

K SERIES

K-330/335/350/355



USER'S MANUAL

DIBAL

REF.: 49-MK300EN24

MANUAL CONTENTS

1. INTRODUCTION	1
2.1. CHARACTERISTICS OF K SERIES SCALES	1
1.2.2. <i>General Characteristics</i>	1
1.2. INSTALLATION OF SCALES	2
1.3. HOW TO PREPARE THE SCALES FOR OPERATION	2
1.4. MAINTENANCE ADVICE AND HOW TO LOOK AFTER YOUR SERIES K SCALES	3
2. OPERATING THE SCALES.....	4
2.1. SWITCHING ON THE SCALES	4
2.2. SWITCHING THE BACKLIGHT ON/OFF	4
2.3. NORMAL WEIGHING	4
2.4. MANUAL ZERO SETTING	5
2.6. DISCOUNTS.....	6
2.8. REVISION OF TRANSACTIONS	6
2.8.1. <i>REOPENING THE RECEIPT</i>	7
2.9. CALCULATION OF CHANGE	7
2.10. FORMS OF PAYMENT.....	7
2.11. TARE.....	8
2.12. OPENING THE CASH DRAWER.....	8
2.13. LISTINGS.....	9
2.14. DELETING SALES TOTALS	10
2.15. INVENTORIES.....	10
2.16. FAST P.L.U. PRICE CHANGE	11
2.17. FREE PRICE	11
2.18. QUICK CHANGE OF TYPE OF PAPER	11
2.19. BATCH NUMBER	11
3. PROGRAMMING OF ARTICLES, TARES AND SALES ASSISTANTS	12
3.1. DELETE ALL DATA FROM SCALES	12
3.1.1. <i>Delete Articles</i>	12
3.2. PROGRAMMING OF ARTICLES	12
3.3. PROGRAMMING VAT RATES.....	14
3.4. PROGRAMMING OF TARES.....	14
3.5. SIGNING ON AND OFF OF SALES ASSISTANTS (VENDORS).....	15
3.6. ASSIGNING PRESET KEYS.....	15
4. CONFIGURATION OF PRINTER.....	16
5. RECEIPT AND LABEL	17
5.1. RECEIPT DESIGN.....	17
5.2.1. <i>Copying a format</i>	21
5.2.2. <i>Deleting a format</i>	21
6. CONFIGURATION	22
6.1. DELETE ALL DATA FROM SCALES	22
<i>Delete articles</i>	22
6.2. GENERAL CONFIGURATION	22
6.2.1. <i>Conf. 00: Barcode</i>	23
6.2.2 <i>Conf. 01: Calculation of change</i>	23
6.2.3. <i>CONF. 02: FIX THE TARE</i>	23
6.2.4. <i>Conf. 03: Fix price.Free price.Amount Zero</i>	24
6.2.5. <i>Conf. 04: Paper type</i>	24
6.2.6. <i>Config 05: Permit Multiplication</i>	25
6.2.7. <i>Config 06: Permit Addition</i>	25
6.2.8. <i>Config 07: Permit subtraction</i>	25
6.2.9. <i>Config 08: Permit subtotal</i>	26
6.2.10. <i>Config 09: Send receipt to computer</i>	26
6.2.11. <i>Config 10: Sale per grams or kilograms</i>	26

6.2.12. Config 11 : Cash Receipt	27
6.2.13. Config 12: Cash Receipt distance	27
6.2.14. Config 13: Print VAT on the receipt.....	27
6.2.15. Config 14: EAN 13 format	28
6.2.16. Config 15: Show tare weight	29
6.2.17. Config 16: Type of meat control.....	29
6.2.18. Config 17: Printing of sales assistant code on receipt	29
6.2.19. Conf. 18: Join texts.....	29
6.2.20. CONF. 19: FORMAT EAN-128	30
6.2.21. Conf. 20: Timer for total.....	30
6.2.22. Conf. 80: Receipt barcode.....	31
6.2.23. Conf. 81: Label barcode.....	31
6.3. PROGRAMMING IN EUROS	31
6.4. CURRENCIES	33
6.5. CURRENCY EXCHANGE	34
6.6. DEFINING SECTIONS	34
6.6.1. EDITION OF EAN 128	35
6.7. STABILITY	38
6.8. HEADER LINES IN LISTS.....	38
6.9. DATE & TIME ADJUSTMENT	38
6.10. PROGRAMMABLE DATE FORMAT FOR LABELS	39
6.11. LIST ACCESS PASSWORD	39
6.12. SELF-SERVICE MODE	40
6.13. AUTOMATIC WEIGHTING MODE	41
6.13.1. OPERATIVE IN AUTOMATIC WEIGHING	41
6.13.2. TOTAL LABELS	41
7. COMMUNICATIONS	42
7.1. MASTER OR SLAVE CONFIGURATION.....	42
7.2. PC CONNECTION CONFIGURATION	43
7.3. PC COMMUNICATION PARAMETERS.....	43
7.4. COMMUNICATIONS CABLES	44
7.4. SENDING DATA TO A PC.....	45
7.6. ARRANGE PLUS.....	45
7.7. LOADING ITEMS (L.B.S.).....	45
8. APPENDIX	46
8.1. RESTORING DEFAULT VALUES.....	46
8.2. SEGMENT TEST	46
8.3. WEIGHT WINDOW.....	46
8.4. MANUFACTURER CODE	46
8.5. SUMMARY OF ACCESS TO PROGRAMMING FEATURES	47
8.6. REPLACING THE PAPER IN THE PRINTER.....	48
8.7. CHARACTER CODES.....	49
8.8. INGREDIENT CODES.....	52
8.9. TROUBLESHOOTING.....	54
8.9.1. Problems with weight	54
8.9.2. Communication errors.....	54
8.9.3. Problems with items weighed.....	55
8.9.4. Printing problems	55
8.9.5. Keyboard problems	55
8.9.6. Programming problems.....	55
8.10. ACCESORIES	56
8.11. PLU PROGRAMMING FOR BEEF TRACEABILITY	57
8.11.1. BEEF TRACEABILITY PROGRAMMING ITEMS.....	57
8.11.2. ANIMAL PROGRAMMING (BEEF TRACEABILITY)	58
8.11.2.1. Table of Countries	59
8.11.3. BEEF TRACEABILITY OPERATION.....	60
8.11.4. PRINTING RECEIPTS WITH BEEF TRACEABILITY DATA.....	60
8.11.5. BEEF TRACEABILITY LISTS	60
8.11.6. BEEF TRACEABILITY LABEL FORMATS	61

9. ANNEX FOR SCALES WITH INTERNAL BATTERY 62

- 9.1. CONSEJOS PARA EL FUNCIONAMIENTO DE LAS BALANZAS 62
- 9.2. BATTERY INDICATOR..... 63
- 9.3. BATTERY CHARGE LEVEL LIST 63
- 9.4. TYPES OF BATTERIES 64
- 9.5. CHARGING TIME 64
- 9.6. EXTERNAL BATTERY CHARGER 64

1. INTRODUCTION

2.1. CHARACTERISTICS OF K SERIES SCALES

1.2.2. General Characteristics





Models	Available Formats ⁽¹⁾							PLUs	PLU keys	Printer	Inter-connection	PC Connection		Internal Battery	External Bat. Conn.
	F	F-XL	T	T-XL	DB	AH	SSH					SS	Serial		
K-330	•	•	•	•	•	•	•	5.000	32 x 2	Receipts		RS-232			Opt. ⁽⁶⁾
K-330 XL		• ⁽²⁾		• ⁽²⁾				5.000	32 x 2	Receipts		RS-232			
K-350	•	•	•	•	•	•	•	5.000	32 x 2	Receipts	•	RS-232/422	Optional		Opt. ⁽⁶⁾
K-350 XL		• ⁽²⁾		• ⁽²⁾				5.000	32 x 2	Receipts	•	RS-232/422	Optional		
K-330 B	•	•		•				5.000	32 x 2	Receipts		RS-232		•	•
K-330 B XL		• ⁽²⁾		• ⁽²⁾				5.000	32 x 2	Receipts		RS-232		•	•
K-350 B	•	•		•				5.000	32 x 2	Receipts	•	RS-232/422	Optional	•	•
K-350 B XL		• ⁽²⁾		• ⁽²⁾				5.000	32 x 2	Receipts	•	RS-232/422	Optional	•	•
K-335	•	•		•				2.000 ⁽⁴⁾	32 x 2	Labels/Receipts		RS-232		Opt. ⁽⁵⁾	Optional
K-335 XL		•		•				2.000 ⁽⁴⁾	32 x 2	Labels/Receipts		RS-232			Opt. ⁽²⁾
K-355	•	•		•				2.000 ⁽⁴⁾	32 x 2	Labels/Receipts	•	RS-232/422	Optional	Opt. ⁽⁵⁾	Optional
K-355 XL		•		•				2.000 ⁽⁴⁾	32 x 2	Labels/Receipts	•	RS-232/422	Optional		Opt. ⁽²⁾
K-380/382 ⁽³⁾							•	1.900 ⁽⁴⁾	100	Labels		RS-232/422	Optional		
K-385/387 ⁽³⁾							•	1.900 ⁽⁴⁾	150	Labels		RS-232/422	Optional		

1) F= FLAT, F-XL= FLAT WITH LARGER PLATE, T= TOWER, T-XL= TOWER WITH LARGER PLATE, DB= DOUBLE BODY, AH= ABS HANGING, SSH= STAINLESS STEEL HANGING, SS= SELF SERVICE.
 2) Commercial launch during second quarter 2008. (3) K-380/382: 100 KEYS keyboard. K-385/387: 150 KEYS keyboard. K-380/385: Buyer display, K-382/387: 2 Displays (buyer and vendor).
 4) Also available firmware versions for telecharge with 400, 800, 1.500 or 4.500 PLUs, depending on the charge of information in each PLU (400 or 3.700 PLUs in Self-Service models).
 5) Internal "anti black-out" battery: optional, not available in hanging models. (6) External battery connection: optional in hanging models (for the rest of formats, just available in 330 B, 330 B XL, 350 B and 350 B XL models).

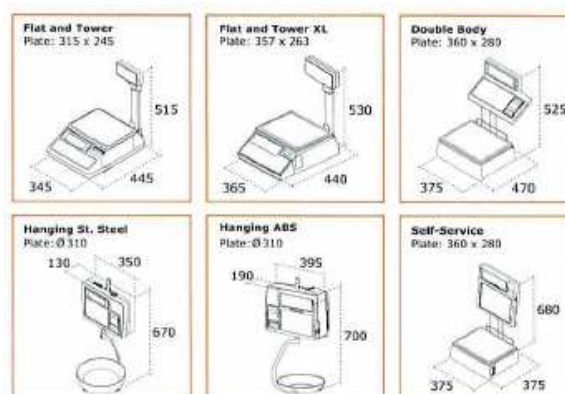
- All the models can be connected to a PC for updating the program, loading/unloading data and making back-up copies.
- Scales with a labelling machine are supplied with memory for 2000 PLUs and can be loaded with 4 versions of the program:
 - Version S for 400 PLUs with 2 lines of text with 256 characters.
 - Version T for 800 PLUs with 1 line of text with 256 characters.
 - Version L for 4.500 PLUs with only the name of the item and the date.
 - Version P for 1.500 PLUs with Logotypes and the article's standard data.

! Models K-330, K-335 y K-38X, are always set up as master scales.

The scales display the following symbols:

- Zero symbol 
- Stable weight indicator 
- Printer out of paper 
- Sales assistants V1 V2 V3 V4 V5: this indicates whether any of the sales assistants' memories are being used for any operation.
- Tare symbol: NET
- Battery without charge  (! only on models with internal battery).

1.1.2 DIMENSIONS



1.1.3 ELECTRICAL SPECIFICATIONS

1. Power supply 220VAC, 50 Hz, 60VA.
2. Battery (External/Internal)(optional)12VDC 4.5Ah(2)
3. Operating temperature-10°C to +40°C.
4. Type of Printing.....Thermal (8 dots/mm)
5. Maximum Labels Size.....60x70mm

(1) We recommend only using parts supplied by DIBAL, S.A.. The scales' guarantee does not cover damage caused as a result of using parts that are not supplied by DIBAL S.A.

(2) See Battery Specifications in Annex for Scales with Internal Battery

Use original batteries supplied by DIBAL S.A. The use of any other type will render the scales' guarantee void and may be dangerous. The scales' guarantee does not cover damage caused as a result of using batteries that are not supplied by DIBAL S.A.

1.2. 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 **earth**.
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 for Scales with Internal Battery
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 firm, even surface.
8. No objects must come into contact with the plate.
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.

1.3. HOW TO PREPARE THE SCALES FOR OPERATION

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

- STEP 1:** **Install the scale** as described in section. *Installation of scales*. Connect the scales as described in section *Switching on scales*.
- STEP 2:** **Make a total deletion of the scale** (See section Total deletion of the scale).
- STEP 3:** If the scales can be connected to other scales or to a PC, (see table in section *Characteristics of the K Series scales*), **address the scales correctly**, i.e. set up the scales as MASTER or SLAVE, and assign the corresponding address. (See section Configuration as Master or Slave).
- STEP 4:** If the scales are for use in a Euro Zone country, **ensure that the present EURO PHASE is configured correctly**. (See section *Programming of Euro*)


- STEP 5:** Program the articles, sales assistants and tare keys (See chapter *PROGRAMMING OF ARTICLES, SALES ASSISTANTS AND TARES*).
- STEP 6:** Design the receipt (See chapter *RECEIPT DESIGN*).
- STEP 7:** Design the label (See chapter *LABEL DESIGN*).
- STEP 8:** Set up the scales to adapt them to your individual mode of work: permit operations, set up printers, set up passwords, etc, ... (see chapter *CONFIGURATION*).
- STEP 9:** Start to operate the scales, (Refer to the chapter *OPERATING THE SCALES*)

 The scale has the possibility of **Restore basic working parameters** (one label format and one vendor) to start working with it. See chapter Restore Default Data

1.4. MAINTENANCE ADVICE AND HOW TO LOOK AFTER YOUR SERIES K SCALES

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

1. Never place a weight on the scales that exceeds the maximum limit.
2. Do not place weights suddenly on the dish if they exceed a sixth of the maximum limit.
3. Do not exert sideways pressure on the plate.
4. Always keep the 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 Annex. 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 90/384/EC), this type of equipment may only be used if packages are above the minimum weight. The scales can be set up for specific use for pre-packaging tasks. Consult your supplier or technical assistance service.

2. OPERATING THE SCALES

2.1. SWITCHING ON THE SCALES

K-355	V-05C
15000	OIML

9.9.9.9.9.9.9.9.9.	
9.9.9.9.9.9.9.9.9.	

0.000	0.00
0.000	0.00

VERIF INGRED


CONECT ORD


LOADING DATA


After ensuring that the scales are correctly installed, turn on the switch on the bottom of the scales.

The backlight flashes during 2 seconds and then the scale shows details on the model, programme version, and maximum range of the scales, the scales are checked for any possible errors: the screen shows a countdown from 9 to 0.

When the countdown is complete, and no error has been detected, the weight, price/kg, total and tare values all read zero. This is the scales' *normal operational mode*.

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


 If the message, *CONNECT THE COMPUTER* appears after countdown, press any key to enter the scales' *normal operational mode*

 If the scales can be connected to other scales, and it is programmed as the SLAVE (see section Configuration as Master or Slave), and the corresponding MASTER is not working, the message *LOADING DATA* will appear, and the scales will remain in this state. Switch on the MASTER and wait for the message to disappear


2.2. SWITCHING THE BACKLIGHT ON/OFF

SHIFT and 

BACKLIGHT
2

Use the **SHIFT** and  keys to program the display lighting, using one of the following values:

0. it never lights up
1. always light up
2. it lights up for 30 seconds, when any key is pressed or there is a variation in weight.

 **The backlight will not light in models with internal battery when the parameter Working with the internal battery is enabled.**

2.3. NORMAL WEIGHING

...
... **PLU**

0.478	0.00
0.000	0.00

0.478	1.00
0.000	0.48

C

1. When the scales are in operation, place the product to be weighed on the platform.

2. Use one of the following methods to enter the price per kilogram:

- Directly with the number keys.
- Enter the article code and press **PLU**.
- Directly press the corresponding short-cut key (1 to 64)

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

F	0.478	1.00
	0.000	0.48

If you wish to **set the price**, press key **F**. (see Conf 03 Fix price in chapter General Configuration)

Each time an article is removed, the price will not automatically reset to zero, but the fixed value will remain on screen. Simply press the memory key of the corresponding sales assistant to memorise the weight.

	0.000	1.00
	0.000	0

...**C**

To delete the fixed price, press key **C**.

3. Press the memory key of the corresponding sales assistant.

V1	0.478	1.00
	0.000	0.00

! If you cannot memorise the operation, the corresponding sales assistant must be signed on. See section Signing on and off of sales assistants.

The amount will be shown with some hyphens, indicating that the operation has been memorised. If the scales are in label mode, the label will be printed.

F and 3	0.478	0.60
	EURO	0.29

! If you wish to see the price and amount in the Secondary Currency while you operate the scales, press **3 while holding down **F**.**

2.4. MANUAL ZERO SETTING

F and 2	0.000	0.00
	0.000	0.00

The scales have a manual zero mechanism: if the weight value is not zero for any reason when the article is removed from the platform, and it is within a 2% range, the weight value can be returned to zero by pressing keys **F** and **2** at the same time.

