



MANUAL FOR USE, PROGRAMMING AND MAINTENANCE

SCALES OF TICKETS AND LABELS
12 AND 20 SELLERS
MODEL BC1303

VERSION 14.09.18

INDEX

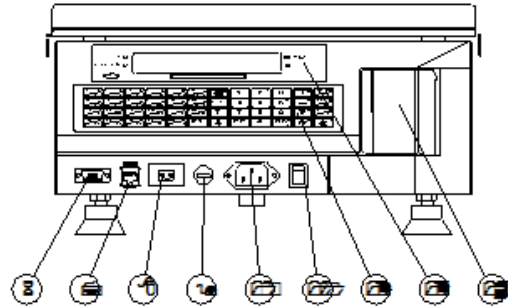
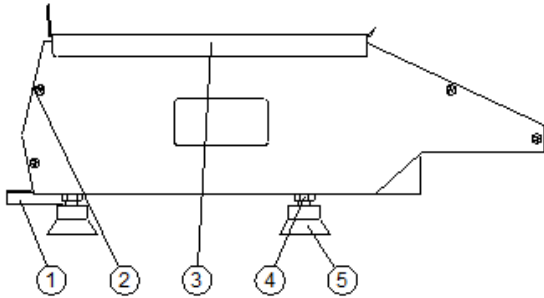
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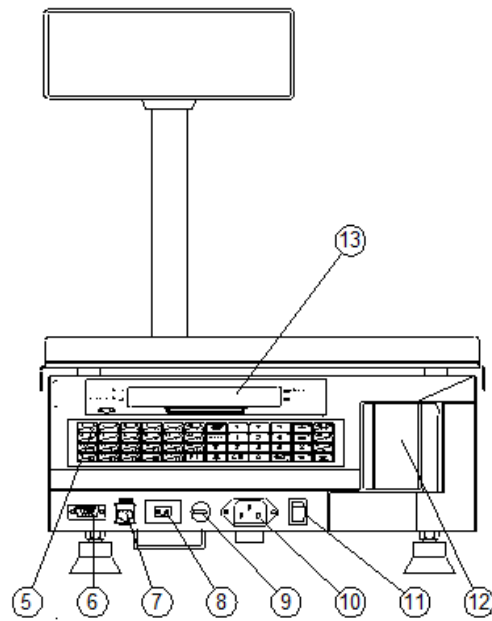
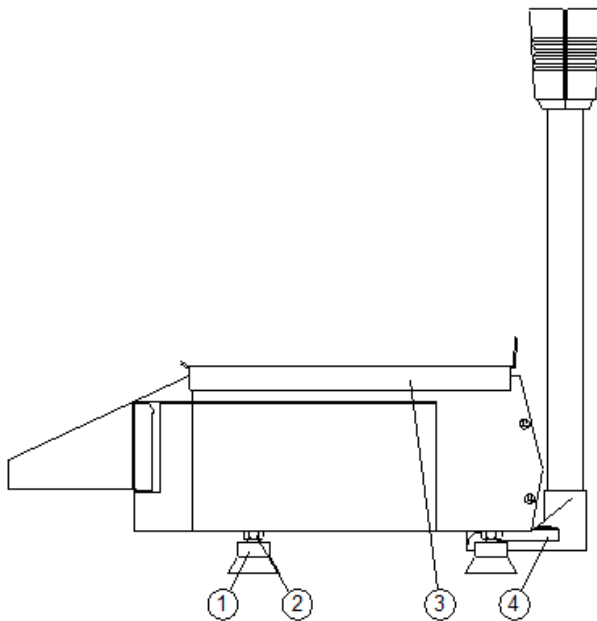
1. SCALE COMPONENTES

