line. There are icons on the left and right sides. Two callout boxes are present: one pointing to 'ARTICULOS 2' with the text 'Articles and vendor Number'; and one pointing to the right-side icon with the text 'Change-delivered indicador activated'.

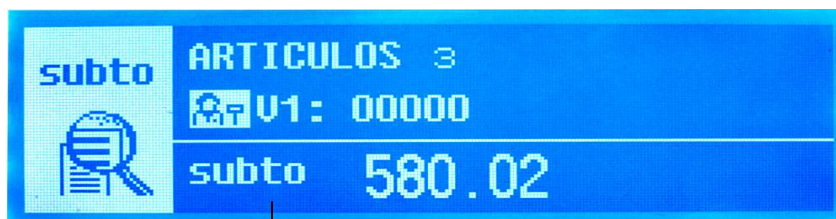
USER'S MANUAL

Selected payment mode Icons:

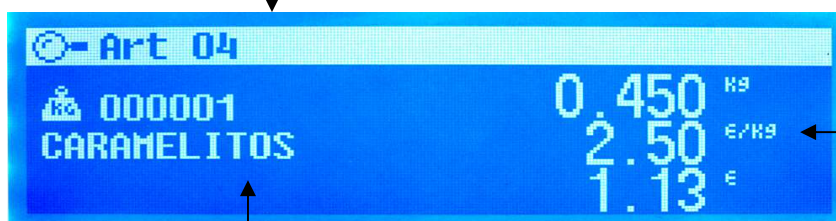
-  Cash
-  Cheque
-  Card
-  Account
-  Others
-  Programmable



17.8. SUBTOTAL SCREENS

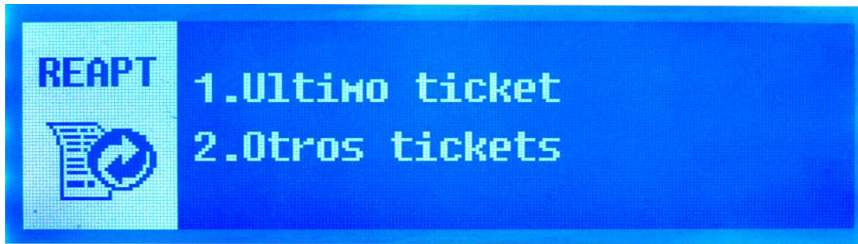


Use the + and



Weight, price and amount of the line.

Type icon, code and reviewed item name.



Tickets reopening menu.

17.9. NEW DISPLAY SETUP MENU

There is a new menu to set the new parameters of the graphic display. You access pressing MENU-> 3 ->8.

17.9.1. Display Standby [3][8][1]

Weight screen in standby.

17.9.2. Logo initialization [3][8][2]

The logo which appears in the weight screen.

17.9.3. Display load [3][8][3]

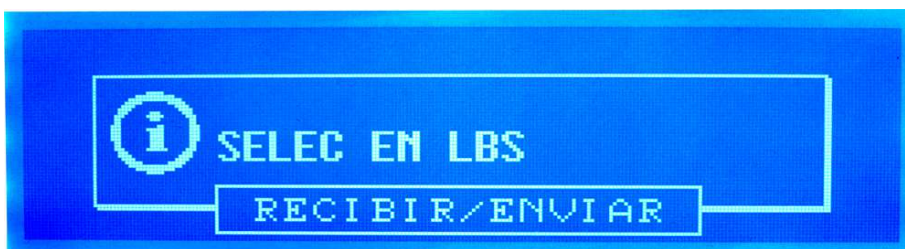
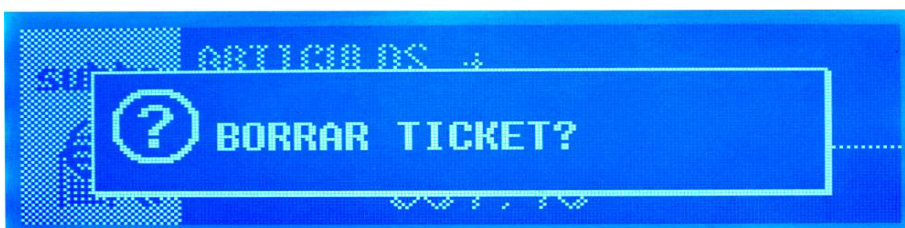
We can introduce the different formats of screens weight.

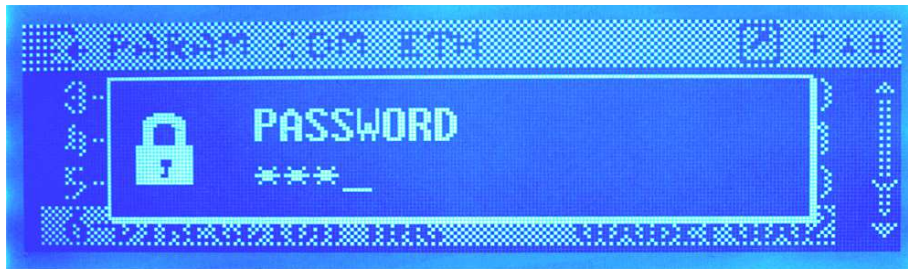
17.9.4. Clock section logo [3][8][4]

We can introduce the clock instead the logo in the weight screens.






17.10. WARNING SCREENS

During the scale operative can appear warning screens:





The icons indicate the level of importance or the type of window:

-  Warning. Indicates that an action is required or that you should pay attention to something.
-  Error. An error occurred during the operation.
-  Information. These are informative messages.
-  Question. It asks for an answer to an event.
-  Password. It is necessary to introduce a password to continue.

17.11. STANBY SCREEN

Besides the advertisement, there is now a standby screen that is activated when there is no activity in the machine for a while.

The inactivity time is configurable from the new menu MENU → Settings → Display Setup → Sleep Time. (3.8.1).

The display shows an analog clock and the date and time in digital.



18. APPENDIX ON BATTERIES

Comparison between models with batteries and models without battery:

	MODELS WITHOUT BATTERY		MODELS WITH BATTERY	
	Reference	Characteristics	Reference	Characteristics
Power Source	4519006600 (MHFADIB6)	Without battery charger	451100110000 (MHKFABAT1)	It includes a battery charger
Printer interface	4509012300	For DIBAL printer	4509013000	For EPSON printer
Printing Unit	49-1757	24V	105	EPSON 7,5 V
Batteries	----	It does not have any	FG2072112VFIAMM ó FGH20502FIAMM	1 x 12V / 7,2Ah ó 1 x 12V / 5Ah
Connection to electrical supply	----	Cable	----	Cable without switch
Switches	1	Power switch	1	20

! When the scale is connected to the electricity supply, regardless of whether it is switched on or off, the battery is charging.