2.5. NON-WEIGHT OPERATIONS (ADDITION SUBTRACTION, MULTIPLICATION)

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

The scales must be programmed to enable adding, subtraction and multiplication operations. (See section *General Configuration*)

The method of operation is as follows:

+		0.00
		0.00

1. Press **+** or **-** depending on whether you wish to add or subtract.

2. Enter the price/item of the product:

... PLU		1.25
		1.25

- Directly with the number keys.
- Enter the item code and press key **PLU**.
- Press the corresponding direct short-cut key (1 to 64)

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

X	UNI 0	1.25
...		0.00

3. If you wish to add or subtract **more than one item** before memorising the operation, press **X** and enter the number of products.

V1	0.000	0.00
	0.000	0.00

4. Memorise the operation of the corresponding sales assistant by pressing one of the memory keys. **Vx**

2.6. DISCOUNTS

...	0.205	12.50
[-]	0.000	2.56
[5]	DISCOUNT	
	2.56	
[V1]	DES	5
	2.43	
...		
[*]	0.478	100
	0.000	48
[V1]	Total	
	V1	1 478

1. Place the product to be weighed on the platform.
2. Press the corresponding direct short-cut key.
3. Press the - key.
4. Type in the discount percentage.
5. Press the memory key of the corresponding sales assistant.

2.7. SALES ASSISTANT'S TOTAL AND PRINTING OF THE RECEIPT

To obtain the **total for one transaction**, follow the steps below:

1. Effect the required operation.
2. Press [*].
3. Press the memory key of the corresponding sales assistant.

The memory number, number of items and total sum will be shown, and the receipt will be printed.

If the option **CASH RECEIPT** (see Conf 11 in section *General Configuration*) has been selected, then the "CASH RECEIPT" note will be printed.

If [C] is pressed, or if no key is pressed for 10 seconds, the scales return to normal operation status

Copies of the receipt: if no other operation is effected using the same memory, the receipt can be printed as many times as required, following the above steps. The word:

*** copy ***

will appear on each copy.


If a memory operation is commenced with the same sales assistant key, it is considered that the new operation corresponds to a new customer, and data will be reset to zero.

2.8. REVISION OF TRANSACTIONS

Before concluding and printing the receipt for a transaction, it is possible to revise and modify it, as follows:

1. Press the subtotal key [◇].
2. Press the corresponding sales assistant memory key: the sum total for the selected memory will be shown together with the number of operations.
3. Use keys [+] and [-] to revise each of the accumulated operations.

Press key [C] to delete the operation on screen.

 **If you cannot revise the transaction, the *Config 08: Permit Subtotal* must be programmed with a 0.**

To exit the operating status, press [◇] and [C].

[◇]	Subtot	
[V1]	V1	1 0.48
[+]	ARTIC	01
	0.48	
	0.00	0
	0.000	0

[◇] and [C]

2.8.1. REOPENING THE RECEIPT

It is also possible to **REOPEN THE RECEIPT**, i.e., after the receipt has been printed, it can be modified and then reprinted. The former receipt will be cancelled and the new printed one will show changes made.

To do this, follow points **1** and **2** from the preceding paragraph to revise the transaction, then press **X** and add or delete operations as required, following the procedure described in this section.

2.9. CALCULATION OF CHANGE

This option is activated through parameter *Conf.01 Calculation of change* (see section *General configuration*).

To effect this operation:

1. At the end of the transaction in course, press *****: the word **TOTAL** will appear on screen.
2. Press the corresponding memory key for the operation: the sales assistant memory number will appear, together with the number of items contained in the total, and the sum total.
3. You have 10 seconds to enter the amount delivered by the customer. The amount delivered, the change and the sum total will be shown.
4. Press *****: The amount delivered, the change and the sum total will be printed on the receipt.

! Press **X** to denote that the amount delivered is in the secondary currency (see section *Euro Programming*)

Press **C** to return to normal operation status.

2.10. FORMS OF PAYMENT

During the receipt printing stage (see 2.6), after pressing the total key *****, a number appears (from 0, which is the default value, to 4) which indicates the form of payment chosen by the customer.

It is possible to change this value using the number keys, just before pressing the sales assistant key.

! In lists 3 and 7 (see *chapter Lists2*), there is a section for the total sum of each form of payment.

total	0
-------	---

V1

V1	2	2.38
		0

...

t. 2.38
E.10.00 C. 7.62

0.000	0.00
0.000	0.00

C

total	0
-------	---

1

total	1
-------	---

2.11. TARE

This option enables the weight of the recipient to be subtracted. Effect the following steps from the normal operation mode to enable this option:

T	0.000	0
	0.036	0

1. Put the recipient to be weighed on the platform and press **T**: the tare display will show the tare weight value and the net weight indicator (**NET**) will come on .

F	-0.036	0
	0.036	0

2. Press **F** if you wish to set the tare. (Check Configuration parameter 02 in section *General Configuration*).

When a tare operation is carried out, the tare value will remain in the display until perform a memorization.

If the tare is not set, when the weight is removed, the tare will automatically be reset to zero.

In order to delete the tare setting, remove the weight and press **T**: the tare indicator will switch off.

Successive tare operations may be effected, but subsequent tares must always be of a greater weight.

! To see the tare on the display, the Configuration parameter 15 Tare on Display must be set to 0.

There are 2 possible ways of working with tares:

1 2 5	0.000	1.25
	0.000	0

a) Entering the tare value. To do this:

T	-0.125	0.00
	0.125	0.00

1. Ensure the platform is void of any possible weight.
2. Enter the value of the weight to be tared, using the number keys.
3. Then press **T**.

1	0.000	0.01
	0.000	0.00

b) Selecting one of the tares memorised on the scales. To do this:

PT	-0.100	0.00
	0.100	0.00

1. Press the memorised tare number which you wish to use (See section *Programming of Tares*)
2. Then press **PT**: the tare value will appear on the display.

In both cases, the tare value will be shown on the tare display, and **NET** will appear.

If the tare used is a preset tare, the scale will show **PT** in the tare display

2.12. OPENING THE CASH DRAWER

If the scales are equipped with a connection to a cash drawer, the latter will open in the following situations:

* V1

1. When a print order is made for a receipt (or copy), the cash draw opens automatically: press * followed by one of the memory keys.

* +

2. When * is pressed, followed by +.

2.13. LISTINGS

To obtain one of the lists available (see table below), take the following steps:

* F

0 0 0 0

1 *

LISTING	
LIST	1
C.	0 C.99999

1. Ensure that the scales are set up as the MASTER (see section Configuration as Master or Slave), and press keys and **F**.
2. Enter the access code to the lists, which is **0 0 0 0** by default (to change the access code, see *section Access code to lists*)
3. Press the key for the corresponding list to be obtained, as detailed in the table below. Press *****.

Key	Function	Observations
1	LIST OF ARTICLES	Enter range of article codes to be listed
2	SALES PER ARTICLE	Enter range of article codes to be listed
3	LIST OF TOTAL SALES PER GROUP	ALL sales effected with these scales
4	LIST OF SALES PER DEPARTMENT OR SECTION	Only list of articles which have undergone operations.
5	LIST OF PRESET KEYS	Preset keys of all the scales on the network
6	LIST OF VAT TOTALS	Accumulated total of each VAT rate
7	DAILY LIST	Daily sales
8	LIST OF ORDERS	See section 7.4 <i>Orders</i>
9	LIST OF INVENTORIES	Enter range of codes to be listed

*

Press **F** to exit list options.

4. Press ***** to print the corresponding list.

! In list 2 (sales per article), the article coded 99999 contains all sales realised at a DIRECT PRICE.

! Article groups listed under option 3 (group totals) are:

1. **Grand total:** sum total of all operations.
2. **Total wholesalers:** operations with sum totals which exceed wholesalers' limits.
3. **Negative totals:** Operations with negative totals.
4. **Articles weighed:** sum of operations effected with articles which are sold by weight.
5. **Non-weighed articles** sum of operations effected with articles which are not sold by weight.
6. **Returned articles:** sum of negative operations.

! El Apdo. Impresión de la s Cabeceras en los Listados tiene que estar a 1 para imprimirlas.

Prog.

* F 0 7 9 0

0 *

0

*

HEADi	1
-------	---

To print or not print **list headings**:

1. Enter the following sequence *** F 0 7 9 0**
2. Press **0** and then *****
3. Enter **0** or **1** to respectively print headings or not print headings.
4. Press ***** to save and **F** to exit.

2.14. DELETING SALES TOTALS

This operation **returns to zero** data on article **sales**. Take the following steps:

* F 0 0 0 0	LISTING
7 X C	CLEAR

1. Press * F and enter the access code to lists (0 0 0 0 by default).
2. Press C 7 times. All data on sales will be deleted and the *grand total* list will be printed.

2.15. INVENTORIES

This option enables a stock inventory to be effected using the scales:

* F 0 7 9	Pro9.
0	
0 * *	Invent 0
1	Invent 1
* *	0.000 0 0.000 Invent

1. Enter the following sequence * F 0 7 9 0.
2. Press 0 once and * twice.
3. Press 1 to enter the work in *inventory mode*.

! The scale does not keep inventory control.

! When all inventory operations have been completed, the scales should be programmed at this point with a '0' to enable normal work under *sales mode* to be recommenced.

4. Press * to accept data and press * 4 times to exit the programming mode.

Press * to work in inventory mode.

When the scales are set up to work in *inventory mode*, the word "**Invent**" will be displayed during work operations.

In stock mode, the amount is also printed on the receipt.

To make an inventory of an article, effect the following operation:

V1	0.036 0 0.000 Invent
	0.036 10.00 0.000 Invent

1. Place the article on the platform.
2. Select the article.
3. Press a memory key: a receipt will be printed showing the date, time, memory key used and the receipt number, followed by the name of the article, weight and price.

! To obtain a list of inventory totals, see section *Listings*.

7 X V1	CLEAR INVENT
--------	--------------

! To return to zero the values of inventory totals, enter the list options and press V1 7 times.

2.16. FAST P.L.U. PRICE CHANGE

In normal operation mode, press and hold the key of the article to be changed until a beep is heard and the price change menu appears.

+

C	1 PLU	01
PrE		12.50

Use **+** and **-** to move up and down through the different articles.

*

C	2 PLU	02
PrE		0.25

Accept *****.

2.17. FREE PRICE

If you wish to FREE THE PRICE of an item at any time:

1. Place the product on the platform.
2. Pres the direct key of the product or enter its code with the number keypad (then press **PLU**).
3. Press **PLU**.
4. Enter the new price and return to normal operation mode with the product.

! In point Conf.03: In order to set the price, the configuration must be programmed as 2 or 3 in order to permit free price.

SHIFT **PT**

PAPER TYPE	0
------------	---

2.18. QUICK CHANGE OF TYPE OF PAPER

1. Press this key sequence: **SHIFT** **PT**
2. Choose the working mode according to the Section.
3. Press the key *****

2.19. BATCH NUMBER

SHIFT

◇

Batch Nr.

To program the **Batch number**, press the **key sequence**: **SHIFT** **◇** (valid for **models K-3X5 and K-38X**).

Field 108 (Header 15) in **Label Format** must be programmed to print the batch number.

3. PROGRAMMING OF ARTICLES, TARES AND SALES ASSISTANTS

3.1. DELETE ALL DATA FROM SCALES

This will erase all memory in the scale:

* F 0 7 9 0

Pro9.

7 x X + 25^y

Start total 1

1. Enter programming mode.
2. Press X 7 times and confirm the operation by pressing the key 25^y

NOTE: If you delete all data from the scales, you will lose the factory-programmed label formats.

3.1.1. Delete Articles

(Only for K- 3X5 models)

This will erase all articles in the scale:

* F 0 7 9 0

Pro9.

7 x 1^A

bOrrAdo-SP 1

1. Enter programming mode.
2. Press 1^A 7 times.

3.2. PROGRAMMING OF ARTICLES

Follow these steps to programme articles on the scales.

* F 0 7 9 0

Pro9.

1

C. P.L.U. n. M.

C. 1P.L.U. 00 N .01. 0 M.

... X

C. 1P.L.U. 01 n.01. 0 M.

... X

C. 1P.L.U. 01 N.01. 3 C M.

... X

C. 1P.L.U. 01 PRI. 1.00

... X

C. 1P.L.U. 01 type 0

... X

1. Ensure that the scales are programmed as the MASTER (ADDRESS 0)
2. Enter programming mode with the following sequence * F 0 7 9 0.
3. Press 1. The code, P.L.U. and name of article to be edited will be shown.
4. Enter the **code** (5 digits) of the article. Press X to go to the next parameter.
5. Enter the associated **preset key** (1 to 64) using the number keys. Press X to go on to programme the name.
6. Enter the **name** of the article (maximum 20 letters) using the number/letter keys. Press X to go on to programme the price/kg.
7. Enter the **price** of the article (6 digits). To leave an article with a free price, assign 0 for the price.
Press X to go on to programme the section.
8. Enter the **item type**:
 0. Weighed.
 1. Not weighed.
 2. Weighed beef.
 3. Direct beef.
 4. Weighed minced beef
 5. Direct minced beef.
 6. Zero price.
 7. Negative price

Press X to go to the next parameter.

...X

C.	1P.L.U.	01
SECC.		0

9. Enter the **section** number (from 1 to 9) to which the article belongs.

This permits a list of sales ordered per section to be obtained and the possibility of using the section barcode in labels.

Press **X** to go on to programme the label format.

...X

C.	1P.L.U.	01
FORM.		0

10. Enter the **label format** for printing the information on this article. (Only models and K3X5, K38x) Enter a value between 1 and 5, corresponding to the 5 formats which can be programmed. (see *section. Label Design*)

Press **X** to go on to define VAT rate.

...X

C.	1P.L.U.	01
T.A.X.		5

11. Enter one of the 5 **V.A.T.** rates which can be applied to the article (see *section Programming VAT Rates*)

Press **X** to go on to programme expiry date

...X

C.	1 P.L.U.	01
BESTBEFORE		2

12. The **expiry date** of the article can be programmed in the following ways. (Only models K3X5 and K38x):

1. Exact date in ddmmyy format (day, month, year).
2. Number of days from the date the label is printed.

Press **X** to go on to define the *tare* associated to the article.

...X

C.	1P.L.U.	01
TARE		0.010

13. **Tare of article.** This field is for entering the tare associated to the product. There are two ways of entering this value:

1. Using the number keys.
2. Placing the recipient to be weighed on the platform and pressing **T**.

Press **X** to go on to define the *PLU texts*.

...X

C.	1P.L.U.	01
T 1.01.	0	M.

14. Enter the **texts** associated to the PLU ⁽¹⁾. Each article may have a total of 3 lines of text with a maximum of 24 characters per text, ingredients, or combination of text and ingredients. Press **V1** at this point to enter an end of line and move to next line when the label is printed. Press **PT** to enter an ingredient. To enter the next line, press **X** (Only models K-3X5 and K38x).

...X

C.	1P.L.U.	01
T 3.01.	0	M.

Press **X** to go on to define an *extra date*.

*

C.	1P.L.U.	01
b. EST.		2

15. Enter an **extra date** (best before, etc...). *The date is entered in the same way as that described in point 12.* (Only models K-3X5 and K38x).

Press ***** to save the article data. Go on to programme the next article, or press **F** to exit to the initial programming mode.

 (1) In scales with versions including Extra Article Texts (256 characters), the criteria for programming these texts are the same as the normal article texts.

3.3. PROGRAMMING VAT RATES

Each article programmed on the scales can be assigned one of 5 V.A.T. rates (see section Programming of Articles). The rate is defined as follows:

* F 0 7 9 0 Prog.

7 V.A.T. 1 00.00

... V.A.T. 1 08.00

* V.A.T. 2 00.00

1. Ensure that the scales are set up as the MASTER.
2. Type in the following sequence * F 0 7 9 0 to enter the programming mode.
3. Press 7 to select programming of VAT rates.

The VAT rate to be programmed will appear on the display.

4. Enter the desired percentage rate value using the number keys. Use C to make corrections.
5. Press * to memorise the value. Then programme the next rate. Press F to exit to the initial programming mode. (point 2).

3.4. PROGRAMMING OF TARES

The following operation should be carried out in order to assign the predefined tares:

* F 0 7 9 0 Prog.

T Prog. tar 1
 0.050

... * Prog. Tar 5
 0.000

... T Prog. tar 5
 0.020

*

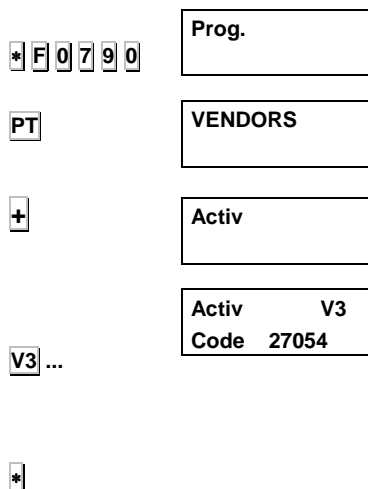
1. Ensure that the scales are set up as the MASTER.
 2. Type in the following sequence * F 0 7 9 0 to enter the programming mode.
 3. Press T to select programming of types of tare.
- The value of the first tare will be shown on the display.
4. Press * as many times as necessary until the display shows the corresponding tare to be programmed.
 5. Enter the value of the tare weight by placing the weight on the platform and pressing T, or by directly entering the required value with the number keys.