! **WARNING:**

In order to charge the battery, the scales with internal battery remain connected to the electricity supply even though the switch is off. Disconnect the cable of the mains supply of the scale from the electrical socket if the scale needs to be opened or manipulated.

18.1. RECOMMENDATIONS FOR SCALES WITH BATTERIES

The performance of the batteries depends on a number of factors, including the configuration of the backlighting and operation. **Switch off backlighting to increase battery life.**

New batteries or batteries that have been stored for long periods of time may need a longer time to charge.

Over a long period of time, batteries gradually lose their capacity to charge and need longer times to recharge. This is normal. If you charge the battery on a regular basis and you notice that the working period is decreasing or charging time is longer, you will probably need to buy a new battery.

! **Avoid charging the batteries in conditions when there is little air.**

! **Keep the battery at room temperature** or at a similar temperature **when charging.**

! **Never expose batteries to temperatures below -10°C or above 45°C.**

! **Do not use a damaged charger or battery.**

! **Do not throw the batteries into fire.**

! **Do not short circuit a battery.** A short circuit may be caused accidentally when a metallic object (coin, clip or pen) creates a direct connection between the + and – poles of the battery (battery's metal strips). Making a short circuit with the poles could damage the battery or the object which is connected, and **could give rise to a fire.**

! **Dispose of the batteries according to local regulations** (for example, in relation to recycling). **Do not dispose of batteries with domestic rubbish.**

! **In the case of an external battery, make sure that it is 12V and check the polarity.**

18.2. WORKING MODES OF THE 500 SERIES BATTERY

Depending on whether the scale is connected to the electricity supply source or not, regardless of whether it is switched on or not, or during operation, the scale is in one of the following states:

- '0' – cable disconnected, with the scale switched off: it is not being charged.
- '1' - cable connected, with the scale switched off: it is being charged
- '2' - cable disconnected, with the scale switched on: battery fed, it is being used up.
- '3' - cable connected, with the scale switched on: mains supply, it is being charged.

18.3. BATTERY CONTROL PARAMETERS

The 500 RANGE battery models offer a parameter (**BATTERY CONTROL**) which allows you to select consumption mode in which the battery will operate.

There are three possible values for this parameter:

- 0:** Operation with no saving in consumption.
- 1:** Operation with average savings in consumption.
- 2:** Operation with maximum savings in consumption.

By default, the battery control parameter of the battery models of scale is set to 1. If the scale is not a battery model, this parameter does not exist.

18.4. OPERATION DEPENDING ON THE BATTERY CONTROL PARAMETER VALUE

18.4.1. Battery control to 0 (default mode)

There is no saving in battery. The scale consumes the same as a scale operating without batteries.

18.4.2. Battery control to 1(default mode)

There is average saving in battery.

The **Backlight** operates in timer mode, with a NON-MODIFIABLE timing of 10 seconds, in such a way that, if there are no variations in the weight on the tray or in key pressing in this period of time, the backlight switches off.

The **RS-232 and USB Interfaces** deactivate their power supply circuits. There is no serial communication.

18.4.3. Battery control to 2

There is maximum savings in battery life.

The **Backlight** switches off and cannot switch itself on.


The **Ethernet Controller** disables itself and there are no Ethernet connections or communication to M/S or PC.


The **RS-232 and USB Interfaces** disable their power supply circuits. There is no serial communication.

18.5. MESSAGES AND INDICATORS IN BATTERY-RUN SCALE

18.5.1. Messages and indicator of battery load

When operating, the battery scale shows its status in relation to the battery through:

1. **Messages:** which appear on the display to indicate status, changes in status, alarms, etc.
2. **Battery load indicator:** battery icon on the display made up of segments. The segments are: a **contour icon in the shape of a battery containing 3 segments** to indicate the load level. 

 The alarm messages display on the weighing screen only when it is in operation mode 2. (Cable disconnected, scale on)







The battery indicator only displays on the weighing screen and disappears from all others. (Menus and submenus, total cashier, discount on total, two forms of payment, etc.)



The battery-related messages that display on booting up the scale appear following the countdown and will display for a few seconds the percentage of battery life in the following way:


“**BATTERIE X%**” where **X** is the battery level in %.

18.5.2. Messages and indicator depending on operation status


In the following table, we can see the different charge status that are shown on the screen, depending on the segments, either the one which looks like a battery or the three little lines.

INDICATIONS OF BATTERY LEVEL			
LEVEL	BATTERY CHARGE	ICON	ONLY BATTERY
100	Charge >= 100%	Contour of battery icon	Fixed 3 (optional blinking) 
		Segments	
90	100% > Charge >= 90%	Contour of battery icon	ON 3 segments ON 
		Segments	
60	90% > Charge >= 60%	Contour of battery icon	ON 2 segments ON 
		Segments	
30	60% > Charge >= 30%	Contour of battery icon	ON 1 segment ON 
		Segments	
10	30% > Charge >= 10%	Contour of battery icon	ON All segments OFF 
		Segments	
0	Charge < 10 %	Contour of battery icon	Blinking All segments OFF 
		Segments	

With the mains cable connected. The battery-shaped contour icon is switched on and the 3 segments display a scan (  ).

 When the load is less than 30%, a **BATTERY LOW** alarm message displays. (Flashing for several seconds)

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 When the load is below 10%, a **BATTERY VERY LOW** alarm message displays. (Flashing for several seconds)

18.5.3. Messages in operating mode changes

These messages flash for several seconds when the change from one status to another is detected.


When the scale is booted in battery mode only and when it is switched from mains to battery only the percentage of battery life remaining in the scale, the "**BATTERY X%**" message, displays on the weighing and operation screen.

When the scale is booted with the cable connected to the mains and when it is switched from battery mode only to the mains, the "MAINS" message displays on the weighing and operation screen.

18.6. ANTI BLACK-OUT BATTERY

The Gama 500 of scales has an option of a safety system with a battery for power cuts (anti black-out).



In the event of a power cut, the battery allows the scale to work temporarily until power has been restored.

Battery charge indicators are the same as the indicators on the models with long-life batteries, except in the case of scales with graphic display, in which the electrically powered indicator uses the  icon.

If you want to connect an external battery to the scales with the anti black-out battery, it must be a 24 VDC battery.

18.7. OPERATION WITH EXTERNAL BATTERY

- Messages
 - The scale shows the type of power:
 - BATTERY
- Battery load indicator:
 - Not shows any indication of battery.

 In models with extended battery, external battery must be of 12VDC.
 In models with Anti-Blackout battery, external battery must be of 24VDC.

19.EAN/CODE 128 APPENDIX


19.1. PROGRAMMING

To select the origin of the EAN-128, the EAN128 "Format" setting must be programmed (**Menu 3.6.8**) to one of the following values:

- **0**: the Global EAN will be printed.
- **1**: the section EAN will be printed.
- **2**: the article EAN will be printed.

If a Section **EAN** or an **article EAN** is selected and they are not programmed, the Global **EAN** will be printed.

If the Global EAN is not programmed, nothing will be printed.

 To be able to print an EAN/CODE 128 the label field 54 must be added. You can then have an EAN/CODE 128 and an EAN13 on the same label at the same time.

19.2. PROGRAMMING THE GLOBAL EAN/CODE

It is found in menu **7.1.8.11** (DATA -> DATA -> PROGRAMMABLE EAN -> EAN128 GL FORM).

A total space of 128 characters is available.

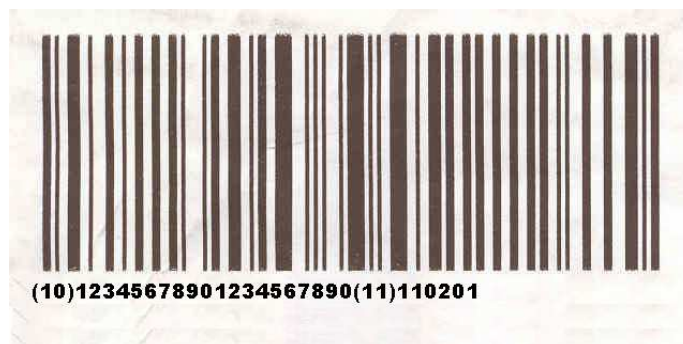
19.3. PROGRAMMING THE SECTION EAN/CODE

It can be found in Menu **4.3** (TEXTS -> SECTIONS). Press **X** until you access the EAN128 field of each section. Press any editing key (numbers or letters, arrows) to access the EAN/CODE 128 editor.

An EAN128 has the following structure:

START + FNC1 + AI → DATA + AI → DATA +

EXAMPLE OF EAN 128:



This barcode was programmed as follows:

START B + FNC1 + AI + DATA + AI + DATA
(\diamond + 2) + (\diamond + 7) + (10) + (12345678901234567890) + (11) + (110201)

In this example, the machine batch number is 12345678901234567890. If the batch number has less than 20 characters, the FNC 1 character must be entered at the end of the field.

(\diamond + 2) + (\diamond + 7) + (10) + (1234567890 + (\diamond + 7)) + (11) + (110201)

If the batch number contains letters as well as numbers, the EAN 128 must be edited so that it occupies the least possible space.

If, for example, the batch number is: ABCD1234

In this case the best form of programming would be:

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(0 + 2) + (0 + 7) + (10) + (ABCD + (0 + 6) + 1234 + (0 + 7)) + (11) + (110201)

In this case, the EAN 128 is commenced with a set of B characters because there are capital letters in the data (set A could also be used at the beginning). As there are digits after the letters, and there are an even number of digits, set C is then used.

It is possible to start with the A set. As there are digits after the letters, and there are an even number of digits, set C is then used.

There is a total space of 48 characters for each section.

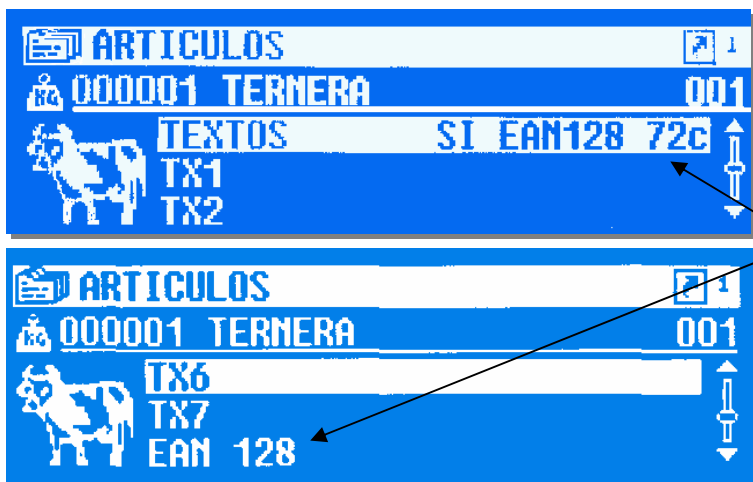
19.4. PROGRAMMING THE ARTICLE EAN/CODE

It can be found in **MENU 1** (ARTICLES) in the article data sheet.

Press any editing key (numbers or letters, arrows...) to access the EAN/CODE 128 editor.

The EAN/CODE 128 will use the space of Texts 8, 9 and 10 as specified in the TEXTS YES/NO field:

- **NO:** There will be no article texts, so there will be no EAN/CODE 128.
- **YES:** there are article texts but there is no EAN/CODE 128 in them. There are up to 10 article texts
- **YES EAN128 24c:** There is an EAN128 with 24 characters and 9 article Texts.
- **YES EAN128 48c:** There is an EAN128 with 48 characters and 8 article Texts.
- **YES EAN128 72c:** There is an EAN128 with 72 characters and 7 article Texts.



Depending on the value selected, more or fewer article Texts will display as available. A 24-character EAN prevents the use of Text 10.

A 48-character EAN prevents the use of Texts 9 and 10.

A 72-character EAN prevents the use of texts 8, 9 and 10.

19.5. PROGRAMMING OF THE EAN/CODE 128 IN THE TOTAL RECEIPT

In order to print an EAN/CODE 128 on the total receipt, you need to program a receipt format **MENU 6 1 1** which allows you to modify the parameters (format 2 or 3) and set the "bar code field to 2".

- 0: It prints an EAN 8.
- 1: It prints an EAN 13.
- 2: It prints an EAN/CODE 128.

19.6. EAN/CODE 128 EDITOR

The editor automatically detects if an EAN or a CODE 128 is being programmed depending on the control characters that are being used.

The total available space varies depending on the type of EAN/CODE that is being programmed, section or article).

The set of characters **A** allows block capitals and numbers.

The set of **characters B** allows block capitals and lower-case letters and numbers.

The set of **characters C** only allows numbers and these must **ALWAYS be even**. It is up to the user to make sure that the set of characters C includes an EVEN number of characters or the format will not be correct.