To correct any error, press C.

Press * to save the value and go on to programme the next tare (point 2). Press F * to exit to normal working mode.

3.5. SIGNING ON AND OFF OF SALES ASSISTANTS (VENDORS)

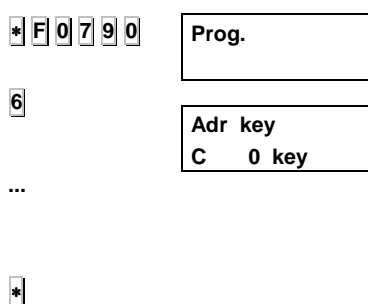
To allocate a memory key to each sales assistant (vendor), take the following steps:



1. Enter the following sequence: * F 0 7 9 0
2. Press **PT**
3. Press **+** to sign a sales assistant on (**-** to sign one **off**). Free sales assistant memory keys will flash on the display.
4. Press the sales assistant key to be modified and enter the 5 digit code to identify the sales assistant. Press *****.
5. Enter the sales assistant's name (max. 20 characters)
6. Press ***** to save the configuration and **F *** to exit to normal operation mode.

3.6. ASSIGNING PRESET KEYS

There is another way of assigning preset keys to the PLUs stored in the memory, without having to enter article programming (*section Programming of Articles*). To do this:



1. Enter the sequence: * F 0 7 9 0.
2. Press **6**.
3. Enter the article code using the number keys and press the preset key with which you wish to associate the article.

Press ***** to save the assignation and go on to programme the next preset key, or press **F** to exit to the initial programming mode (point 3).

4. CONFIGURATION OF PRINTER

Access to this type of programming is used to define the operation mode of the scales' printer. To do this:

* F 0 7 9 0
+

Prog.

X

P. Labelling
EH dist. 062

X

P. Labelling
Contrast 5

X

P. Labelling
LABEL Form. 2

X

P. Labelling
HEADline. 2

X

X

P. Labelling
Ticket End 2

P. Labelling
d.-Opt.-Cab. 22

Opto Read 202
FrontErA 175

1. Enter the sequence: * F 0 7 9 0.
2. Press +.
3. Enter the value of the BOTTOM MARGIN desired (ONLY MODELS K-3X5 and K38x) using the number keys (length of label beyond last printed line). Press X to save the assignment and to go on to the next parameter.
4. Enter the value of the CONTRAST desired using the number keys. Press X to save the assignment and to go on to the next parameter.
5. Enter the value of the GLOBAL LABEL FORMAT desired (ONLY MODELS K-3X5 and K38x). When this value is not zero, all articles are labelled with the label format defined in this parameter. When this parameter is set to 0, the articles are labelled with the label format defined in the article data. Press X to save the assignment and to go on to the next parameter.
6. Enter the value of the HEADER desired (ONLY MODELS K-3X5 and K-38X):
 - '0'- go back, without printing the header.
 - '1'- print blank header.
 - '2'- go back, and print the header.
 - '3'- print the header.

The option for going back the label will function only if Type of Paper (see Conf. 04) is set to 5.

Press X to save the assignment and to go on to the next parameter.

7. Enter the number of blank lines after the END OF RECEIPT desired using the number keys. Press X to save the assignment and to go on to the next parameter.
8. Enter the value of the TOP MARGIN required (ONLY MODELS K3x5 and K38x) using the number keys (separation between top of label and first printed line). Press X to save the assignment and to go on to the next parameter.
9. Enter the PAPER DETECTOR READING (ONLY MODELS K3x5 and K38x) with the number keys. By entering this number, the scales are informed of the value from which it is considered that there is a separation between labels.

To establish the number, proceed as follows:

2. Remove a label from its paper backing.
 3. Place the paper backing on the opto.
 4. Note the value recorded.
 5. Advance the paper until there is a label on the opto.
 6. Note the new value recorded.
 7. Calculate the average value and enter it (the optimum sweep value is 175)
10. Press * to save the configuration.

5. RECEIPT AND LABEL

5.1. RECEIPT DESIGN

The scale has the possibility of programming 15 heading lines, the first 8 lines (1 to 8) can be used as receipt headers, each with 13 or 26 characters, depending on letter size.

1. Ensure that the scales are set up as the MASTER and that the header parameter is at 1 (see section 6.8). The table below applies to all procedures thereafter:

Key	Function
F	Exit to programming mode.
C	Delete data
X	Print lines saved.
+	Go on to programme next data.
-	Go back to programme preceding data.
T	Insert blank line
◇	Centre text line.
*	Save line.



* F 0 7 9 0

L. 124

2

L. 204

...

+

L. 214

+

2. Enter the sequence: * F 0 7 9 0 to enter programming mode.

3. Press 2 to select programming of header lines.

The first flashing digit indicates the **line number** to be programmed.

Enter a number from 1 to 8, corresponding to the line to be edited: lines 1 to 4 are the receipt header above the time and date line; lines 5 and 6 come below the total customer sum line, and lines 7 and 8 come at the bottom of the receipt.

Press + to go on to programme the letter typeface.

4. Enter a number from 0 to 4 to programme the **letter typeface**, according to the following codes:
 - '0' - The line will not be printed on the receipt.
 - '1' - Normal letter typeface. 26 letters per line.
 - '2' - Double width typeface. 13 letters per line.
 - '3' - Double height typeface. 26 letters per line.
 - '4' - Double width and double height typeface. 13 letters per line.

Press + to go on to programme the contrast.

+ L. 204

L. 214 P.01 0 M.

* L. 304

*

* F 0 7 9 0

PLU Prog.

1 FOR. 0

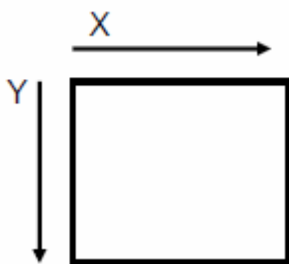
X FOR 1.
AN. 000 LA.000

...

X FOR 1.
AN. 432 LA. 000

...

* FOR 1.
AN. 432 LA.480



5. -The third digit given is the print contrast. Enter 4 for **high print quality** for receipt (default value).

Press **+** to go on to programme the contrast.

6. Enter the **text** of the corresponding line using the letter and number keys or by entering the character codes (see section 8.6).

The text on the line can be centred by pressing **0** after having entered the last character on the line.

7. Press ***** to save the programmed line. The next line can then be programmed, following the steps again, from point 4.

8. Press **F** to exit to the initial programming mode and then ****** to start normal working mode.

5.2. LABEL DESIGN

This mode of operation is only valid for **models K-3x5 and K-38x**. Follow the steps below to design one of the 5 label formats available:

(remember to press **F** if you wish to exit this mode of operation at any time)

1. Enter programming mode by typing the sequence: *** F 0 7 9 0**.

2. Press **PLU**.

3. Enter the number of the desired label format (a number from 1 to 5).

Press **X** to go on to define the label dimensions.

! Enter the data for the label width in terms of the scales' printer dots. To do this, multiply the values in millimetres by 8.

4. Enter the label width (X) in dots

! The maximum value is 432

Press **X** to go on to define the height of the label.

5. Enter the data for the label **height** (Y) in terms of the scales' printer dots.

! The maximum value is 606


6. Press *****

7. Use the number keys to enter the **Field** code which you wish to appear on the label (see table below)

If you are editing a format which has already been defined, press **+** or **-** to enter the field which you wish to modify.

Apartado	Descripción	Apartado	Descripción
1	Barcode (EAN 13)	69	Text line 9: "Date Packed"
2	Sum	70	Text line 10: "Expiry date"
3	Weight	71	Text line 11: "BEST BEFORE"
4	Time	72	Text line 12: "CASH TILL TALLY"
6	Price	73	Text line 13: "TOTAL"
7	Present date	74	Text line 14: "Peso Kg" or "UNITS"
8	Expiry date	75	Text line 15: "Total Pta."
9	Best before date	76	Text line 16: "Date packed:"
11	Amount	77	Text line 17: "Expiry date:"
12	Name	78	Text line 18: "TARE"
13	Text line 1 of article	79	Text line 19: "Batch number"
14	Text line 2 of article	80	Text line 20: "Preserve"
15	Text line 3 of article	81	Text line 21: "at -18°C"
16	Article Code	82	Text line 22: "in the fridge"
17	Header line 1	83	Text line 23: "OFFER"
18	Header line 2	84	Text line 24: "SAVING"
19	Header line 3	85	Text line 25: "DISCOUNT"
20	Header line 4	86	Text line 26: "Euro"
21	Header line 5	87	Text line 27: "Euro/kg." Or "Euro/Unit"
22	Header line 6	88	Text line 28: "Euro/Unit" or "Euro/kg."
23	Header line 7	89	Text line 29:
24	Header line 8	90	Text line 29:
25	Tare	91	Graphic line
27	Vendor's name	92	Logo
33	Section name	101	Header line 9
35	Text line 4 of article	102	Header line 10
36	Text line 5 of article	103	Header line 11
53	Price per unit in EUROS	104	Header line 12
54	EAN128	105	Vendor's Code
55	Euro exchange rate	106	Header line 13
56	Sum in Euros	107	Header line 14
58	Full date (01 MAY 2000)	108	Header line 15= Batch Number
61	Text line 1: "WEIGHT" or "UNITS"	110	Total weight
62	Text line 2: "PRICE"	111	Total sum
63	Text line 3: "SUM"	112	PLU code of totals
64	Text line 4: "Kg" or "-."	113	Number of operations
65	Text line 5: "Pta/kg." or "Pta/ Unit"	114	Text: "Total weight"
66	Text line 6: "Pta"	115	Text: "Total sum"
67	Text line 7: "WEIGHT" or "UNITS"	116	Text: "PLU code of totals"
68	Text line 8: "Pta/kg." OR "Pta/ Units"	117	Text: "Number of operations"

 **A maximum of 40 fields may appear on a label**

 **For Beef Traceability Label Fields, see *section Animal Programming (Beef Traceability)***

8. Enter the value of the X position of the field (distance from the left edge of the label). The maximum value is the programmed value of the width of the label.
9. Press the key **X** to pass to the next parameter.
10. Enter the value of the Y position of the field (distance from the top of the label). The maximum value is the programmed value of the height of the label.

Press the key **X** to pass to the next parameter.

A.01 X.000 Y.000
BAR CO R.0 T.01

11. Enter the type of Rotation of the text.
The different values permitted in the ROTATION parameter are:

- '0' – No rotation.
- '1' –90° rotation.
- '2' –180° rotation.
- '3' –270° rotation.

Press the key **X** to pass to the next parameter

...

X

...

0.01 X.010 Y.350
C Barr R.1 T.08

12. Enter the value of the LETTER TYPE.

The value of the letter type is programmed by entering a value from 0 to 29, where such a value indicates the typeface and letter size. Letter typefaces are as follows:

BASE TYPEFACE	SIZE (width x height)
0	12 x 17
20-40	16 x 28
60	16 x 32
80	6 x 9

To enlarge these typefaces by width or height or both, add the number shown in the following table:

ENLARGEMENT NUMBER	ENLARGEMENT
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

...

*

0.00
GRABAR

*

FOR. 1
GRABADO

F *

0.01
BORRAR

◇ ◇

! If you want to print a sample label while you are creating the label format, press **PT**

! If you want to print a list of all parameters programmed in the label format, press **PLU**

Press **+** or **-** to go forwards or backwards, respectively, to the next field. Press ***** to go to the next parameter, and after the last parameter in the field, the next field is commenced.

∅

A.65 ERASE

To delete a field which is not required, press **∅**. The display will request confirmation. If you wish to delete it, press **∅** again, but if you do not wish to delete it, press **C**.

A.00 LOAD

13. Finally, select the field with the code 00 and press ***** to save the format.

FOR. 1 LOADED

Press **F*** to exit programming mode.

5.2.1. Copying a format

-

FOR. 0

1. Select the format to be copied (*points 1, 2 y 3 in the previous paragraph.*)

-

FOR 1. An. 432 LA. 480

2. Press **-**.

FOR. 0

3. Type in the number of format in which it is to be copied.

FOR 2. An. 432 LA. 480

4. Press ***** until the format is copied.

5.2.2. Deleting a format

T

FOR. 0

1. Select the format to be copied (*points 1, 2 and 3 in paragraph. 5.2*)

FOR 1. An. 432 LA. 480

2. Press the **T** key.

FOR 1. An. 000 LA. 000

3. Press the **∅** key.

6. CONFIGURATION

Scales operations can be personalised according to instructions below, by assigning values as required to the configuration parameters.

6.1. DELETE ALL DATA FROM SCALES

* F 0 7 9 0

7 x X

+ 25

Prog.	
Start total	1

1. Press * F 0 7 9 0 to enter programming mode.

1. Press X 7 times and confirm the operation by pressing the key 25 to delete all data from scales. Press F or * to cancel deletion in progress.

! If the scales were programmed as SLAVE, when all data has been deleted, DATA WILL BE LOADED FROM THE MASTER, so that the slave will be a copy of the master, to serve as a back-up.

! **NOTE:** If you delete all data from the scales, you will lose the factory-programmed label formats. The data can be recovered by making a Restore of Data

Delete articles

* F 0 7 9 0

7 x 1

Pro9.	
bOrrAdO-ESP	1

This operative allows to delete only the articles, keeping all the other data.

1. Enter programming mode.
2. Press 1 7 times.

6.2. GENERAL CONFIGURATION

1. Ensure that the scales are programmed as the MASTER The following table is of application in all procedures that follow:

Key	Function
F	Exit to initial programming mode.
C	Delete data.
X	Print configuration.
XX ^Y	Direct access to parameter xx.
*	Save value and go on to next.

* F 0 7 9 0

4

...

*

...

*

Prog.	
GROUP	00
d.ISL.	0000

2. Enter programming mode with the following sequence * F 0 7 9 0.

3. Press 4 to enter programming mode of configuration parameters.

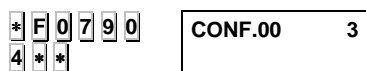
4. Enter the **group number** which the scales belong to (00 to 99). Press * to go on to programme the wholesalers' limit.

5. Enter the value (6 digits) of the quantity beyond which a customer shall be considered as a **wholesaler**.

Press * to save the data. To set up the other parameters, see the sections below.

6.2.1. Conf. 00: Barcode

The scales must be instructed whether a barcode should be printed, and when it should be issued:



- '0' - Barcode on receipt if the total sum is positive. (Default value)
- '1' - Barcode on receipt always. If the total sum is negative, the barcode will be zero.
- '2' - No barcode.
- '3' - Barcode on receipt always, with indication of absolute value of total sum.

...

To modify the value:

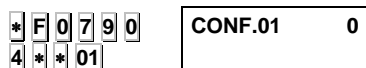
1. Ensure that the scales are set up as the MASTER. Enter the general configuration mode and search for parameter 00. (See section 6.2 CONFIGURATION)
2. Enter one of the values given above, e.g., 3.

*

Press ***** to save the parameter and go on to programme the next parameter.

6.2.2 Conf. 01: Calculation of change

This configuration determines whether or not the scales should calculate change due before the receipt is issued. To do this:



0. Enter general configuration mode and search for parameter 01 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

- 0 – **Without** change calculation. **With timer**. Default value.
- 1 - **With** change calculation. **With timer**.
- 2 - **Without** change calculation. **With rounding**. **With timer**.
- 3 - **With** change calculation. **With rounding**. **With timer**.
- 4 – **Without** change calculation.
- 5 – **With** change calculation.
- 6 - **Without** change calculation. **With rounding**.
- 7 - **With** change calculation. **With rounding**.

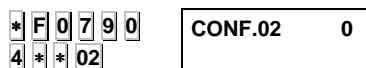
...

1. Enter the required value with the number keys.
2. Press ***** to save the modification..

*

6.2.3. CONF. 02: FIX THE TARE

This configuration determines if the user can fix the tare value by pressing **F**. To do this:



1. Enter general configuration mode and search for parameter 02 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

- '0' –Possibility for fixing the tare. (Default value)
- '1' –Non possibility for fixing the Tare.

...

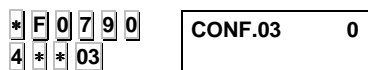
2. Enter the required value with the number keys.
3. Press ***** to save the modification.

*

6.2.4. Conf. 03: Fix price.Free price.Amount Zero

This configuration determines if the user can:

- Fix the price by pressing **F**. When **F** is pressed, the price entered on the scales will not be deleted when the product is removed from the platform)
- Leave the price of the articles programmed free for entering it manually
- Make operations with price 0.



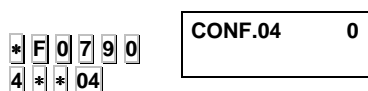
...



1. Enter general configuration mode and search for parameter 03 (see section 6.2 CONFIGURATION). The possible values have the following meaning:
 - 0** – Permits price to be fixed. Price cannot be freed, and 0 amount cannot be memorised.
 - 1** – Does not permit price to be fixed. Price cannot be freed, and 0 amount cannot be memorised.
 - 2** – Permits price to be fixed. Price can be freed, and 0 amount can be memorised.
 - 3** – Does not permit price to be fixed. Price can be freed, and 0 amount can be memorised.
2. Enter the required value with the number keys.
3. Press ***** to save the modification.

6.2.5. Conf. 04: Paper type

This configuration determines what type of paper the scales use. To do this:



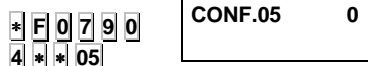
...