Editing keys:

- **+ , - , F1 and F2**: Cursor. It moves forward and back along the edit chain. In the case of keys + and -, a keystroke of over 1 second takes the cursor to the end of the edit chain.
- **X**: If an EAN is being programmed it will move the cursor to the beginning of the next AI detected. For this key to work, the EAN format programmed must be correct.
- **MENU**: to quit the editor WITHOUT accepting changes.
- ***(Total)**: to quit the editor after accepting changes.
- **PRINT**: It prints a programming help list. If you press this key for over 1 second, a list of the AIs implemented and the possible replacement letters will be printed.
- **⏏ (Subtotal)**: It inserts a control character. After pressing this key, you have two seconds to press one of the following numeric keys:
 - **1**: Inserts character START A.
 - **2**: Inserts character START B.
 - **3**: Inserts character START C.
 - **4**: Inserts character CHANGE A.
 - **5**: Inserts character CHANGE B.
 - **6**: Inserts character CHANGE C.
 - **7**: Inserts character FCN1.
 - **8**: Inserts character STOP.

Edition Rules:

- For a CODE/EAN 128 to be detected as correct, it must contain one of the START characters as the first character.

- For an EAN128 to be valid, it must contain a FCN1 character after the START character.

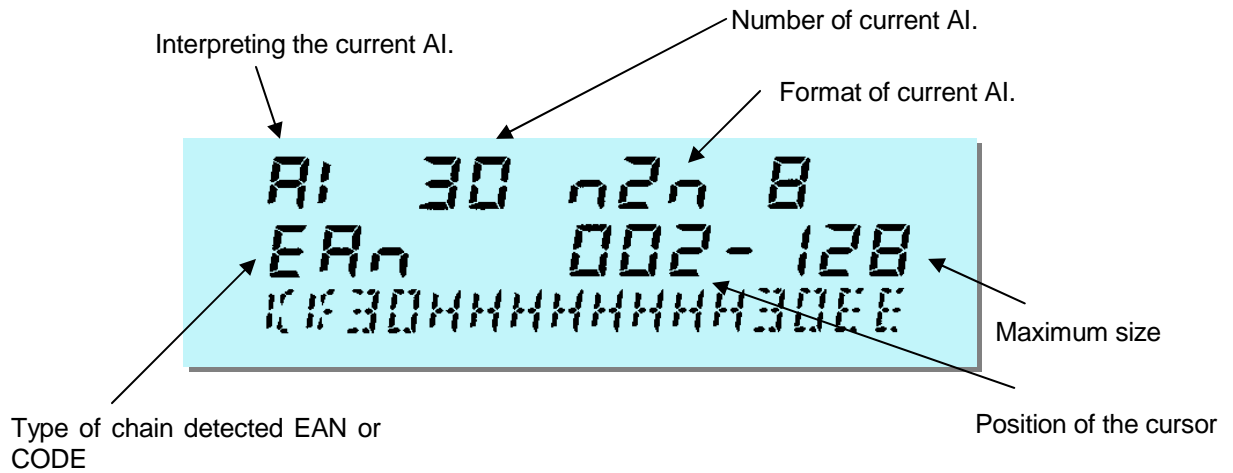
- If there are no FCN1 characters, it will be considered a CODE 128 and there will be no detection of AIs.

- Detection of AIs will only be possible if the standards of EAN128 format and size of the data of each AI programmed are observed.

- Although AIs are not detected or the format is detected as erroneous, the chain can be recorded and used, but it does not ensure that the resulting barcode or the format will be accepted by the scanner and it is possible that no barcode is printed.

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Alphanumeric Display



Control characters:



START characters



CHANGE characters

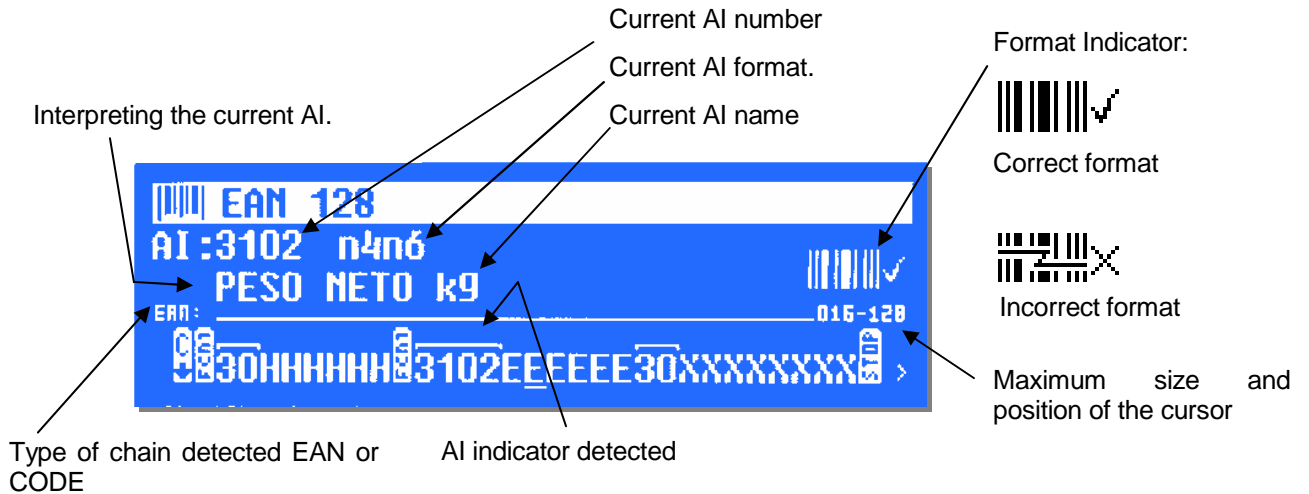


FCN1 character



STOP character

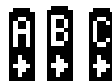
Graphic Display



Control characters:



START characters



CHANGE characters



FCN1 character



STOP character

19.7. INTERPRETING APPLICATION IDENTIFIERS (AI)

AI is a number representing the application identifier (field on the barcode), that is, specifying the data to be represented in the EAN128.

If an IA is recognised in the cursor position, the format number recognised, the AI field name (only on graphic screen) and the format that the field must meet will be specified.

The formats can be numeric or alphanumeric and can be of fixed or variable length:

The indicators can be:

n: indicating a number of NUMERIC characters.

a: indicating a number of ALPHANUMERIC characters.

. : the point before the number indicates that it is a variable length field.

The format has two pairs of letters and numbers. The first pair indicates the number and type of characters of the AI part. And the second pair indicates the number and type of characters of the data part.

Examples:

n2n6: It is an AI with 2 AI numbers and 6 Data numbers.

Example: **17121212**. AI 12 DATA 121212

n2a.20: It is an AI with 2 AI numbers and up to 20 Data numbers or letters.

E.g.: **10000000129873ABC** (Fcn1). AI 10 DATOS 000000129873ABC (Fcn1)

In this case, only 15 of the 20 possible characters have been used. This is possible as the field is of variable length (as indicated by the point before the 20).

These fields must end with a FCN1 provided that all the characters of the format (20 in this case) are not used.

n4n6: It is an AI with 4 AI numbers and 6 Data numbers.

E.g.: **3103HHHHHH**. AI 3103 DATA HHHHHH.

Even though it is a numeric field, you can use the replacement letters which will be substituted by numbers during printing. In this case, H = Weight.

See AI tables recognised by the scale and possible replacement letters.

Replacement letters:

Letter	Representation	Letter	Representation	Letter	Representation
A	Group Number	F	Sum sign	N	Team no.
B	Receipt Number	G	No. of articles	T	Label no.
C	Item Code	H	Weight	X	Price.
D	Employee Code	I	VAT type	Y	Total secondary Currency
E	Sum Total for Receipt	K	Section		

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Table of recognised AIs:

IA	CONTENTS	FORMAT
00	Series Code from Dispatch Depart.	n2+n18
01	EAN item number / Issue Dept. Code	n2+n14
02	EAN item number of products contained in another dept.	n2+n14
10	Batch or consignment number	n2+an..20
11 (a)	Date of manufacture (YYMMDD)	n2+n6
13 (a)	Date packed (YYMMDD)	n2+n6
15 (a)	Minimum expiry date (YYMMDD)	n2+n6
17 (a)	Maximum expiry date (YYMMDD)	n2+n6
20	Product variety	n2+n2
21	Number of series	n2+an..20
22	HIBCC – quantity, date, batch and connection	n2+an..29
23 (b)	Consignment number (temporary use)	n3+n..19
30	Variable quantity	n2+n..8
310 (c)	Net weight in kilograms	n4+n6
311 (c)	Length or first measurement in metres (commercial)	n4+n6
312 (c)	Width, diameter or second measurement in metres (commercial)	n4+n6
313 (c)	Depth, Thickness, Height or third measurement in metres (commercial)	n4+n6
314 (c)	Area in square metres (Commercial)	n4+n6
315 (c)	Net volume in litres	n4+n6
316 (c)	Net volume in cubic metres	n4+n6
320 (c)	Net weight in pounds	n4+n6
330 (c)	Net weight in kilograms	n4+n6
331 (c)	Length or first measurement in metres (logistics)	n4+n6
332 (c)	Width, diameter or second measurement in metres (logistics)	n4+n6
333 (c)	Depth, Thickness, Height or third measurement in metres (logistics)	n4+n6
334 (c)	Area in square metres (logistics)	n4+n6
335 (c)	Gross volume in litres	n4+n6
336 (c)	Gross volume in cubic metres	n4+n6
340 (c)	Gross weight in pounds	n4+n6
37	Quantity	n2+n..8
400	Customer order number	n3+an..30
410	Dispatch to (delivery to) operational point using EAN-13 or DUNS number (Dun & Bradstreet) with initial zeros	n3+n13
411	Invoice to (charge to account) operational point using EAN-13 or DUNS number (Dun Bradstreet) with initial zeros	n3+n13
412	Purchased from (operational point where purchase was made) using EAN-13 or DUNS number	n3+n13
420	Dispatch to (delivery to) postcode within the same Postal Authority	n3+an..9
421	Dispatch to (delivery to) postcode with 3-digit ISO country prefix	n3+n3+an..9
8001	Coiled products – width, length, nuclear diameter, direction and joins	n4+n14
8002	Electronic Series Number for Cellular Mobile Phones	n4+an..20
90	Internal Applications	n2+an..30
91	Internal – Raw Material, Packing, Components	n2+an..30
92	Internal – Raw Material, Packing, Components	n2+an..30
93	Internal – Product Manufacturers	n2+an..30
94	Internal – Product Manufacturers	n2+an..30
95	Internal – Carriers	n2+an..30
96	Internal – Carriers	n2+an..30
97	Internal – Wholesalers and retailers	n2+an..30
98	Internal – Wholesalers and retailers	n2+an..30
99	Internal – Mutually defined text	n2+an..30

- (a): To indicate year and month alone, DD can be completed with "00".
- (b): one extra digit to indicate length,
- (c): one extra digit to indicate the decimal point.
- nx is a field with x digits.
- ax x is an alphanumerical field with a maximum of x characters.

20. LINERLESS APPENDIX

The “LINERLESS” system uses for printing a special type of adhesive thermal paper without backpaper.



20.1. MODELS

The 500 series 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 the scales Mistral, Tornado and Star which include the labels cassette.

20.2. LABELLING ASSEMBLY

The “Linerless” labelling assembly includes the following changes:

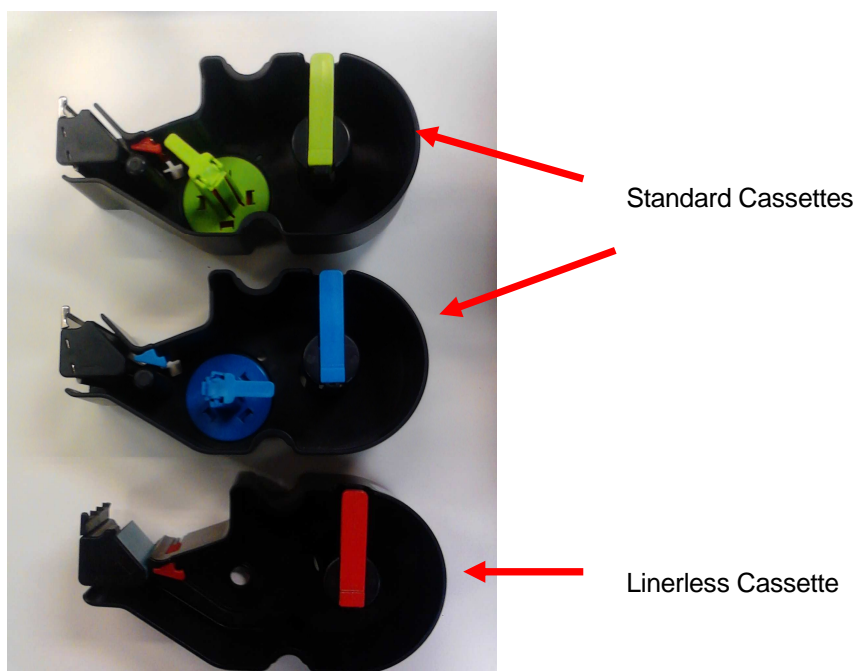
- New labels transport silicone roll, different to the standard one
- New cassette, without backpaper rewinder.