1. Enter general configuration mode and search for parameter 04 (see section 6.2 CONFIGURATION). The possible values have the following meaning:
 - Models K-3X0:**
 - '0' - Receipt (operations are grouped, pending request for total)
 - '1' – Receipt per operation (a receipt is issued for each operation)
 - Models K-3X5 and K-38X:**
 - '0' - Continuous paper, receipt mode.
 - '1' - Continuous paper, unit mode (a receipt is printed for each memorisation).
 - '2' - Continuous paper, unit receipt mode (a label is printed for each memorisation).
 - '3' – Label paper, receipt mode.
 - '4' - Label paper, unit mode.
 - '5' - Label paper, label mode.
 - '6' - Continuous adhesive paper, receipt mode.
 - '7' - Continuous adhesive paper, unit mode.
 - '8' - Continuous adhesive paper, label mode.
 - '9' - Continuous adhesive paper, label mode, without paper rewinder.
2. Enter the required value with the number keys.
3. Press ***** to save the modification.

6.2.6. Config 05: Permit Multiplication

This configuration determines whether or not the scales permit multiplication operations. To do this:



...



1. Enter general configuration mode and search for parameter 05 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

'0' – Multiplication permitted. (Default value)

'1' – Multiplication not permitted.

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.7. Config 06: Permit Addition

This configuration determines whether or not the scales permit addition. To do this:



...



1. Enter general configuration mode and search for parameter 06 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

0 – Addition permitted. Allows to work with direct price (Default value)

1 – Addition not permitted. Allows to work with direct price.

2.– Addition permitted. Does not allow to work with direct price.

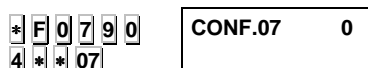
3.– Addition not permitted. Does not allow to work with direct price.

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.8. Config 07: Permit subtraction

This configuration determines whether or not the scales permit subtraction. To do this:



...



1. Enter general configuration mode and search for parameter 07 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

'0' – Subtraction permitted. (Default value)

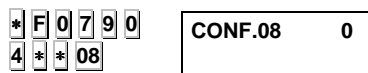
'1' – Subtraction not permitted.

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.9. Config 08: Permit subtotal

This configuration determines whether or not the scales permit operations to be revised. To do this:



...



1. Enter general configuration mode and search for parameter 08 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

'0' – Revision of receipt permitted (Default value).

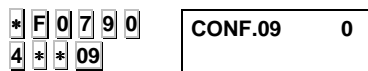
'1' – Revision of receipt not permitted.

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.10. Config 09: Send receipt to computer

Con esta configuración determinamos si la balanza permitirá o no **enviar los tickets al ordenador**. Para ello:



...



This configuration determines whether or not the scales send receipt to the computer. To do this:

1. Enter general configuration mode and search for parameter 09 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

'0' - Receipts are sent to the computer.

'1' - It sends the receipts to the computer when the following sale operation is stored.

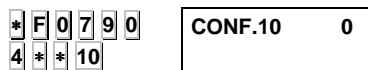
'2' - The receipts are sent to the computer immediately (the receipt cannot be reopened).

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.11. Config 10: Sale per grams or kilograms

This configuration determines whether the lists show unit sales in grams or kilograms. To do this:



...



1. Enter general configuration mode and search for parameter 10 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

'0' – Sale unit in grams.

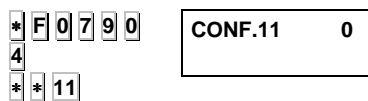
'1' – Sale unit in kilograms.

2. Enter the required value with the number keys.

3. Press to save the modification.

6.2.12. Config 11 : Cash Receipt

This configuration determines the printing of the Cash Receipt. To do this:



...



*

1. Enter general configuration mode and search for parameter 11 (see section 6.2 CONFIGURATION). The four possible values have the following meaning:

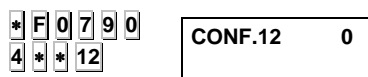
- '0' – No Cash receipt is issued.
- '1' – Cash Receipt is issued but the barcode is printed on the receipt.
- '2' – Cash Receipt is issued and the barcode is printed on the tally.
- '3' – Cash Receipt is issued and the barcode is printed on the receipt and on the tally.

2. Enter the required value with the number keys.

3. Press * to save the modification.

6.2.13. Config 12: Cash Receipt distance

This configuration determines the distance between the receipt and the cash receipt. To do this:



...

1. Enter general configuration mode and search for parameter 12 (see section 6.2 CONFIGURATION). The 10 possible values have the following meaning:

- '0' – The Cash Receipt is issued when * is pressed, or 10 seconds later.
- '1' to '9' – Number of blank lines between the receipt and the cash receipt.

2. Enter the required value with the number keys.

3. Press * to save the modification.

*

6.2.14. Config 13: Print VAT on the receipt

This parameter activates and deactivates the printing of VAT. To do this:



...

1. Enter general configuration mode and search for parameter 13 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:

- '0'– The VAT is printed on the receipt.
- '1'– The VAT is not printed on the receipt.

2. Enter the required value with the number keys.

3. Press * to save the modification.


*


6.2.15. Config 14: EAN 13 format

This configuration determines the content of the barcode (especially designed by the user in sections 6.2.18 and 6.2.19, or the barcode provided by default) which is printed on the receipt and label.

Both are texts with 12 positions for letters and numbers, which are programmed in the same way as the text of the headers and the article name; numbers are symbolised directly in the barcode, and letters have the following meaning:

Code	Representation on the barcode	Code	Representation on the barcode
A	Group Number	H	Weight
B	Customer Number	I	VAT Rate
C	Article Code	K	Section
D	Employee's Code	L	Manufacturer's Code
E	Total Sum of Receipt	Q	Control Check
F	Sign of Sum	Y	Total in Secondary Currency
G	Number of Articles		

 The barcode provided by default on the receipt and label is: **'2AABBBBEEEEE'**

 If the sum total is greater than the number of digits, the barcode is not printed.

* F 0 7 9 0
4 * * 14

CONF.14 0

To programme the barcode:

1. Enter general configuration mode and search for parameter 14 (see section 6.2 CONFIGURATION). The 4 possible values have the following meaning:

'0' – Default value.

'1' – Special format for the receipt and default value for the label.

'2' – Special format for the label and default value for the receipt.

'3' – Special format for the receipt and label.

'4' – Section format for the label and default value for the receipt (valid for models K-3X5 and K-38X).

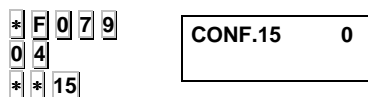
'5' – Section format for the label and special format for the receipt (valid for models K-3X5 and K-38X).

2. Enter the required value with the number keys.

3. Press  to save the modification.

6.2.16. Config 15: Show tare weight

This parameter is used to set up the scales to show the weight value on the tare display, or not to show it. To do this:



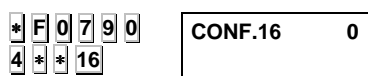
...

[*]

1. Enter general configuration mode and search for parameter 15 (see section 6.2 CONFIGURATION). The two possible values have the following meaning:
 '0' – The weight value is shown on the tare display.
 '1' – The weight value is not shown (**NET** is shown).
2. Enter the required value with the number keys.
3. Press [*] to save the modification.

6.2.17. Config 16: Type of meat control

This parameter is used to determine the mode in which the animal type will be controlled:



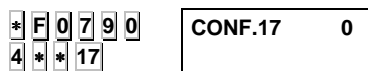
...

[*]

1. Enter general configuration mode and search for parameter 16 (see section 6.2 CONFIGURATION). The possible values have the following meaning:
 '0' – Manual Mode.
 '1' – Automatic Mode.
2. Enter the required value with the number keys.
3. Press [*] to save the modification.

6.2.18. Config 17: Printing of sales assistant code on receipt

Here, the scales are set up to show the sales assistant name and code on the receipt, or not:



...

[*]

1. Enter general configuration mode and search for parameter 16 (see section 6.2 CONFIGURATION). The possible values have the following meaning:
 '0' – The sales assistant's name and code are not printed.
 '1' – The sales assistant's name and code are printed.
2. Enter the required value with the number keys.
3. Press [*] to save the modification.

6.2.19. Conf. 18: Join texts

This parameter only applies to models which belong to the series **K-3X5, K-38X**. It determines the way of printing of the text lines.



[*]

1. Enter general configuration mode and search for parameter 17 (see section 6.2 CONFIGURATION). The possible values have the following meaning:
 0. Texts not joined: each text line is printed in the position programmed in the label format.
 1. Joint texts: the text lines containing ingredients from the internal Table are printed one after each other on the label.
2. Press [*] to save the modification.

6.2.20. CONF. 19: FORMAT EAN-128

(Only for K- 3X5 models)

This parameter determines which will be the EAN 128 printed in the labels.

* F 0 7 9 0
4 * * 19

CONF.19 0

1. Enter general configuration mode and search for parameter 19 (see section 6.2 CONFIGURATION). The possible values have the following meaning:

0 - Global EAN128 (Default Value).

1 – Section EAN 128

2. Press * to save the modification.

*

6.2.21. Conf. 20: Timer for total

This parameter determines the time that the scale will show the total on the display after printing the ticket.

* F 0 7 9 0
4 * * 20

CONF.20 0

1. Enter general configuration mode and search for parameter 16 (see section 6.2 CONFIGURATION). The possible values have the following meaning:

0. The total is shown during **10 seconds** (Default value).

1 – 9. The total is shown during 1...9 seconds.

2. Press * to save the modification.

*

6.2.22. Conf. 80: Receipt barcode

This parameter is only available in the programming mode if the current value of parameter 14 is greater than 0 (see section 6.2.14).

The parameter permits a special barcode design for the receipt. To do this:

* F 0 7 9 0	CONF.80 01.0m.
4 * * 18	25BBBBBEEEE

*

*

1. Enter general configuration mode and search for parameter 80 (see section 6.2 CONFIGURATION).
2. Enter the EAN 13 format as required (12 letters or numbers) as per the table in section 6.2.14. Use the letter and number keys or character codes (see section 7.4)
3. Press to save the modification.

6.2.23. Conf. 81: Label barcode

This parameter is only available in the programming mode if the current value of parameter 14 is greater than 0 (see section 6.2.14).

The parameter permits a special barcode design for the label. To do this:

* F 0 7 9 0	CONF.81 01.0m.
4 * * 18	25BBBBBEEEE

* *

*

1. Enter general configuration mode and search for parameter 81 (see section 6.2 CONFIGURATION).
2. Enter the EAN 13 format as required (12 letters or numbers) as per the table in section 6.2.14.
3. Press to save the modification.

6.3. PROGRAMMING IN EUROS

DIBAL Series K scales are prepared for the Euro transition in countries where EURO is not yet the national currency.

The Plan for the Transition to the Euro approved envisages implementation in the following phases:

PHASE 0 the Euro exchange rate is programmable. Member states' national currencies are used primarily, with the Euro as a secondary currency.

PHASE 1 the Euro exchange rate is fixed. Member states' national currencies are used primarily, with the Euro as a secondary currency.

PHASE 2 national currencies move back to secondary status and the Euro becomes the primary currency in all countries involved.

PHASE 3 the Euro becomes the sole currency.

Once the scales is set to the right Euro phase, it will be able to work and issue receipts in Euros. Remember:

The steps for programming the Euro/national currency exchange rate are as follows:

* F 0 7 9
0

Prog.

0
* * * *

EURO = .115343

*
...

EURO 1

*

FASE 1

0 7 8 1
6 0 2 2
9 8 0 8

FASE 2

F & 3

1. Enter the sequence * F 0 7 9 0
2. Press 0 and then press * four times.
3. Check the Euro/ local currency exchange rate and press *.
4. Enter '0' if you do NOT want transaction data to appear or be printed in Euros, and '1' if you do want them in Euros.
5. Press * to confirm the data. The Euro Phase for which the scales is set will be displayed.
6. To move on to the next phase enter the following code:

Phase 0 – Phase 1 ⇒ 0 7 8 1

Phase 1 – Phase 2 ⇒ 6 0 2 2

Phase 2 – Phase 3 ⇒ 9 8 0 8

7. Repeat the code

<p>! To display and print information in Euros, hold down F while in normal operating mode and press 3</p>

<p>! To return to an earlier phase, contact Dina's Technical Service Department.</p>

6.4. CURRENCIES

This section sets the two currencies in which the scales will print.
The currencies available are:

Code	Currency	DESCRIPTION
0	Skr	SWEDISH KRONER
1	Y	JAPANESE YEN
2	Nkr	NORWEGIAN KRONER
3	L	STERLING POUND
4		EURO
5	\$	US DOLLAR
6	Sw F	SWISS FRANC
7	Dkr	DANISH KRONER
8	HUF	HUNGARIAN FORINT
9	PLN	POLISH ZLOTYCH

To change the currencies on the machine, proceed as follows:

* F 0 7 9 0	Prog.
9 ...	VAL. 1 -
* ...*	VAL. 1 EURO 9
F *	VAL. 2 -

1. Ensure that the scales is configured as a Master, and key in the sequence * F 0 7 9 0 to enter programming mode.
2. Press 9
3. Enter the code for the currency which is to appear first.
4. Press * to save the data and move on to the next currency.
To move from one currency to another press * again.

Press F * to exit programming mode.

6.5. CURRENCY EXCHANGE

To programme the exchange rates for the various currencies, proceed as follows:

* F 0 7 9 0	Prog.
8	CHANGE 0 DM 0.000
...	CHANGE 00 DM 0.000
*	CHANGE 01 NLG 0.000
F *	

1. Enter programming mode by keying in * F 0 7 9 0.
2. Press 8
3. Use the number keys to select the rate for each currency, using the currency codes shown in the table in subsection 6.2 above.
4. Press * to save the data and move on to the next currency.
5. Press F and * to exit programming mode.

6.6. DEFINING SECTIONS

This section shows how to allocate a 20-character name to each of the 10 sections, and the bar code format (EAN13 or EAN128) to be associated with them.

* F 0 7 9 0 0	Prog.
0	SEC. 0 01 0M N.
...	SEC 1 05 1M. N.FRUT
*	
*	SEC. 1 12 1M. ECCCCBBBBB
...	
*	

1. Enter programming mode by keying in * F 0 7 9 0.
2. Press 0. The current name of section 0 will appear. The number beside the section number shows the position of the character in the name to be edited.
3. Enter a number from 0 to 9, corresponding to the section to which a name is to be allocated. Press * to move on to entering the name via the alphanumerical keyboard.

Press 0 at the end of the line to centre the text.

4. Press * to move on to enter the bar code format associated with the section.
5. Enter the bar code format associated with the section as shown on the following table:

Code	DESCRIPTION	Code	DESCRIPTION
A	Group number	G	N° of items
B	Customer number	H	Weight
C	Item 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

6. Press * to move on to enter the EAN128 barcode format associated with the section.
7. **Edition of EAN128** (see paragraph Edition of EAN 128)
8. Press * to save the data and program next section.
9. Press F * to leave the programming.

6.6.1. EDITION OF EAN 128

The structure of an EAN 128 is as follows:

START + FNC1+ IA→DATA + IA→DATA+.....

where:










START (start A, start B or start C) is the special character that indicates that the characters that follow form part of an EAN 128 code. Likewise:

A indicates that capital letters and standard characters follow.

B indicates that capitals, small letters and special characters follow.

C indicates that digits follow (this is the most common for numerical data). In this case each pair of digits is represented by a character. This compresses the EAN 128 as much as possible.

IMPORTANT: In set C, the number of digits contained in the data must be even.

Char	Meaning	Obtained:
	Start A	<PT> +<0>
	Start B	<PT> +<1>
	Start C	<PT> +<2>
	Change A	<PT> +<3>
	Change B	<PT> +<4>
	Change C	<PT> +<5>
	Change	<PT> +<6>
	FNC1	<PT> +<7>
	STOP	<PT> +<8>

IA is a number that represents the application ID (barcode field), i.e. it specifies the data to be represented by the EAN 128. The following **IAs** can be used:

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)	Minum 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

USER'S MANUAL

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

where:

- (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.

DATA represents the data that will be printed followed by the corresponding **IA**. Letters may be entered in the numerical field positions, and these will be substituted when printed by the corresponding value stated in the table given below:

Code	Meaning in barcode	Code	Meaning in barcode
A	Group Number	U	Packing Date
B	Receipt Number	V	Best Before Date
C	Item Code	Y	Total secondary Currency
D	Employee Code	Z	Control Digit for the AI's which need a control digit not depending on the data included in the calculation. Valid for AI's 00, 01, 2, 410, 411, 412, 413, 414 (EAN 128)
E	Sum Total for Receipt		
H	Weight		
J	Batch Number		
L	Manufacturer's Code		
Q	Control Check		

The length of the data depends on the **IA**. Some fields are of a fixed length and others are variable. All positions must be completed in fixed-length fields.

If not all the positions are completed in variable-length fields, the **FNC1** character must be entered at the end in order to indicate end of field.

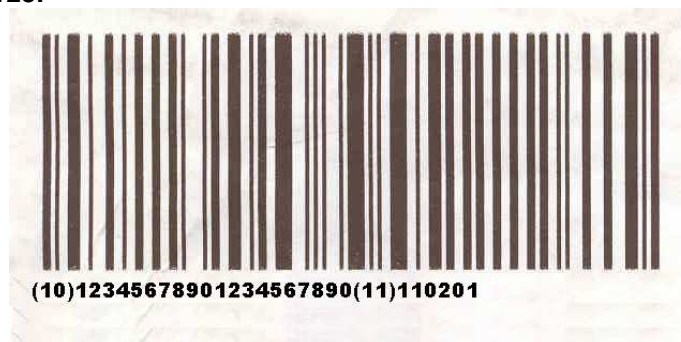
CHANGE (Change A, Change B and Change C) is a special character that permits the code type to be changed within an EAN 128. Therefore, when a change character is encountered, the EAN 128 will be printed with the new code specified until another change character is encountered.

The Change character only makes a change between sets of A and B characters and only affects the following character found after the Change character.

IMPORTANT: If IA 10 is used (batch number) it is not necessary to include the data field after the identifier, LP2550 automatically inserts the batch number of the machine.

It is not necessary to enter a STOP character. The K-3XX automatically enters a STOP character when a **space** is found instead of an application identifier.

EXAMPLE OF EAN 128:



This barcode was programmed as follows:

START C + FNC1 + identifier + DATA + identifier + DATA

(PT + 2) + (PT + 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.

(PT + 2) + (PT + 7) + (10) + (1234567890 + (PT + 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:

(PT + 1) + (PT + 7) + (10) + (ABCD + (PT + 5) + 1234 + (PT + 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.

6.7. STABILITY

* F 0 7 9 0	Prog.
0	
...	
	STAB 2
*	

This parameter sets the tolerance of the scales to vibration or oscillation in weight. To configure the stability of the scales:

1. Enter programming mode by keying in * F 0 7 9 0.
2. Press 0
3. Enter a number from 0 to 5. The higher the number, the stricter the stability criterion. Press * to save and F * to exit.

6.8. HEADER LINES IN LISTS

* F 0 7 9	Prog.
0	
0	
*	
...	
*	HEADli 0

This parameter determines whether the scales prints header lines on list.


1. Enter programming mode by keying in * F 0 7 9 0.
2. Press 0.
3. Enter:
 0. not to print headers
 1. to print.
4. Press * to save and F * to exit.

6.9. DATE & TIME ADJUSTMENT

* F 0 7 9 0	Prog.
3	
...	
	CLOCK 07.11.00 16.55.38
*	
F *	

To adjust the date and time proceed as follows:

1. Ensure that the scales is configured as a Master, and key in * F 0 7 9 0 to enter programming mode.
2. Press 3 to select clock programming.

 The display will show the date and time in 'ddmmaa' and 'hmmss' format.

3. Press + or - to select the digit to be edited. The clock can be stopped and started by pressing X.

Enter the desired digit via the number keys.

4. Press * to save the data. To return to initial programming status press F, followed by * to return to normal working mode.

6.10. PROGRAMMABLE DATE FORMAT FOR LABELS

This parameter can only be programmed in masters.

To programme the labels:

* F 0 7 9 0

8

Prog.

FORMAT
DATE 04

1. Enter the sequence * F 0 7 9 0 to enter programming mode.
2. Press 8
3. Enter a number between 0 and 24, as given in the table:

No.	description	No.	description	No.	description	No.	description
0	D/M1/A1	7	D/A2/M1	14	A1/M2/D	21	M1/D/A1
1	D/M1/A1	8	D/A2/M2	15	A2/M1/D	22	M1/D/A2
2	D/M1/A2	9	A1/D/M1	16	A2/M2/D	23	M2/D/A1
3	D/M2/A1	10	A1/D/M2	17	M1/A1/D	24	M2/D/A2
4	D/M2/A2	11	A2/D/M1	18	M1/A2/D		
5	D/A1/M1	12	A2/D/M2	19	M2/A1/D		
6	D/A1/M2	13	A1/M1/D	20	M2/A2/D		

A1 ⇒ Year with two digits (04 indicates 2004).

A2 ⇒ Full year (2004).

D ⇒ Day (always with two digits).

M1 ⇒ Month with two digits (11 indicates November).

M2 ⇒ Month in letters (November).

* F 0 0 0 0


X

LISTING

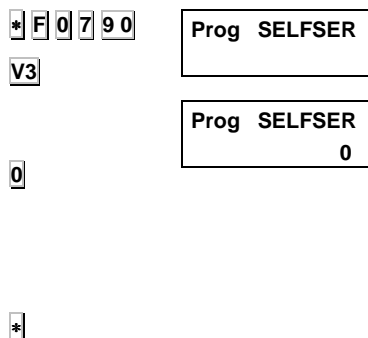
6.11. LIST ACCESS PASSWORD

The password for list access can be changed as follows:

1. Press * and F and enter the existing list access password (0 0 0 0 by default).
2. Press X. Enter a new 4-number list access password.

 **If you have forgotten the original access code, call the supplier or technical assistance service for your scales.**

6.12. SELF-SERVICE MODE



 **This working mode is only valid for the K-3X5 model.**

To programme this mode:

Enter programming by keying in *F0790.

Press V3.

The possible values are:

0 - normal mode (not Self-service).

1 - Self-service mode.

Operation:

Place the product to be weighed on the tray.

Press the key with the corresponding number.

The label will be printed.

2 - Self-service mode with memorisation of the PLU:

Operation:

The item is memorised until another PLU key is pressed.

To print the label you must press X

3 - Self-service mode 3:

Operation:

Use + to program the time (between 0 and 9) we have to type the code of the item.

Depending on whether the weight on the tray exceeds or not the value of the tare field of the item:

If the weight is greater than the tare:

The item is weighed,

With the Price = price of the item and to print the label press *.

If the weight is less than the tare the item is unitary, with the Price = price 2 of the item (it substitutes the best before date), enter the number of units and to print the label press *.

If, during the operation, the weight varies enough to alter the condition of being greater or less than the tare, the item goes from weighed to not weighed or vice versa.

If, once the item code is entered, the scale does not alter its state for ten seconds, the operation will be deleted from the screen.

C cancels the operation.

4 - Self-service mode 4

Operation

Use + to program the time (between 0 and 9) we have to enter the item code.

Depending on whether the PLU is weighed or not, we have to:

In the case of a weighed PLU:

Place the weight on the tray.

Type the digits of the PLU.

Press * to print the label.

In the case of an Unweighed PLU:

Type the digits of the PLU.

Type the number of pieces.

Press * to print the label.

C cancels the operation.

Press * to save the change made.

6.13. AUTOMATIC WEIGHTING MODE

 **This working mode is only valid for the K-3X5 model.**

When this option is activated and the article is fixed with the **F** key, every time there is a stable weigh a label will be printed:

*** F 0 7 9 0**

V4

Prog AutO Ue

1. Enter in programming with the following sequence *** F 0 7 9 0**.

2. Press the key **V4**.

3. Key in:

Prog AutO Ue
1

0. There is not automatic weighing.

1. There is **automatic weighing. The totals label accumulates the sales of a single article.** If the article is changed, the accumulated of the totals label is cleared.

2. There is **automatic weighing. The totals label accumulates all the sales made although the article is changed.** The accumulated are cleared after issuing the totals label.

4. Press the ***** key to save the change.

I

6.13.1. OPERATIVE IN AUTOMATIC WEIGHING

VX

1. Choose the vendor by pressing its key **Vx**

I


2. Select the PLU.

F

3. Fix the PLU with the **F** Key.

4. Every time there is a stable weigh a label will be printed.

6.13.2. TOTAL LABELS

 **Only valid for K-3x5 scales working in Automatic Weighing mode.**

In case that the scale is programmed so, it is accumulated on the same vendor all the totals for **weight, amount and number of operations** correspondent to a single PLU or to different ones.

The totals label must be programmed in format 5 (see *Label Design*).

SHIFT T

To print a totals label:

Vx

1. Press the **SHIFT** key and then press the **T** Key.

2. Press the correspondent vendor key **Vx**.

3. To leave press the ***** key.

7. COMMUNICATIONS

Some **Series K** scales can be connected to other scales or to a PC (to check whether yours is among them see section Characteristics of the K series scales).

The scales network thus formed consists of one MASTER SCALES (address 0) and up to four SLAVE SCALES.

! Receipts for operations registered on one scales in the network can also be printed on any of the others.

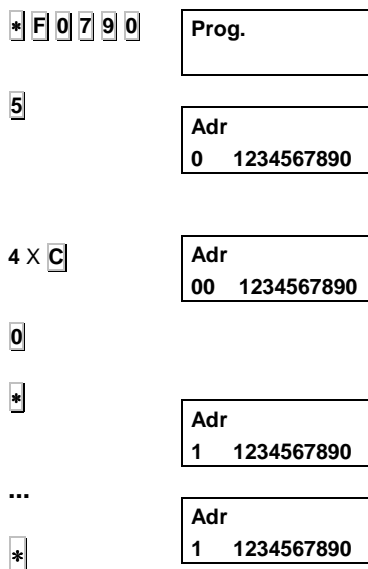
The scales to which **address 0** is assigned is the **MASTER**. This scales can also be connected to a PC to upload data for processing by a data management program.

The scales to which **addresses 1 to 4** are assigned are **SLAVES**.

! The network may NOT have 2 scales with the same address.

7.1. MASTER OR SLAVE CONFIGURATION

Communication between MASTER and SLAVE scales is via a 6-core cable connected pin to pin at pins 1, 2 and 5 (RS-485 transmission protocol). This cables should not be longer than 1000m.



To configure a scales as MASTER or SLAVE, proceed as follows:

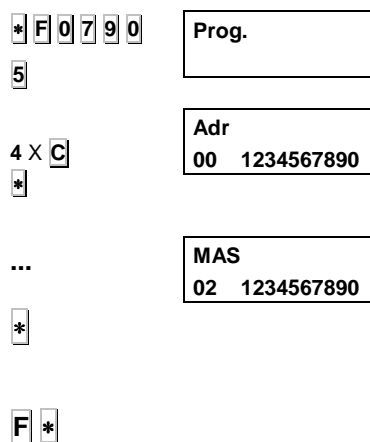
1. Key in * F 0 7 9 0 to enter programming mode.
2. Press 5 to select scales address programming.

The display will show the current address of the scales.
3. Press C 4 times.
4. Press 0 to make the scales a MASTER. Press * and the numbers of the slave scales connected will flash on the display.
5. To give a scales Slave status, enter an address from 1 to 4 by pressing a key from 1 to 4.
6. Press * to save the new address of the scales. Press F * to exit.

! SLAVE SCALES MUST NOT BE USED WHILE THE PROGRAMMING OF THEIR MASTER SCALES IS BEING CHANGED.

7.2. PC CONNECTION CONFIGURATION

To configure the scale for PC connection, proceed as follows:



1. Key in *** F 0 7 9 0** to enter programming mode.
2. Press **5** to select scales address programming.
3. Press **C** 4 times.
Press *****
4. A master address must be assigned to it so that it will be recognised by the computer in the network. Enter a 2 digit even number between 00 and 98. Press ***** to save the address of the scales.
5. Press **F ***

The models K-335 and K-38x are always configured as master

7.3. PC COMMUNICATION PARAMETERS

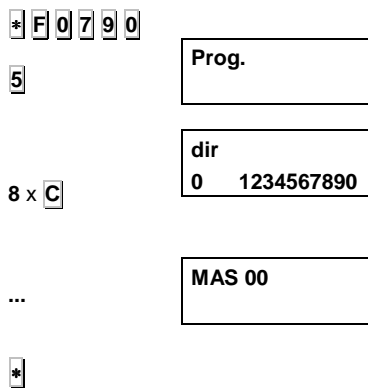
There are 6 parameters for communication between the scales and computer, which can be varied to suit the different protocols used.

The overall value of these parameters is represented by a 6-digit number, in which the digits represent the following (from left to right):

- 1°. TA: Max. response time: between 0 and 9 (see table on next page)
- 2°. TB: max. block transmission time: between 0 and 9 (see table on next page)
- 3°. TC: max. line busy time: between 0 and 9 (see table on next page)
- 4°. TD: Addressing wait time: between 0 and 9 (see table below)
- 5°. Number of bits. The possible values are:
 - 0 - 7 bits, parity even
 - 1 - 8 bits, parity even
 - 2 - 7 bits, no parity
 - 3 - 8 bits, no parity
 - 4 - 7 bits, parity odd
 - 5 - 8 bits, parity odd
- 6°. Baudrate (in bauds):

Number	TA	TB	TC	TD	Bits Nr.	Baud Rate
0	0.50	0.50	0.50	15.00	7 / par	9600
1	0.10	0.10	0.10	1.00	8 / par	4800
2	0.20	0.20	0.20	2.00	7 / no	2400
3	0.30	0.30	0.30	3.00	8 / no	1800
4	0.60	0.60	0.60	6.00	7 / impar	1200
5	1.00	1.00	1.00	10.00	8 / impar	600
6	2.00	2.00	2.00	20.00		300
7	3.00	3.00	3.00	30.00		150
8	6.00	6.00	6.00	60.00		110
9	10.00	10.00	10.00	Disabled		19200

In case of Ethernet communication, the Ethernet parameter is set to one, then baudrate will be fixed to 38400 bauds. This speed cannot be modified



Prog.

dir
0 1234567890

MAS 00

The communication parameters can be configured as follows:

1. Key in * F 0 7 9 0 to enter programming mode.
2. Press 5 to select scales address programming. The numbers of the slave scales connected to the master will flash on the display.
3. Press C eight times. The old set of parameters will flash on the left of the new ones.
4. Enter the new set of values directly via the number keys.
5. Press * to save the new set of values.

7.4. COMMUNICATIONS CABLES

! Master scales connection to PC is via an 6-pins cable, (RS-232). This cable is also used for backup of the scale (LBS)

PC (DB-9)	SCALE (6 PINS)
2	3
3	4
5	5

! The length of this cable can not be bigger than 3m

! Master scales / PC connection is via an 8-core cable with the following connections:




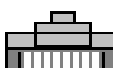
PC (DB-9)	SCALES (8 PINS)
2-----	1
3-----	2
5-----	3

The cable between the computer and the scales should be no more than 3 m long (15').

! The connection cable between the communications adapter (RS232/RS422) and master scales is:

ADAPTER (6 PINS)	SCALE (8 PINS)
1	8
2	6
3	7
4	4
5	5

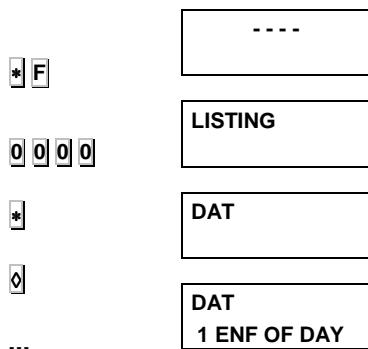
! For Ethernet communications (Master-PC), the scales will use standard Ethernet cables

COMMUNICACIÓN	CONNECTOR
RS-232 RMS	8 
RS-422 (external adapter) RMS	8 
RS-232 RMS, LBS, TELECHARGE	6 
Ethernet (optional)	 1 8

7.4. SENDING DATA TO A PC

The scales connected to the computer can send the data of sales (receipt or label) as soon as they are printed (online).

To send data accumulated in the memory of the Master scales to the PC, proceed as follows:



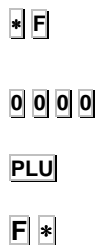
1. Ensure that the scales in question is the Master, and press * and F
2. Enter the list access code (0 0 0 0 by default).
3. Press * to enter lists.
4. Press 0.
5. Press the key for the operation desired, as per the table below:

Key	Function
1	Send end of day w/o erasing totals.
2	Send end of day erasing totals.
3	Request start of day.
4	Request files
6	Send stock inventory to PC
7	Send stock inventory to PC & delete from scales (
F	Enter lists


6. To perform any of the operations under keys 5, 6 and 7 the relevant key must be pressed again.

7.6. ARRANGE PLUS

Do the following to arrange the stored items:



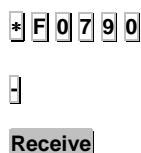
1. Ensure the scale is a MASTER and press * and F
2. Enter the access code to lists (0 0 0 0 by default).
3. Press PLU.
4. Press F and *

 On entering lists the items are automatically arranged.

7.7. LOADING ITEMS (L.B.S.)

This mode enables you to send the data programmed in the scale to a PC or load data from the PC to the scale.

The mode of operation is as follows:



1. Enter programming.
2. Press -.
3. In the LBS program, select the option **Receive** or **Send**

* F 0 7 9 0

3^C

...

*

Prog.

*

ConF dEF.

F 1

ConF dEF. T

reStoring

Prog.

* F 0 7 9 0

V5

...

*

Prog.

* F 0 7 9 0

V5

...

*

Ventana
Gramos 20

FabrIC 0

FabrIC 1234567

8. APPENDIX

8.1. RESTORING DEFAULT VALUES

This option enables you to **replace the factory settings** in programming of **Printer/Communications/ Configuration/Label Format/Ingredients**.

Press the **key** sequence * F 0 7 9 0 to enter programming.

Press 3^C

Select the function to be restored in accordance with the following table:

- 1 – **Printer** (it restores the default parameters).
- 2 – **Communications** (9,600 bauds/8 bits/even parity).
- 3 – **Configuration** (it restores the default values).
- 4 – **Label Format** (it restores the factory format).
- 5 – **Ingredients** (they are restored using the language of the program).
- T – **All** (it restores the 5 possible options).

Press \square to confirm.

The scale will display the message **Restoring** while the process lasts.

You will finish in programming. To quit, **press** *

8.2. SEGMENT TEST

A segment test on the scales display can be run: all display segments should light up if **F** is held down and **1** is pressed.