20.2.1. 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 coloured. There is not backpaper rewinder.



20.2.2. 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 labelling assembly can't print in Linerless paper.

20.3. CONFIGURATION

To activate the printing with linerless paper, it is necessary to access the configuration menu, Type of Paper, as follows:

Press **MENU** during 2 seconds.

Press **7 4 1 5**

The possible values are:

- '0' – Adhesive labels.
- '1' – Continuous paper without rewinder
- '2' – Continuous paper with rewinder
- '3' – **Linerless.**

Select the option 3 and press ***** to save.

Press **MENU** to exit.

20.4. 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.

21.COLOUR GRAPHIC DISPLAY APPENDIX

21.1. CHARACTERISTICS

The Star series scales can come equipped with 7" TFT displays, ensuring enhanced picture quality and the chance to display advertising images and messages.



Technical characteristics:

- 7" TFT
- 800x480 resolution
- Active area: 152.4 x 91.4mm
- Viewing angle: 6 o'clock.

Functional characteristics:

- Buyer-seller display.
- Dual body formats, flat-tower and hanging.
- Up to 200 full-screen advertising and promotion images. Maximum size 800x480 pixels.
- Up to 2000 PLU-associated images. Maximum size 210x210 pixels.

21.2. FEATURES IN COLOUR VERSION OPERATION

STAR scales with 7" TFT display offer a series of improvements in operation as a result of enhanced picture quality and the display's graphic possibilities which allow for the display of icons or help text on the screen for the user.

Below are some examples of the information presented on the 7" display in different working and programming operations.

21.3. BUYER-SELLER DISPLAYS

The possibility to display the product image on the buyer display and the possibility to display advertising on both displays.

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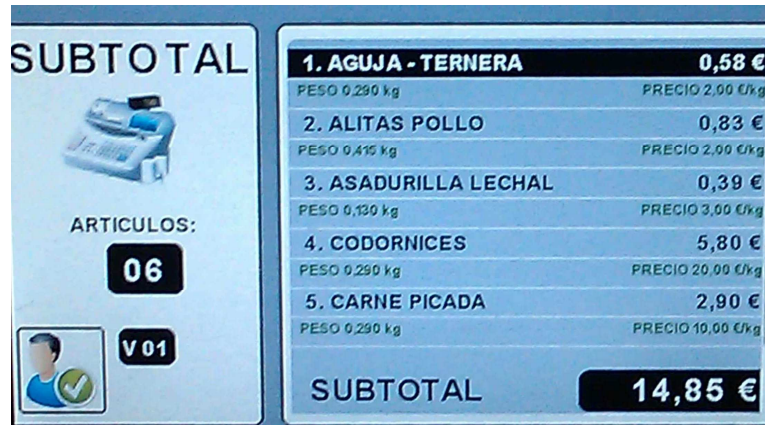
21.3.1. PRODUCT DATA SHEET

Given the display's greater resolution, more information on the product can be viewed on screen.

ARTICULOS (1)	
CODIGO	
P L U	---
PRECIO	0,00
NOM B	DIRECT PRICE
NOM 2	
NOM 3	
TIPO	PESADO
SECCION	0

21.3.2. REVIEW OF THE RECEIPT

When a receipt needs to be reviewed with the subtotal key, you can view up to 5 lines of the receipt on the same screen.



21.3.3. QUICK PRICE CHANGE

If you wish to make a quick price change, press the product's direct key for two seconds and the scale will show the product code, its price and the associated image



21.3.4. ADDING CASHIERS

When adding cashiers, the scale displays an icon over the cashier number in order to indicate the cashier in working mode.

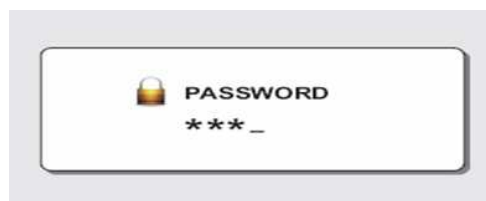


When deleting a receipt, the scale will display the following screen:



21.3.6. PASSWORD

At the access password programming menu, the scale displays this screen for programming said passwords.



21.3.7. PAYMENT METHODS

In the event of using more than one payment method in the receipt, the scale displays a help screen with the different possible payment methods together with the payment methods used.



22. IMAGES ON THE COLOUR DISPLAY

22.1. INTRODUCTION

In Gama 500 scales with 7" TFT displays it is possible to load up to 200 advertising images, with a maximum resolution of 800x400 pixels, and 2000 images of products with a maximum resolution of 210x210 pixels.

22.2. LOADING IMAGES

The product images can be loaded:

- From the PC using DFS software
- From the scale's USB port by importing a backup file with images.

The product images can be loaded:

- From the PC using DFS software
- From the PC using the software for Creating CDA Screens.
- From the scale's USB port by importing a backup file with images.

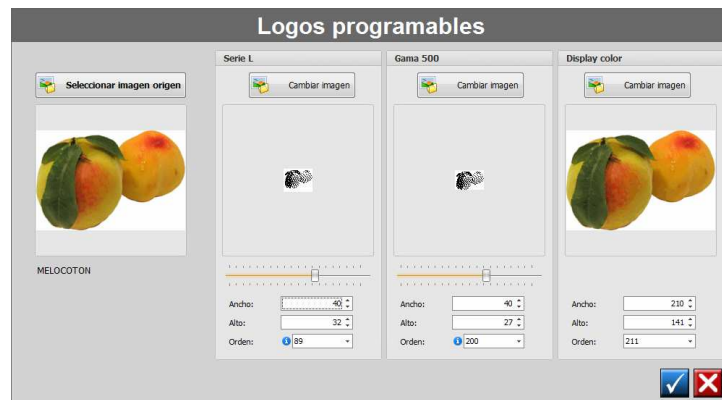
22.2.1. Product Images

22.2.1.1. Load via DFS

The product images are loaded in the scale from the Logos menu, by selecting the "Adding section logo" option.



On selecting an origin image, irrespective of its size, the DFS software processes it and processes it to send it to the scale as the product logo.



Once the logos are selected, they are sent to the scale using the Send via DFS option.



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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

The TX_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 (Menu 5-5-1).

22.2.1.2. Programming products in DFS

In the product's Datos3 tab, you can select one of the programmed images as the product logo in the "Colour Logo" field.

22.2.1.3. Load via USB

In order to load the 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 (the scale's Menu 5-5-1).

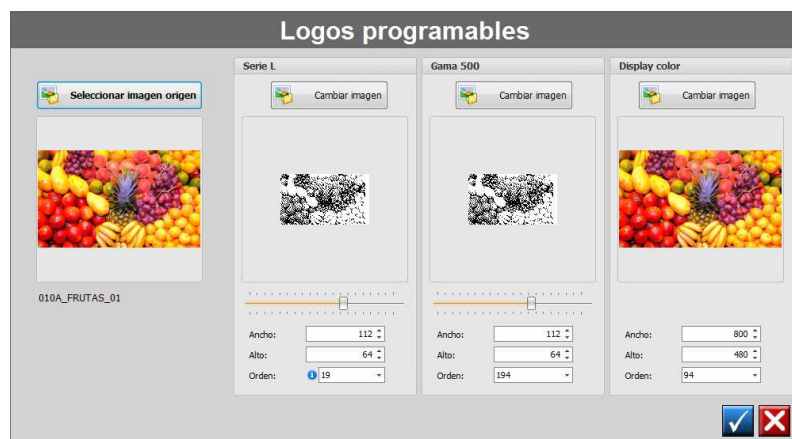
22.2.2. Advertising Images

22.2.2.1. Load via DFS

The product images are loaded in the scale from the Logos menu, by selecting the Adding Start Logo/Advertising option.



On selecting an origin image, irrespective of its size, the DFS software processes it and processes it to send it to the scale as the product logo.



Once the logos are selected, they are sent to the scale using the Send via DFS option.



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

The TX_Logos.txt file can be sent to the scales using the Send File option in the DFS main menu.

TX_LogosUSB.bck

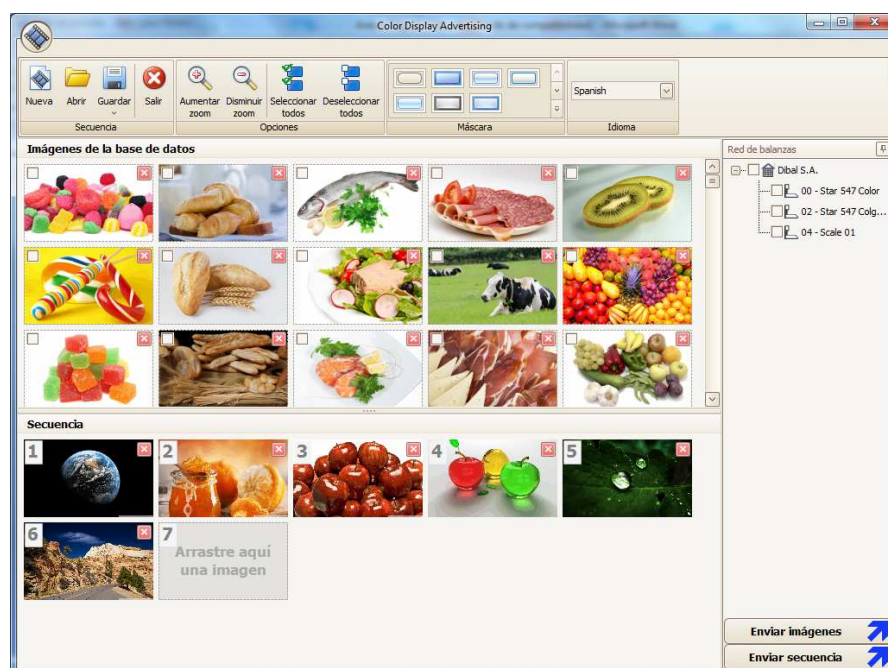
The TX_LogosUSB.bck file is a backup file including images which can be imported to the scale from the scale’s “Load Data” menu (Menu 5-5-1).

In this case, the sequence of images shown on enabling advertising is programmed directly in the scale from Menu 3-8-7-2 (Image Sequence)

22.2.2.2. Load from CDA (Colour Display Advertising) Software

The CDA application allows you to design advertising screens and send them to the scale using the Send Images option.

The CDA application is started from the Menu: DFS software Texts-Advertising-Colour. It allows you to design advertising screens and program the sequence of images that will display on the scale.



22.2.2.3. Load via USB

To load the images in the scale, import a backup file with Advertising images created using DFS (TX_LogosUSB.bck) from the USB port to the scale through the “Load Data” Menu (scale’s Menu 5-5-1).

22.3. CONFIGURING ADVERTISING ON THE SCALE

INTRODUCTION

Follow these steps in order to configure advertising in the Star-Color scale:

1. Enable Advertising
2. Select the displays on which it is to be displayed.
3. Program the Sequence of Images.
4. Select the Initial Image of the Sequence.
5. Program the exposure time of the images.

Having carried out these steps, the advertising will display when there is no weight on the dish and no activity in the scale (keys, etc.).

ENABLING ADVERTISING (3.7.4)

Press **MENU** for 2 seconds. The scale will access programming mode.

Press **3 7 4**. The scale will display the value of the timing of the Advertising (a value between 0 and 5).

Enter a value from 1 to 5 (for example, 1) and press *****

Press **MENU** for 2 seconds in order to quit normal working mode

SELECTING DISPLAYS (3.8.6)

Press **MENU** for 2 seconds. The scale will access programming mode.

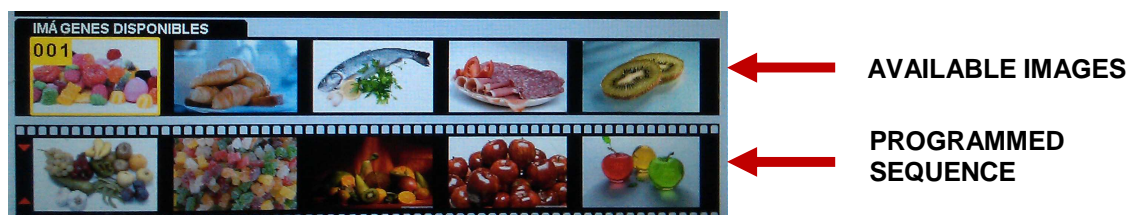
Press **3 8 6**. The scale will display the configuration of displays on the screen. Use the **F1** and **F2** keys to position yourself on the configuration of the required display and press *****.

Press **MENU** for 2 seconds in order to quit normal working mode

PROGRAMMING THE SEQUENCE OF IMAGES (3.8.7.2)

Press **MENU** for 2 seconds. The scale will access programming mode.

Press **3 8 7.2**. The scale will show the **AVAILABLE IMAGES** in the screen on the **UPPER PART** and, on the **LOWER PART**, the **PROGRAMMED SEQUENCE**.