8.3. WEIGHT WINDOW

Any change in weight within this margin will not show up on the display until the weight is stable.

1. Enter programming.
2. Press **V5**
3. Type the required value.

8.4. MANUFACTURER CODE

This is a 7 digits code which can be printed in the labels. To program it.

1. Press * F 0 7 9 0
2. Press the **0** and 3 times *****.
3. Press **C** and then enter the now value.
4. Enter the code
5. Press the key *****

8.5. SUMMARY OF ACCESS TO PROGRAMMING FEATURES

To access programming features, key in * F 0 7 9 0 , followed by the relevant key as shown in the table:

Key	PROGRAMMING FEATURE
0	EURO phase, Stability, List headers, Inventories
1	Item programming
2	Header line programming
3	Clock setting
4	General Configuration
5	Addressing of scales
6	Assigning of preset keys
7	VAT rates
8	Currency exchange
9	Printing in different currencies
+	Printer
-	Remote loading of articles, formats, ingredients, configuration
X	Total Deletion
T	Programming of tares
PLU	Label formats
PT	Programming of sales assistants
◇	Sections
V2	Programming of Traceability
V3	Self Service Mode
V4	Automatic Weighing
V5	Weight Window
1^A	Articles Deletion
3^C	Restore of Default data
8^H	Date format for Labels
*	EXIT

8.6. REPLACING THE PAPER IN THE PRINTER

To replace the paper in the printer, proceed as follows:

On models **K-3x0** (receipt paper only):



1. Remove the weighing platform by lifting it from the right as shown in the photo.
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 described in point 1.

Models **K-3x5** can operate with continuous paper, adhesive labels or continuous adhesive paper.



To replace **continuous paper**:

1. Remove the weighing platform by lifting it from the right as per point 1 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.



To work in receipt mode, configuration parameter 4 (see section 6.2.4 above) must be set to 0.

To replace **adhesive paper**:



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.



To work in label mode, configuration parameter 4 (see section 6.2.4 above) must be set to 5.

8.7. CHARACTER CODES

The table below shows all the letter codes required to programme item names and the texts for the receipt header lines.

- Characters can be entered directly from the alpha-numeric keyboard
- Special characters (see table below) are programmed by pressing **V5** before entering the character code and **+** afterwards.
- Numbers (e.g. telephone numbers) can be entered by pressing the relevant number keys (key-pad on right).
- Press **+** and **-** to select the position where a character is edited.
- Press **32** to switch between capitals and lower case letters.
- Press **c** to delete a character.
- Press **⌀** to centre the line edited.

Character.	Cod.	Character.	Cod.	Character.	Cod.
' '	0	'4'	34	'r'	68
'A'	1	'5'	35	's'	69
'B'	2	'6'	36	't'	70
'C'	3	'7'	37	'u'	71
'D'	4	'8'	38	'v'	72
'E'	5	'9'	39	'w'	73
'F'	6	'@'	40	'x'	74
'G'	7	'!'	41	'y'	75
'H'	8	'"'	42	'z'	76
'I'	9	'#'	43	'>'	77
'J'	10	'\$'	44	'<'	78
'K'	11	'%'	45	'?'	79
'L'	12	'&'	46	'^'	80
'M'	13	'/'	47	'+'	81
'N'	14	'('	48	'<'	82
'O'	15	')'	49	'>'	83
'P'	16	'N'	50	'='	84

Character.	Cod.	Character.	Cod.	Character.	Cod.
'Q'	17	'a'	51	'{'	85
'R'	18	'b'	52	'}'	86
'S'	19	'c'	53	'['	87
'T'	20	'd'	54	']'	88
'U'	21	'e'	55	'ñ'	90
'V'	22	'f'	56	'\'	91
'W'	23	'g'	57	' '	92
'X'	24	'h'	58	'.'	93
'Y'	25	'i'	59	'.'	94
'Z'	26	'j'	60	'.'	95
'.'	27	'k'	61	'.'	96
'.'	28	'l'	62	'.'	97
'.'	29	'm'	63	'.'	98
'O'	30	'n'	64	'.'	99
'1'	31	'o'	65		
'2'	32	'p'	66		
'3'	33	'q'	67		

USER'S MANUAL

Spanish includes: Spain, Costa Rica, Venezuela, Colombia, Yugoslavia, Chile, Argentina, Guatemala, Rep. Dominicana, Mexico, South Africa, USA, Arabs Emirates, Italy, Ireland, Austria, Holland, Swiss, Portugal, France, Belgium, England, Denmark, Hungary, Germany and Estonia.

V5+	ESPAÑOL	CHECO - ESLOVACO	BULGARO	GRIEGO	POLACO
100	Ç			Α	
101	ç			Β	
102	Á	Á	Ъ	Δ	Ą
103	À	À	Ь	Φ	Ć
104	Ā	Ā	Ю	Γ	Ę
105	Ā	Ā	Я		Ł
106	Ē	Ē	Ē	Λ	Ń
107	Ĕ	Ĕ	Ы	Π	Ó
108	Ė	Ė	Э	Θ	Ś
109	Ě	L v	Ј	Σ	Ź
110	Í	Ń	Љ		Ż
111	ì	Ō	Њ	Ω	ą
112	Ī	Ŏ	Ѓ	Ξ	ć
113	Ĭ	Ř	Ѕ	Ψ	ę
114	Ó	Š	ъ	α	ł
115	Ō	Ť	ь	β	ń
116	Ŏ	Ů	Ю	δ	ó
117	Ö	Ů	Я	ε	ś
118	Ū	Ý	ě		ź
119	Ū	Ž	ы		ż
120	Ŭ	á	э	ι	÷
121	Ū	ä	ј	φ	
122	á	č	љ	κ	
123	à	d v	њ	λ	
124	â	é	џ	μ	
125	ä	Ě	s	π	
126	é	Ī	L		
127	è	l v	U	ρ	
128	ê	ň	V	σ	
129	ë	ó	R	τ	
130	í	ô	N	υ	
131	ì	ř	F	ϖ	
132	î	š		ω	
133	ï	t v		ξ	
134	ó	ú		ψ	
135	ò	ů		ζ	
136	ô	ý			
137	ö	ž			
138	ú	Ĺ			
139	ù				
140	û	Ř			
141	ü	Í			
143	£	ř			
144	Æ				
145	Ø				
146	Å				
147	æ				
148	ø				
149	å				
150	ß				
151	°				°
152	Ö				
153	Š				
154	ō				
155	š				
156	Ŏ				
157	Ů				
158	ó				
159	ű				
160	¢				
161	Euro				
162	€				
163	œ				
189				Euro	

Griego	Búlgaro	Latin	Griego	Búlgaro	Latin
	Α	A		А	a
	Β	B		Б	b
	Γ	V	ν	в	v
	Δ	H		г	h
	Ε	D		д	d
	Ε	E		е	e
	Ζ	G		ж	g
	Ζ	Z		з	z
	Ι	I		и	i
	Ϊ	J		й	j
	Κ	K		к	k
	Λ	L		л	l
	Μ	M		м	m
	Ν	N	η	н	n
	Ο	O		о	o
	Π	P		п	p
	Ρ	R		р	r
	Σ	S		с	s
	Τ	T		т	t
	Υ	U		у	u
	Φ	F		ф	f
χ	Χ	X		х	x
	Ц	C		ц	c
	Ч	Y		ч	y
	Ш	W		ш	w
	Щ	Q		щ	q

8.8. INGREDIENT CODES

A

0000 ACETIC ACID
 0001 ACID CALCIUM PHOSPHATE
 0002 ACID SODIUM
 0003 ACIDIFIER
 0004 ACIDIFIERS
 0005 ACIDIFIERS:
 0006 ACIDITY REGULATOR
 0007 ACIDS
 0008 ACIDULANTS
 0009 ADDITIVES
 0010 ADDITIVES:
 0011 AGLUTINANT
 0012 AGLUTINANTS:
 0013 ALBUMIN
 0014 ALCOHOL
 0015 ALKALINIZER
 0016 ALKALINIZERS
 0017 ALKALINIZERS:
 0018 ALMONDS
 0019 AMMONIA BICARBONATE
 0020 AMMONIUM CARBONATE
 0021 ANCHOVIES
 0022 ANIMAL FAT
 0023 ANIMAL FATS
 0024 ANIMAL FATS:
 0025 ANIMAL PROTEIN
 0026 ANISEED
 0027 ANISEED SPIRITS
 0028 ANTIAGLUTINANTS
 0029 ANTIAGLUTINANTS:
 0030 ANTIAGLUTINANT
 0031 ANTICOAGULANT
 0032 ANTICOAGULANTS
 0033 ANTICOAGULANTS:
 0034 ANTIOXIDANT
 0035 ANTIOXIDANTS:
 0036 APPLE
 0037 APPLE EXTRACT
 0038 APPLES
 0039 APRICOTS
 0040 AROMAS
 0041 AROMATIC AGENTS
 0042 AROMATIC AGENTS:
 0043 ARTICHOKES
 0044 ARTIFICIAL
 0045 ARTIFICIAL AROMA
 0046 ARTIFICIAL AROMAS
 0047 ARTIFICIAL AROMAS:
 0048 ARTIFICIAL SWEETENER
 0049 ARTIFICIAL SWEETENERS
 0050 ARTIFICIAL SWEETENERS:
 0051 ARTIFICIALS
 0052 ASCORBIC ACID
 0053 ASPARAGUS
 0054 ASPARAGUS STEMS
 0055 AUBERGINES

B

0200 BACON
 0201 BANANA
 0202 BANANAS
 0203 BARLEY
 0204 BARLEY GERM
 0205 BATTER
 0206 BAY LEAF
 0207 BEANS
 0208 BEANS:
 0209 BECHAMEL SAUCE
 0210 BEEF
 0211 BEEF DRIPPING
 0212 BEEF & ONION SEASONING
 0213 BEEF / LAMB'S FAT
 0214 BEER
 0215 BEETROOT
 0216 BELLY
 0217 BICARBONATE
 0218 BISCUIT
 0219 BISCUITS
 0220 BLACK PEPPER
 0221 BLACK PUDDING
 0222 BLACKBERRIES
 0223 BLACKBERRY EXTRACT
 0224 BLOOD
 0225 BOILED EGG
 0226 BRAN
 0227 BRANDY

0228 BRAZIL NUTS
 0229 BREAD
 0230 BREADCRUMBS
 0231 BROAD BEANS
 0232 BROWN BREAD
 0233 BROWN SUGAR
 0234 BUTTER
 0235 BEST BEFORE

C

0300 CABBAGE
 0301 CAFFEINE
 0302 CAKE
 0303 CALCIUM
 0304 CALCIUM CARBONATE
 0305 CAMOMILE TEA
 0306 CANE SUGAR
 0307 CAPSANTHIN
 0308 CARAMEL
 0309 CARBONATES
 0310 CARBONIC WATER
 0311 CAROB BEANS
 0312 CARROT
 0313 CARROT JUICE
 0314 CARROTS
 0315 CASEIN
 0316 CASEINATES
 0317 CAULIFLOWER
 0318 CELERY
 0319 CELLULOSE
 0320 CEREAL
 0321 CEREALS
 0322 CHEDDAR CHEESE
 0323 CHEESE
 0324 CHERRIES
 0325 CHERRY
 0326 CHESTNUTS
 0327 CHICK PEAS
 0328 CHICKEN
 0329 CHICKEN BREAST
 0330 CHICKEN LIVER
 0331 CHILLI BEANS
 0332 CHILLI POWDER
 0333 CHILLIES
 0334 CHIVES
 0335 CHLORIDE
 0336 CHOCOLATE
 0337 CHOCOLATE GLACE
 0338 CHOCOLATE SUBSTITUTE
 0339 CIDER
 0340 CINNAMON
 0341 CITRIC ACID
 0342 COCHINEAL
 0343 COCKLE
 0344 COCOA
 0345 COCONUT
 0346 COFFEE
 0347 COGNAC
 0348 COLOMBIA
 0349 COLOUR
 0350 COLOURANTS
 0351 COMPOSITION
 0352 CONCENTRATE
 0353 CONDIMENTS
 0354 CONFITURE
 0355 CONSERVANTS
 0356 CONSERVATOR
 0357 CONSERVATORS
 0358 CONSERVATORS:
 0359 CONTAINS
 0360 CORIANDER
 0361 CORN
 0362 CORN GERM
 0363 CORN OIL
 0364 CORNFLOUR
 0365 CORNFLOUR
 0366 COTTAGE CHEESE
 0367 COURGETTE
 0368 COW'S MILK
 0369 CRAB
 0370 CREAM
 0371 CREAM CHEESE
 0372 CRUMB
 0373 CUCUMBER
 0374 CUMIN
 0375 CURCUMIN

0376 CURED CHEESE
 0377 CURRANTS
 0378 CUSTARD

D

0500 DAMSONS
 0501 DATES
 0502 DEHYDRATED EGG
 0503 DEXTROSE
 0504 DILL
 0505 DOUGH
 0506 DRIED GLUCOSE SYRUP
 0507 DRIED PEPPER
 0508 DRIED PRUNES
 0509 DRIED SKIMMED MILK
 0510 DRIED SMOKED SALMON
 0511 DRIED SOY SAUCE
 0512 DRIED TOMATO
 0513 DUCK
 0514 DUCK'S BREAST
 0515 DUCK'S LIVER

E

0600 EDIBLE FATS
 0601 EELS
 0602 EGG
 0603 EGG WHITE
 0604 EGG YOLK
 0605 EGG YOLKS
 0606 EGGS
 0607 EMULGENTS
 0608 EMULGENTS:
 0609 EMULSIFIER (E-466)
 0610 ENHANCED AROMA
 0611 ENHANCED AROMAS
 0612 ENHANCED AROMAS:
 0613 ENZYMES BRINE
 0614 ENZYMES:
 0615 ESSENCE
 0616 E-100
 0617 E-101
 0618 E-102
 0619 E-104
 0620 E-110
 0621 E-120
 0622 E-122
 0623 E-123
 0624 E-124
 0625 E-127
 0626 E-131
 0627 E-132
 0628 E-140
 0629 E-141
 0630 E-142
 0631 E-150
 0632 E-151
 0633 E-153
 0634 E-160(a)
 0635 E-160(b)
 0636 E-160(d)
 0637 E-160(e)
 0638 E-160(f)
 0639 E-161
 0640 E-161(a)
 0641 E-161(b)
 0642 E-161(c)
 0643 E-161(d)
 0644 E-161(e)
 0645 E-161(f)
 0646 E-161(g)
 0647 E-162
 0648 E-163
 0649 E-170
 0650 E-171
 0651 E-172
 0652 E-173
 0653 E-174
 0654 E-175
 0655 E-200
 0656 E-201
 0657 E-202
 0658 E-203
 0659 E-210
 0660 E-211
 0661 E-212

0662 E-213
 0663 E-214
 0664 E-215
 0665 E-216
 0666 E-217
 0667 E-218
 0668 E-219
 0669 E-220
 0670 E-221

0671 E-222
 0672 E-223
 0673 E-224
 0674 E-226
 0675 E-249
 0676 E-250
 0677 E-251
 0678 E-252
 0679 E-260
 0680 E-261
 0681 E-262
 0682 E-263
 0683 E-270
 0684 E-280
 0685 E-281
 0686 E-282
 0687 E-283
 0688 E-290
 0689 E-300
 0690 E-301
 0691 E-302
 0692 E-303
 0693 E-304
 0694 E-306
 0695 E-307
 0696 E-308
 0697 E-309
 0698 E-310
 0699 E-311
 0700 E-312
 0701 E-320
 0702 E-321
 0703 E-322
 0704 E-325
 0705 E-326
 0706 E-327
 0707 E-330
 0708 E-331
 0709 E-332
 0710 E-333
 0711 E-334
 0712 E-335
 0713 E-336
 0714 E-337
 0715 E-338
 0716 E-339
 0717 E-339(i)
 0718 E-340
 0719 E-340(i)
 0720 E-341
 0721 E-400
 0722 E-401
 0723 E-402
 0724 E-403
 0725 E-404
 0726 E-405
 0727 E-406
 0728 E-407
 0729 E-410
 0730 E-412
 0731 E-413
 0732 E-414
 0733 E-415
 0734 E-420
 0735 E-421
 0736 E-422
 0737 E-440
 0738 E-450
 0739 E-450(a)
 0740 E-450(i)
 0741 E-460
 0742 E-461
 0743 E-463
 0744 E-464
 0745 E-465
 0746 E-466
 0747 E-470
 0748 E-471

0749 E-472
 0750 E-473
 0751 E-474
 0752 E-475
 0753 E-477
 0754 E-481
 0755 E-482
 0756 E-483

F

0900 FAT
 0901 FATS
 0902 FIBRE
 0903 FIG
 0904 FIGS
 0905 FISH
 0906 FISH ESSENCE
 0907 FISH EXTRACT
 0908 FISH FUMET
 0909 FLAKY PASTRY
 0910 FLAVOUR ENHANCER
 0911 FLAVOURING
 0912 FLOUR
 0913 FRESH ONION
 0914 FRUCTOSE
 0915 FRUIT
 0916 FRUIT EXTRACT
 0917 FRUIT NECTAR
 0918 FRUITS