NAVIGATION:

- Use the **F1** and **F2** keys to move from **AVAILABLE IMAGES** to **PROGRAMMED SEQUENCE** and vice versa, vertically.
- Use the **+** and **-** keys to do so horizontally, within each area.

To ADD AN IMAGE TO THE SEQUENCE:

- Position yourself on **AVAILABLE IMAGES**.
- Use **+** and **-** to position yourself on the image you wish to insert
- Press ***** to select the required image. This image will immediately display on the lower part of the screen (**PROGRAMMED SEQUENCE**).

To REMOVE AN IMAGE FROM THE SEQUENCE:

- Position yourself on **PROGRAMMED SEQUENCE**.
- Use **+** and **-** to position yourself on the image you wish to remove
- Press **C** to remove the image

To INSERT AN IMAGE IN A SPECIFIC PART OF THE SEQUENCE:

- Position yourself on **PROGRAMMED SEQUENCE**.
- Use **+** and **-** to move to the position in which you wish to insert the image. The position in which the image will be inserted in the sequence is indicated by means of two red markers.
- Position yourself on **AVAILABLE IMAGES**.
- Use **+** and **-** to position yourself on the image you wish to insert
- Press ***** to select the required image. This image will immediately be inserted in the position selected in the **PROGRAMMED SEQUENCE**.

To FINALISE PROGRAMMING OF THE SEQUENCE OF IMAGES

Press **MENU** for 2 seconds in order to quit normal working mode

INITIAL VALUE OF THE SEQUENCE (3.8.7.1)

Press **MENU** for 2 seconds. The scale will access programming mode.

Press **3 8 7.1** The scale will show the value of the initial image of the sequence on the screen (A value between 1 and 200).

Enter a value from 1 to 200 (for example 2) and press *****

Press **MENU** for 2 seconds in order to quit normal working mode

EXPOSURE TIME OF THE IMAGES (3.8.7.3)

Press **MENU** for 2 seconds. The scale will access programming mode.

Press **3 8 7.3** The scale will show the time in seconds during which each image will display on the screen. The minimum value is 1 and the maximum is 60.

Enter a value from 1 to 60 (for example 5) and press *****

Press **MENU** for 2 seconds in order to quit normal working mode



DECLARATION OF CONFORMITY
 DECLARATION DE CONFORMITE
 KONFORMITÄTSERKLÄRUNG
 DICHIARAZIONE DI CONFORMITA
 DECLARACION DE CONFORMIDAD



Nº of the notified body that carried out the EC Verification referred to the Council Directive 2009/23/EC:
 Nº de l'organisme notifié, qui a effectué la surveillance CE en conformité avec la directive 2009/23/EC.
 Nr. der zur CE-Eichung zugelassenen Stelle nach europäischer Richtlinie 2009/23/EC:
 Nº del Organismo Notificado encargado de la Verificación CE conforme a la directiva 2009/23/EC:
 Nº dell'Organismo Notificato che ha eseguito la sorveglianza CE in riferimento alla direttiva del consiglio 2009/23/EC:

0122

Manufacturer:
 Fabricant:
 Hersteller:
 Fabricante:
 Fabricante:

DIBAL, S.A.
Astintze 20-24. Pol. Industrial Neinver
48160 – Derio SPAIN

General Manager: Javier Deniz Gento
 Date/Data/Datum/Fecha: 23/Jul/2012

Type:	500	No of the EC type-approval certificate:	
Typ:	500-SW	Nº du certificat d'approbation CE de type:	T7761
Tipo:	series	Bescheinigungsnr. der EC Bauartzulassung:	TC7762
		Nr. certificato d'approvazione CE del tipo:	
		N.º do certificado de aprovação CE do tipo:	
		Nº de certificado de aprobación CE de tipo:	

GB

This corresponds to the production model described in the EC type-approval certificate in accordance with the requirements of the Council Directive 2009/23/EC amended, according to the requirements of the following EC directives: 2004/108/CEE, 2006/95/CE, examinations and tests referred to in EN45501-8.2.

In case of verification in two stages the validity of the declaration of conformity may depend on the documentation on the execution of the second stage of verification.

F

Correspond au modèle décrit dans le certificat d'approbation CE de type, selon les exigences de la Directive 2009/23/EC modifiée conforme aux exigences des directives CE suivantes: 2004/108/CEE, 2006/95/CE, examens et essais en conformité avec la norme européenne EN45501-8.2.

En cas de vérification en deux étapes la validité de la déclaration de conformité peut dépendre de la documentation sur l'exécution de la deuxième étape de la vérification.

D

Entspricht dem Baumuster, der in der Bescheinigung über die EU Bauartzulassung beschrieben wird, nach den Anforderungen der Richtlinie 2009/23/EC bestimmt, ergänzt durch folgende Anforderungen der Richtlinien: 2004/108/CEE, 2006/95/CE, Prüfungen und Versuche nach EN45501 Abs. 8.2.

Bei der Eichung in zwei Stufen kann die Gültigkeit der Konformitätserklärung vom Nachweis der Durchführung von der zweiten Stufe der Eichung abhängen.

I

Corrisponde al modello descritto nel certificato di approvazione CE del tipo, ai requisiti della direttiva del consiglio 2009/23/EC e successive modifiche ed ai requisiti delle directive CE seguenti: 2004/108/CEE, 2006/95/CE, esami e verifiche secondo la normativa europea EN45501 app. 8.2.

Nel caso di verifica dello strumento in due fasi, la validità della dichiarazione di conformità può dipendere dalla documentazione della verifica della seconda fase

P

Corresponde ao modelo descrito de acordo com o certificado de aprovação CE, em conformidade com as exigências das seguintes Directivas CE: 2009/23/EC, 2004/108/CEE, 2006/95/CE, provas e verificação segundo a normativa europeia EN 45501 alinea 8.2.

Em caso de verificação em duas etapas a validade da declaração de conformidade pode depender da documentação da execução da segunda etapa da verificação.

E

Corresponde al modelo descrito en el certificado de aprobación CE de tipo, según las exigencias de la Directiva 2009/23/EC modificada conforme a las exigencias de las Directivas CE siguientes: 2004/108/CEE, 2006/95/CE, exámenes y comprobaciones según la norma europea EN45501 apartado 8.2.

En caso de verificación en dos etapas la validez de la declaración de conformidad puede depender de la documentación sobre la ejecución de la segunda etapa de la verificación.

The information contained in this manual can be changed by the manufacturer without prior notice.

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DIBAL

The logo for DIBAL features the word "DIBAL" in a bold, sans-serif font. Below the text is a stylized graphic element consisting of a thick horizontal line that tapers to a point in the center, resembling a wide, shallow V-shape or a stylized roofline.