G

1000 GALACTOSE
 1001 GARLIC
 1002 GARLIC EXTRACT
 1003 GASIFIER
 1004 GASIFIERS
 1005 GASIFIERS:
 1006 GELATINE
 1007 GELIFIER
 1008 GELIFIERS
 1009 GELIFIERS:
 1010 GHERKINS
 1011 GINGER
 1012 GLACEED
 1013 GLUCOSE
 1014 GLUCOSE SYRUP
 1015 GLYCERINE
 1016 GLYCERINES
 1017 GOAT'S CHEESE
 1018 GOAT'S MILK
 1019 GOOSE
 1020 GOOSE LIVER
 1021 GRAPE JUICE
 1022 GRAPEFRUIT
 1023 GRAPEFRUIT JUICE
 1024 GRAPES
 1025 GREEN BEANS
 1026 GREEN CHILLI PEPPERS
 1027 GREEN PEPPERS
 1028 GRENADINE
 1029 GROUPEL
 1030 GUAR GUM

H

1100 HAKE
 1101 HAM
 1102 HARD BOILED EGG
 1103 HARDENER
 1104 HARDENERS
 1105 HARDENERS:
 1106 HAZELNUTS
 1107 HERBS
 1108 HERBS:
 1109 HERRING
 1110 HONEY
 1111 HUMECTANT
 1112 HUMECTANTS
 1113 HYDROGENATED VEGETABLE OIL
 1114 HYDROLIZED
 1115 HYDROLYSED VEGETABLE PROTEIN
 1116 HYDROL. PROTEINS
 1117 H-3243
 1118 H-3246

1119 H-3247
1120 H-3250
1121 H-4381
1122 H-4382
1123 H-4383
1124 H-4384
1125 H-4385
1126 H-4386
1127 H-4387
1128 H-4388
1129 H-4389
1130 H-4390
1131 H-4391
1132 H-4392
1133 H-4393
1134 H-4394
1135 H-4395
1136 H-4421
1137 H-4422
1138 H-4423
1139 H-4424
1140 H-4425
1141 H-4435
1142 H-4436
1143 H-4437
1144 H-4438
1145 H-4439
1146 H-4440
1147 H-4511
1148 H-4512
1149 H-4521
1150 H-5514
1151 H-5801
1152 H-5804
1153 H-5805
1154 H-5810
1155 H-5812
1156 H-5813
1157 H-5814
1158 H-5816
1159 H-5817
1160 H-6880
1161 H-6881
1162 H-6882
1163 H-6884
1164 H-6886
1165 H-6887
1166 H-7034
1167 H-7093
1168 H-7103
1169 H-7120
1170 H-7170
1171 H-7171
1172 H-7172
1173 H-7173
1174 H-7174
1175 H-7175
1176 H-7176
1177 H-7177
1178 H-7194
1179 H-7198
1180 H-7199
1181 H-7217
1182 H-7218
1183 H-8001
1184 H-8002
1185 H-8006
1186 H-8016
1187 H-8020
1188 H-8030
1189 H-8036
1190 H-8050
1191 H-8051
1192 H-8052
1193 H-8053
1194 H-8058
1195 H-8066
1196 H-8080
1197 H-8085
1198 H-8086
1199 H-8110
1200 H-8131
1201 H-8140
1202 H-8162
1203 H-8186
1204 H-9845
1205 H-10056
1206 H-10062
1207 H-10068
1208 H-11061
1209 H-11091
1210 H-11106
1211 H-11134
1212 H-11135

1213 H-11181
1214 H-11182
1215 H-11185

I

1300 INGREDIENTS
1301 INGREDIENTS:
1302 INTRIFICANTS
1303 IRON

J

1400 JELLIED FRUIT
1401 JELLY
1402 JUICES

K

1500 KIDNEY BEANS
1501 KIPPER
1502 KIPPERS
1503 KIWI
1504 KEEP REFRIGERATED
1505 KILO

L

1600 LACTEOUS
1601 LACTOFLAVINE
1602 LAMB
1603 LAMB / PORK S FAT
1604 LEAN
1605 LEAN BEEF
1606 LEAN PORK
1607 LECITHIN
1608 LEEK
1609 LEEKS
1610 LEMON
1611 LEMON EXTRACT
1612 LEMON JUICE
1613 LEMONS
1614 LENTILS
1615 LETTUCE
1616 LIGHT SAUCE
1617 LIME
1618 LINSEED
1619 LIQUEUR
1620 LIQUID CARAMEL
1621 LIQUORICE
1622 LIVER

M

1800 MACARONI
1801 MACKEREL
1802 MAGNESIUM
1803 MALT
1804 MALT GERM
1805 MALT VINEGAR
1806 MALTODEXTRIN
1807 MANDARIN
1808 MANDARINS
1809 MANGANESE
1810 MARGARINE
1811 MARZIPAN
1812 MAYONNAISE
1813 MEAT
1814 MEAT EXTRACT
1815 MELTED CHEESE
1816 MERINGUE
1817 MILK
1818 MILK PRODUCTS
1819 MINERAL
1820 MINERAL WATER
1821 MINERALS
1822 MINT
1823 MODIFIED STARCH
1824 MODIFIER
1825 MOD. ORGANOLEPTIC
1826 MOLLASSES
1827 MONOSODIUM GLUTAMATE
1828 MOZZARELLA CHEESE
1829 MUSHROOMS
1830 MUSSELS
1831 MUSTARD
1832 MUSTARD SEEDS

N

2000 NATURAL AROMA
2001 NATURAL AROMAS

2002 NATURAL AROMAS:
2003 NATURAL JUICES
2004 NATURAL SKINS
2005 NATURAL SPICES
2006 NATURAL SWEETENER
2007 NATURAL SWEETENERS
2008 NATURAL SWEETENERS:
2009 NECTAR
2010 NEUTRALISER
2011 NEUTRALISERS
2012 NEUTRALISERS:
2013 NITRIFICANTS:
2014 NOODLES

O

2100 OATGERM
2101 OATS
2102 OIL
2103 OLIVE OIL
2104 OLIVES
2105 ONION
2106 ORANGE
2107 ORANGE BRANDY
2108 ORANGE EXTRACT
2109 ORANGE JUICE
2110 ORANGES
2111 OREGANO
2112 ORGANOLEPTIC MODIFIER
2113 OX TONGUE
2114 OXYGENATED WATER
2115 OXYSTERINE
2116 OYSTERS

P

2200 PAPRIKA
2201 PARMESAN CHEESE
2202 PARMESAN CHEESE POWDER
2203 PARSLEY
2204 PARTRIDGE
2205 PARTRIDGES
2206 PASTA
2207 PEACH
2208 PEACH BRANDY
2209 PEACH JUICE
2210 PEACHES
2211 PEANUT BUTTER
2212 PEANUTS
2213 PEAR
2214 PEAR JUICE
2215 PEARS
2216 PEAS
2217 PEPPER
2218 PEPPERS
2219 PH REGULATOR
2220 PHEASANT
2221 PHOSPHATE
2222 PHOSPHATES
2223 PHOSPHOROUS
2224 PIG'S LIVER
2225 PIG'S TROTTERS
2226 PIGEON
2227 PINE KERNAL NUTS
2228 PINEAPPLE
2229 PINEAPPLE JUICE
2230 PISTACHIOS
2231 POLYPHOSPHATES
2232 PORK
2233 PORK FAT
2234 PORK RIBS
2235 PORT WINE
2236 POTASSIUM
2237 POTASSIUM NITRATE
2238 POTASSIUM SORBATE
2239 POTATO
2240 POTATOES
2241 POWDERED SKIMMED MILK
2242 POWDERED SKIMMED YOGHURT
2243 POWDERED WHOLE EGG
2244 POWDERED YOGGHURT
2245 PRAWN EXTRACT
2246 PRAWNS
2247 PRESERVATIVE
2248 PRESERVATIVES
2249 PRESERVATIVES:
2250 PROTEINS
2251 PUMPKIN
2252 PUREE
2253 PACKED DATE
2254 PRICE

R

2500 RABBIT
2501 RAISING AGENT
2502 RAISINS
2503 RASPBERRIES
2504 RED KIDNEY BEANS
2505 RED PEPPER
2506 RED WINE
2507 REGULATOR
2508 REGULATORS
2509 REGULATORS:
2510 RICE
2511 RIOJA WINE
2512 ROAST HAM
2513 ROLLED OATS
2514 ROQUEFORT CHEESE
2515 ROSE WINE
2516 RUM
2517 RUNNER BEANS
2518 RUSK
2519 RYE
2520 RYE GERM

S

2600 SACCHARINE
2601 SAFFRON
2602 SALAMI
2603 SALMON
2604 SALT
2605 SALTS
2606 SARDINE
2607 SARDINES
2608 SAUCE
2609 SAUSAGE
2610 SAUSAGES
2611 SCAMPI
2612 SEA SALT
2613 SEED
2614 SEEDS
2615 SEMOLINA
2616 SESAME
2617 SESAME SEEDS
2618 SHERRY
2619 SKIMMED YOGHURT
2620 SMOKED BACON
2621 SMOKED CHEESE
2622 SMOKED EEL
2623 SMOKED HAM
2624 SMOKED MACKEREL
2625 SMOKED SALMON
2626 SMOKED TROUT
2627 SODA
2628 SODIUM BENZOATE
2629 SODIUM BICARBONATE
2630 SODIUM CHLORIDE
2631 SODIUM L-ASCORBATE
2632 SODIUM NITRATE
2633 SODIUM NITRITE
2634 SODIUM PHOSPHATES
2635 SODIUM & POTASSIUM PHOSPHATES
2636 SOLE
2637 SORBITOL
2638 SOY
2639 SOY SAUCE
2640 SOYA PROTEIN
2641 SPICE EXTRACT
2642 SPICES
2643 SPICES:
2644 SPINACH
2645 SPIRIT VINEGAR
2646 SPRING ONIONS
2647 SQUID
2648 STABILISERS
2649 STABILISERS:
2650 STABILIZING
2651 STABILIZING AGENTS
2652 STABILIZING AGENTS:
2653 STARCH
2654 STILTON CHEESE
2655 STRAWBERRIES
2656 SUBSTANCES
2657 SUBSTITUTE
2658 SUBSTITUTES
2659 SUGAR
2660 SUGARS
2661 SULPHATES
2662 SUNFLOWER
2663 SUNFLOWER GERM
2664 SUNFLOWER SEED NUTS
2665 SUNFLOWER SEED OIL
2666 SUNFLOWER SEED STARCH

2667 SWEET PAPRIKA
2668 SWEETENER
2669 SWEETENERS
2670 SWEETENERS:
2671 SYNERGIC
2672 SYNERGICS
2673 SYRUP
2674 SUITABLE FOR FREEZING
2675 STORE AT 0 TO 18 °C

T

2800 TEA
2801 THICKENER
2802 THICKENERS:
2803 THYME
2804 TOMATO
2805 TOMATO POWDER
2806 TOMATO PUREE
2807 TOMATO SAUCE
2808 TOMATO SOUP
2809 TOMATOES
2810 TRIPE
2811 TRIPHOSPHATES
2812 TROUT
2813 TRUFFLE
2814 TRUFFLES
2815 TUNA FISH
2816 TURKEY
2817 TURMERIC
2818 TURNIP
2819 TURNIPS

V

3100 VANILLA
3101 VEAL
3102 VEGETABLE BOUILLON
3103 VEGETABLE EXTRACT
3104 VEGETABLE FAT
3105 VEGETABLE FIBRE
3106 VEGETABLE OIL
3107 VEGETABLE PROTEINS
3108 VEGETABLE SOUP
3109 VEGETABLES
3110 VEGETABLES:
3111 VENISON
3112 VERMOUTH
3113 VINEGAR
3114 VITAMINS

W

3200 WALNUT
3201 WALNUTS
3202 WATER
3203 WATERCRESS
3204 WHEAT
3205 WHEAT GERM
3206 WHEAT STARCH
3207 WHEATFLOUR
3208 WHEATGERM OIL
3209 WHISKY
3210 WHITE PEPPER
3211 WHITE SUGAR
3212 WHITE WINE
3213 WHITENER
3214 WHITENERS
3215 WHITENERS:
3216 WHOLEMEAL FLOUR
3217 WINE
3218 WINE VINEGAR
3219 WINES
3220 WEIGHT
3221 WEIGHT KG

X

3300 XANTHAN GUM

Y

3400 YEAST
3401 YEAST EXTRACT
3402 YOGHURT
3403 YOLK
3404 YOLKS
3405 YORK HAM

Z

3800 0 - 5 °C
3801 %

8.9. TROUBLESHOOTING

DIBAL Series K scales run a check for anomalies every time they are switched on.

If a problem is detected the scales displays an error message which may help determine the cause.

A list of the most frequent problems and error messages and how to correct the errors is given below.

8.9.1. *Problems with weight*

The following weight problems and error messages may appear.

ZERO ERROR

- Ensure that the weighing platform is clear.
- Ensure there is nothing touching the platform.

NEGATIVE WEIGHT

- Reset the scales, ensuring that the weighing platform is empty.

SCALES BLOCKED

- Disconnect and re-connect the scales with the platform empty.

INCORRECT WEIGHING

- Check the platform and support, disconnect and re-connect.
- Check that the platform is not touching any other object.

NON-ZERO WEIGHT DISPLAYED WITH NOTHING ON PLATFORM

- Press the automatic zero setting key.
- Check that the platform is not touching any other object.

NEGATIVE WEIGHT

- Reset the scales, ensuring that the weighing platform is empty.

8.9.2. *Communication errors*

The main communication problems and errors are the following:

CONNECT COMPUTER

- If the scales is configured as a Master and is connected to a computer, ensure that the computer is on and the connecting cable is properly fitted.
- If the scales is configured as a Master but is not connected to a computer, press any key to start work.

LOADING DATA

- Switch on the relevant Master scales so that the scales can begin to work.
- The scales is currently configured as a Slave. After conversion to master this message will no longer be displayed.

COMMUNICATION ERROR

- Ensure that the scales is properly addressed. If it is working without communication with other scales, check that it is configured as a Master
- If it is connected to other scales, check:
 - that there is only one Master in the system;
 - that each slave in the system has its own unique address;
 - that the communication cables are properly fitted.

SCALES DO NOT COMMUNICATE WITH COMPUTER

- Check the connections on the scales and connection boxes.
- Check the configuration and address of the Master scales
- Check the group number.
- Check the communications parameters.

SCALES DO NOT COMMUNICATE WITH ONE ANOTHER

- Check connections between scales and connection boxes.
- Check addresses of Master/ Slaves as per section 7.1 above.

8.9.3. Problems with items weighed

The following problems and error messages may appear in regard to the programming and use of PLU's.

ITEM NOT FOUND

- The pre-set key pressed is not programmed for a PLU. See the section on defining PLU's for how to programme keys.

AMOUNT IN EUROS NOT SHOWN

- Check the current Euro phase.

8.9.4. Printing problems

The following problems and error messages may appear in regard to printing receipts and adhesive labels.

DESIRED PRINT QUALITY NOT OBTAINED

- Adjust the printer contrast settings.
- Clean the head with a dry cloth.

LABEL NOT PRINTED

- Register sales personnel.
- Check that item selected is registered.
- Check that labeller is properly configured.
- Check that heat-sensitive side (not back) of paper is in contact with head.
- Check that head comes into contact with paper.

LABEL PRINTED IN WRONG FORMAT

- Check the label format and size.
- Check the overall label format.

EUROS NOT SHOWN OR NOT CORRECT

- Check the type of receipt.
- Check the current Euro phase.

PAPER ERROR

- Replace the roll of heat-sensitive paper

8.9.5. Keyboard problems

The following keyboard-related problems may arise:

SALES PERSONNEL KEYS DO NOT WORK

Register sales personnel.

8.9.6. Programming problems

The following problems may arise in programming the scales:

SCALES CANNOT BE PROGRAMMED

- Ensure that the scales is configured as a Master.

TYPES OF LABELS & HEAT-SENSITIVE PAPER FOR SERIES K

MODELS K-3x5, K-38x

- **BS-60X60 Roll of 700 60x60 heat-sensitive labels.** (Inside diameter 40 mm., outside diameter 100 mm., backing paper width 61 mm., label width 59 mm., label length 60 mm., separation between labels 2.2 mm., labels outwards).

- **BK-E60X100 Roll of continuous 60x100x40 heat-sensitive labels.** (Inside diameter 40 mm., outside diameter 100 mm., backing paper width 61 mm., label width 59 mm., label outwards).

- **BK-60X100 Roll of 60x100x40 blank white heat-sensitive paper.** (Inside diameter 40 mm., outside diameter 100 mm., width 60 mm., emulsion on outer face)

- **BS-RS2000B Roll of 60x55x12 blank white heat-sensitive paper.** (Inside diameter 12 mm., outside diameter 55 mm., width 60 mm., emulsion on outer face)

MODEL K-3x0

- **BK-57X55 Roll of 57x55x12 white heat-sensitive paper.** (Inside diameter 12 mm., outside diameter 55 mm., width 57 mm., emulsion on outer face)

- **BK-57X100 Roll of 57x100x12 heat-sensitive paper** (Inside diameter 12 mm., outside diameter 100 mm., width 57 mm., emulsion on outer face)

* F 0 7 9
0 1
4 x X

8.11. PLU PROGRAMMING FOR BEEF TRACEABILITY

Enter item programming mode, key in the item code and press **X** four times.

C	1PLU	01
tiP		2

8.11.1. BEEF TRACEABILITY PROGRAMMING ITEMS

For meat products, the following PLU types are available:

- 2 → Weighted beef
- 3 → Pre-set beef
- 4 → Weighted mince
- 5 → Non Weighted mince
- 6 → Zero price.
- 7 → Negative price.

10 x X

C	1PLU	01
IND		1

1

C	1PLU	01
IND		01

If you select one of these types, press **X** ten times to go on to programming the Rapid-Access Animal Number.

*

Use the number keys to enter the Rapid-Access Animal Number (NRA). Any number from 1 to 99 may be used, though only 10 NRA's may be entered.

Press ***** to save the meat item programmed.

* F 0 7 9 0

NdA 00		
COd		

V2

NdA 01	01	0n
COd		

...
X

NdA 01	01	0n
n MAt		

...
X

NdA 01		
P Mat		00

...
X

NdA 01	01	0n
n dEs		

...
X

NdA 01		
P dES		00

...
X

NdA 01		
P PRO		00

...
X

NdA 01		
F PRO		000000

...
X

NdA 01		
P nAC		00

...
X

NdA 01		
P En1		00

8.11.2. ANIMAL PROGRAMMING (BEEF TRACEABILITY)

*F0790

V2

C.O.d.00
SLH n

...
X

C.O.d.01
SLH n

...
X

C.O.d. 01 01 0n
SLH C

...
X

C.O.d.01
CUT n. 54

...
X

C.O.d.01
CUT C. 21

...
X

C.O.d.01
n dEs

...
X

C.O.d.01
P dES 00

...
X

C.O.d.01
P PRO 00

...
X

C.O.d.01
BRH C. 000000

...
X

C.O.d.01
P nAC 00

...
X

C.O.d.01
Ft 1 C. 00

...
X

C.O.d.01
CAtEG

...
X

C.O.d.01
rACE

The animals to be sold must be programmed in as follows.

1. Enter programming mode by keying in *F0790 and V2.
2. Set the "NRA" (Rapid-Access Animal Number) field by entering a figure between 1 and 99. Press X to move on the next field.
3. Set the "COd" (ANIMAL CODE) field by entering a 14-character word. Press X to go on to the next field.
4. Set the "n Mat" (abattoir number) field by entering an 11-character word. Press X to go on to the next field.
5. Set the "P Mat" (abattoir country) field by entering the relevant between 1 and 99 from the table of countries below. Press X to go on to the next field.
6. Set the "n dEs" (Quartering Number) field by entering an 11-character word. Press X to go on to the next field.
7. Set the "P dES" (Country of Quartering) field by entering the relevant number between 1 and 99 from the table of countries below. Press X to go on to the next field.
8. Set the "P PRO" (Country of Production) field for minced meat by entering the relevant number between 1 and 99 from the table of countries below. Press X to go on to the next field.
9. Use the number keys to set the "F PRO" (Date of Production) field in 'ddmmaa' format. Press X to go on to the next field.
10. Set the "P nAC" (Country of Birth) field by entering the relevant number between 1 and 99 from the table of countries below. Press X to go on to the next field.
11. Set the "Ft 1 C." (Country of Fattening 1, 2 and 3) field by entering the relevant number between 1 and 99 from the table of countries below. Press X to go on to the next field.
12. Set the "CAtEG" (Category) field by entering a 3-character word. Press X to go on to the next field.
13. Set the "rACE" (Breed) field by entering a 20-character word. Press X to go on to the next field.

NdA 01
Sex

Set the "Sex" field by using **C** to select between:

* NO
H Female
M Male
B Steer

X

Press **X** to go on to the next field.

NdA 01
tYPE -

14. Set the "tIPO" (Animal Type) field by using **C** to select between

* NO
F Heifer
M Yearling
O Older beef animal

X

Press **X** to go on to the next field.

NdA 01
AGE 00 En M

15. Set the "AGE" field. Press **X** and use **C** to select between MONTH and YEAR.

X

Press **X** to go on to the next field.

X

NdA 01 01 0n
Txt 1

16. Set Texts 1, 2, 3, 4 & 5 associated with the animal. Each text may contain up to 20 characters.

Press ***** to save the data on the animal

8.11.2.1. Table of Countries

A

01 ALBANIA
05 ALGERIA
03 ANDORRA
32 UNITED ARAB EMIRATES.
06 ARGENTINA
07 AUSTRALIA
08 AUSTRIA
09 AZERBAIJAN

B

10 BAHRAIN
12 BELARUS
11 BELGIUM
13 BOLIVIA
14 BOSNIA HERZEGOVINA
15 BRAZIL
16 BULGARIA

C

18 CAMEROON
19 CANADA
17 CAPE VERDE
20 CHAD
21 CHILE
22 CHINA
24 COLOMBIA
25 COSTA RICA
26 CROATIA
27 CUBA
23 CYPRUS

D

79 CZECH REPUBLIC
28 DENMARK
80 DOMINICAN REPUBLIC

E

29 ECUADOR
30 EGYPT
31 EL SALVADOR
35 ESTONIA

F

37 FINLAND
38 FRANCE

G

39 GEORGIA
02 GERMANY
40 GHANA
41 GREECE
42 GUATEMALA
H
44 HONDURAS
45 HUNGARY

I

49 ICELAND
47 IRAN
46 IRAQ
50 ISRAEL
51 ITALY

J

52 JAPAN
53 JORDAN

K

54 KAZAKSTAN
55 KENYA
56 KUWAIT

L

57 LATVIA
58 LIECHTENSTEIN
59 LITHUANIA
60 LUXEMBOURG

M

61 MACEDONIA
62 MALTA
64 MEXICO
65 MONACO
63 MOROCCO
66 MOZAMBIQUE

N

43 NETHERLANDS
67 NICARAGUA
68 NIGERIA
69 NORWAY
O
70 OMAN

P

71 PANAMA
72 PARAGUAY
73 PERU
36 PHILIPPINES
74 POLAND
75 PORTUGAL
76 PUERTO RICO

Q

77 QATAR

R

98 REPUBLIC OF THE CONGO
48 REPUBLIC OF IRELAND
81 REPUBLIC OF SLOVAKIA

S

82 RUMANIA
83 RUSSIA
S
04 SAUDI ARABIA
33 SLOVENIA
84 SOUTH AFRICA
34 SPAIN
85 SUDAN
86 SWEDEN
87 SWITZERLAND

T

88 TUNISIA
89 TURKEY

U

91 UGANDA
90 UKRAINE
78 UNITED KINGDOM
92 URUGUAY
93 USA

V

94 UZBEKISTAN
95 VENEZUELA
Y

Y

96 YEMEN
97 YUGOSLAVIA
OTHERS
99 NON EU

8.11.3. BEEF TRACEABILITY OPERATION

There are two operating modes:

Manual (parameter Conf. 16 = 0):

Each time an item of meat is sold the item and the data for the animal associated with it are displayed on screen. The association can be changed via an association menu.

Automatic (parameter Conf. 16 = 1):

Each time an item of meat is sold, the sale is applied to the last animal with which that item was associated.

In both cases a combination of keys enables the user to enter the menu of association between animals and meat items.

SHIFT PLU Idn 01

+ 0 -

Icn 02

*

*

F

! Whatever the working mode, the menu associating animals with items can be entered by pressing **SHIFT** and **PLU** once the meat item has been selected.

In this association menu the display shows the code and name of the item and the NRA and ID number of the animal.

Press **+** or **-** to display the next or previous animal programmed. The number keys can also be used to enter the number of the animal to be displayed. To save the association, press *****.

For meat items in manual mode, this menu will appear when the sales personnel key is pressed, and the sale is completed by pressing ***** to validate the association.

If **F** is pressed the animal associated with the sale will be the original animal indicated, and the new association between item and animal will not be saved.

8.11.4. PRINTING RECEIPTS WITH BEEF TRACEABILITY DATA

When a meat type item is sold in non label mode, the receipt is printed with information on the animal from which the item sold came. An indication of the receipt line corresponding to the animal is also given.

Only those fields programmed for the animal will be printed.

* F 0 0 0 0
PT

8.11.5. BEEF TRACEABILITY LISTS

The scales can produce a list of meat products with the accumulated weight of all the animals for which data are programmed.

To obtain this list, enter list mode and press **PT**

8.11.6. BEEF TRACEABILITY LABEL FORMATS

The following fields can be programmed for labels programmed into the scales (see the User's Manual for details):


160	L.TXA 0	"ID N° "	178	F. Prod	Date of production of minced meat
161	L.TXA 1	"Slaughtered in: "	179	P. Nacim	Country of birth of animal
162	L.TXA 2	"Quartered in: "	180	P. engor	Country/ies of fattening
163	L.TXA 3	"Produced in: "	181	Categ	Category of animal
164	L.TXA 4	"Country of birth: "	182	Raza	Breed of animal
165	L.TXA 5	"Countries of fattening: "	183	Sexo	Sex of animal
166	L.TXA 6	"Category: "	184	Edad	Age of animal
167	L.TXA 7	"Breed: "	185	T. Anim	Type of animal
168	L.TXA 8	"Sex: "	186	Origen	Place of origin of animal
169	L.TXA 9	"Age:"	187	Txt A 1	1 Free text on animal
170	L.TXA A	"Type of animal: "	188	Txt A 2	2 Free text on animal
171	L.TXA B	"Origin: "	189	Txt A 3	3 Free text on animal
172	C. Anim	Animal ID n°	190	Txt A 4	4 Free text on animal
173	C. Mat	Abattoir ID n°	191	Txt A 5	5 Free text on animal
174	P. Mat	Country of abattoir	192	L.TXT D2	"2 Cutting in:"
175	C.Desp	Quartering hall permit n°	193	Cut 2	2 Cutting plant authorisation no.
176	P. Desp	Country of quartering hall	194	C 2 Cut	Country of 2 cutting plant
177	P. Prod	Country of production of minced meat			

 **NB: If the countries of abattoir, birth and fattening coincide, the country of the abattoir appears in field 186 on printing. If not, asterisks are printed in this field.**

Those fields not taken up with fixed texts and programmed under "Animal" are only printed if they are filled in when the animal data are programmed. If the item selected is not meat, these fields are not printed even if the format contains them.

9. ANNEX FOR SCALES WITH INTERNAL BATTERY

9.1. Consejos para el Funcionamiento de las Balanzas


 **The scale can incorporate either one or two lead batteries. Use original batteries supplied by DIBAL S.A. The use of any other type will cancel the scale's guarantee and could be dangerous.**

New batteries are partially charged. **Before using the scale, you must install and charge the batteries by turning on the two switches** located on the rear part of the scale. The batteries will then start to charge.

- If only the switch nearest the edge is turned on, the scale will run on batteries.
- If only the switch furthest from the edge is turned on, the scale will run on the mains and the battery will not charge.

The **standard time for charging the batteries is 12 hours**. The said charging time will depend on a variety of factors: battery discharge level, temperature and the age of the battery.








- If they are not left **long enough**, the batteries **will fail to charge fully**.
- If left for **longer**, it **will not have any negative effect** on the life of the batteries. It does not affect the performance or duration of the same. **You are recommended to leave the batteries to charge for a longer rather than a shorter period.**


 **When the battery needs recharging, the icon located on the screen will blink. The scale will still work for about another 10 hours (*this depends on the type of battery*) after which it will automatically switch itself off to protect the battery.**

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 (1 = negative, 2 = positive).**


The models with batteries of the DIBAL K series have **two switches** on the lower part. The switch located nearest the left side is that pertaining to operation in battery mode and the one next to it is used for working in network mode.

 **Both switches must be enabled when turning on the scale.**

 **In the case of normal working and a mains failure, the scale will start to work in battery mode. It should be switched off if it is not going to be used. Otherwise, the battery charge will be used up, and it will have to be recharged before the next operation.**

In the event of a flat battery, there are two ways to operate:

- Work from the mains, for which you only need to turn on the power switch. In this working mode, the battery is disconnected, and will therefore not charge nor feed the scale in the event of a mains failure. (In the event of a power failure, the scale will not work until the power supply is reconnected).
- Enable both switches. This could give rise to changes in the state of the scale, caused by the consumption of energy by the battery while it is being charged. These changes are reflected on the screen with the message PASS MAINS-PASS BATTERY. To avoid this problem:
 - Work on the mains.
 - Charge the battery before using it.


 **You are recommended to always keep the battery charged. This is why, when the scale is not being used, leave the battery to charge. To do so, switch on the scale in normal working mode. (Both switches must be enabled).**

9.2. BATTERY INDICATOR

The battery symbol has three different indications according to the level of charge of the battery

Battery symbol on: Battery charged.

Battery symbol blinking slowly: Charging battery

Battery symbol blinking quickly: Battery nearly discharged.  Charge it immediately

9.3. BATTERY CHARGE LEVEL LIST

In scales with an internal battery, to **check the charge level**, do the following:

1.- The scale must be **operating with a battery**.

2.- Press **SHIFT** and **+**.

3.- The battery level will display on the **screen**:

- 0. = < 5 %
- 1. = 5-19 %
- 2. = 20-39 %
- 3. = 40-59 %
- 4. = 60-79 %
- 5. = 80-100 %

4.- Press **PLU**.

5.- The scale will print a line with the **date and the time** and a 2nd line with the **level and voltage of the battery**.

9.4. TYPES OF BATTERIES

Anti-blackout BATTERY.

Option available for scales with **flat or tower format scale with receipt printer**. It enables the scale to continue to operate for several hours in the event of a mains failure.

K-335 Flat/Tower. = 12 V / 3'4 Ah

High-capacity batteries.

Option for **flat/tower format or double body scale with receipt printer**.

K-330 D.C. = 12 V / 7'2 Ah

K-330 Flat/Tower = 2 x 6 V / 5 Ah

Test conditions:

- K-350 scale.
- Fully charged battery.
- Screen with backlighting disconnected.
- Printing of a receipt with 2 items every 3 minutes or in the case of the label printer, a complex 60x60mm label every 30 seconds.

No. Receipts printed	4000
Total working time	18 hours and 30 minutes

- Approximate average times.
 - The times for charging and autonomy may vary considerably depending on the temperature, age and condition of the batteries, frequency of use of the printer, etc...

9.5. CHARGING TIME

The time needed for charging a battery depends on the charge current, the degree of discharge of the battery, the temperature and age of the battery. If it is left to charge over a shorter period of time than is necessary, the battery will not charge fully, causing the scale to last shorter than expected.

If left to charge over a longer period, it will not negatively affect the life of the batteries, nor will it impair performance or its duration. In addition, that way you ensure that the batteries are fully charged. **It is better to leave the batteries to charge for a longer period than not leaving them long enough.**

The scales have an internal charger to charge the batteries with 1A. With this current and a fully discharged battery, the charging time for each type of battery is as follows:

3.4 AH Battery, 10 hours.


5 AH battery, 12 hours.

7.2 AH battery, 16 hours

14.4 AH battery, 32 hours.

9.6. EXTERNAL BATTERY CHARGER

Apart from the internal charger, the scales **are built to charge the batteries by means of an external charger**. The charger must be connected to the 4 pin connector on the lower part of the scale.

	PIN	SIGNAL	
	1	-	BATTERY
	2	+	
	3	-	EXTERNAL CHARGER
4	+		

The said charger is **recommendable in the case of dual body 2 high capacity scales**. In this case, with the battery's internal charger, the charging time is over 32 hours. If you use the external charger, the said time can be reduced to 12 hours.

The batteries must be charged to a ¼ of their rated capacity, with the voltage being 12V in all cases. If both parameters are met, the **charging time will be, approximately, 12 hours**.

In the case of an external charger, the recommended **characteristics** are as follows:

Battery	Voltage	Current		
		Minimum	Standard	Maximum
5Ah	12V	1.00A	1.25A	1.50A
7.2Ah	12V	1.44A	1.80A	2.16A
14.4Ah	12V	2.50A	3.60A	4.32A

- ! If a lower current charger is used, the battery will take longer to charge. There is no other effect.
- ! If a higher current charger is used, it will take less time to charge. In this case, the battery will be forced and the useful life cycles of the same will be reduced. This option is not recommended as the usual way to charge the batteries. It is only acceptable when there is not enough time to charge the batteries, 12 hours.

DIBAL	DECLARATION OF CONFORMITY DECLARATION DE CONFORMITE KONFORMITÄTSERKLÄRUNG DICHIARAZIONE DI CONFORMITA DECLARACION DE CONFORMIDAD	CE	  <small>ISO 9001</small>
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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 Déniz Gento Date/Data/Datum/Fecha: 17/mar/2010
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Type: Typ: Tipo:	K Series	No of the EC type-approval certificate: Nº du certificat d'approbation CE de type: Bescheinigungsnr. der EC Bauartzulassung: Nr. certificato d'approvazione CE del tipo: N.º do certificado de aprovação CE do tipo: Nº de certificado de aprobación CE de tipo:	T5809
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GB	<p>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.</p> <p>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.</p>
F	<p>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.</p> <p>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.</p>
D	<p>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.</p> <p>Bei der Eichung in zwei Stufen kann die Gültigkeit der Konformitätserklärung vom Nachweis der Durchführung von der zweiten Stufe der Eichung abhängen.</p>
I	<p>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.</p> <p>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>
P	<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 alínea 8.2.</p> <p>Em caso de verificação em duas etapas a validade da declaração de conformidade pode depender da documentação da execução da segunda etapa da verificação.</p>
E	<p>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.</p> <p>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.</p>

The manufacturer may modify the information in this manual without prior notice.

Ref.: 49-MK300EN23 REV 24 28/06/2012

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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 underline.