1.1. MODEL PL (PLANE)



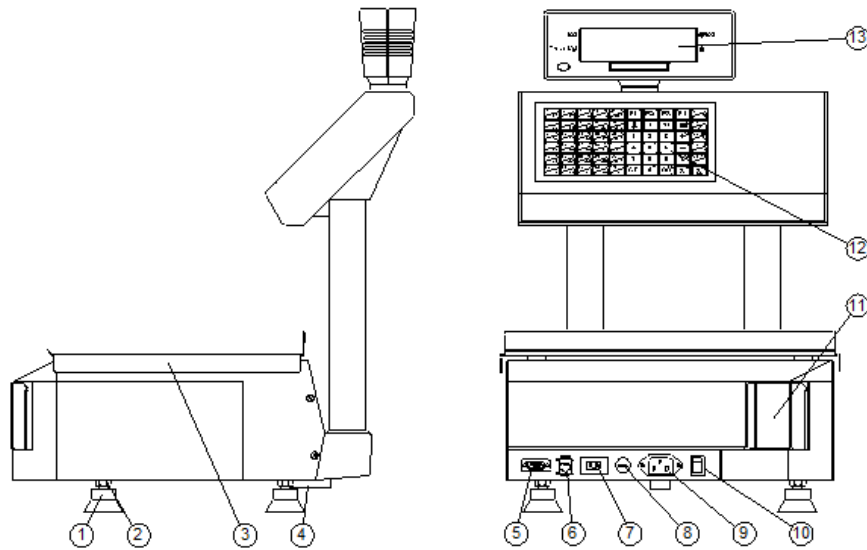
- | | |
|-------------------------------------|---------------------------------------|
| 1 LEVEL | 8 EXTERNAL BATTERY CONNECTOR (OPTION) |
| 2 DISPLAY COSTUMER | 9 FUSE HOLDER |
| 3 PLATE | 10 POWER CORD CONNECTOR |
| 4 FOOT LOCKNUT | 11 MAIN SWITCH |
| 5 FOOT | 12 KEYBOARD |
| 6 INTERCONNECTION OR RS232 (OPTION) | 13 DISPLAY SELLER |
| 7 ETHERNET CONNECTOR | 14 PRINTER |

1.2. MODEL TR (TOWER)



- | | |
|-------------------------------------|---------------------------------------|
| 1 FOOT | 8 EXTERNAL BATTERY CONNECTOR (OPTION) |
| 2 FOOT LOCKNUT | 9 FUSE HOLDER |
| 3 PLATE | 10 POWER CORD CONNECTOR |
| 4 LEVEL | 11 MAIN SWITCH |
| 5 PRINTER | 12 KEYBOARD |
| 6 INTERCONNECTION OR RS232 (OPTION) | 13 DISPLAY SELLER |
| 7 ETHERNET CONNECTOR (OPTION) | |

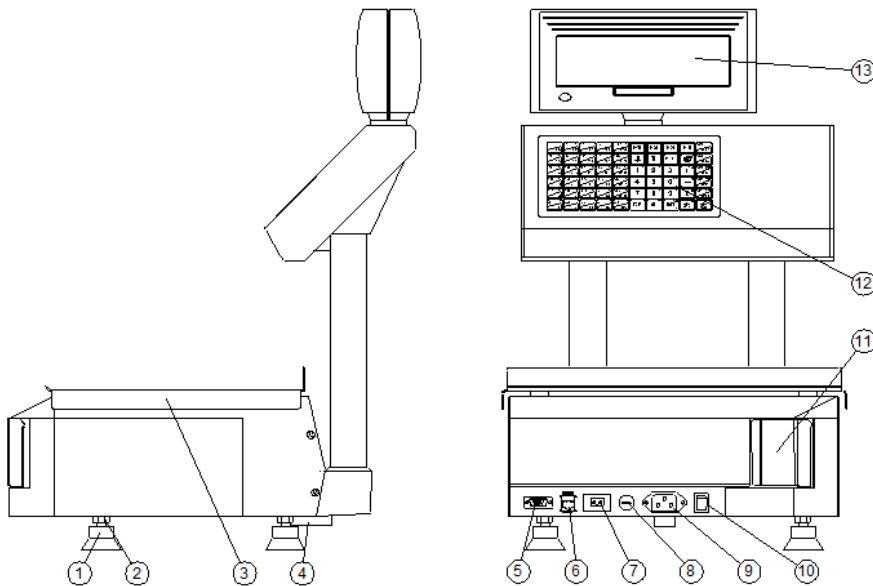
1.3. MODEL DC (TWO BODIES)



- 1 FOOT
- 2 FOOT LOCKNUT
- 3 PLATE
- 4 LEVEL
- 5 INTERCONNECTION OR RS232 (OPTION)
- 6 ETHERNET CONNECTOR (OPTION)
- 7 EXTERNAL BATTERY CONNECTOR (OPTION)

- 8 FUSE HOLDER
- 9 POWER CORD CONNECTOR
- 10 MAIN SWITCH
- 11 KEYBOARD
- 12 PRINTER
- 13 DISPLAY

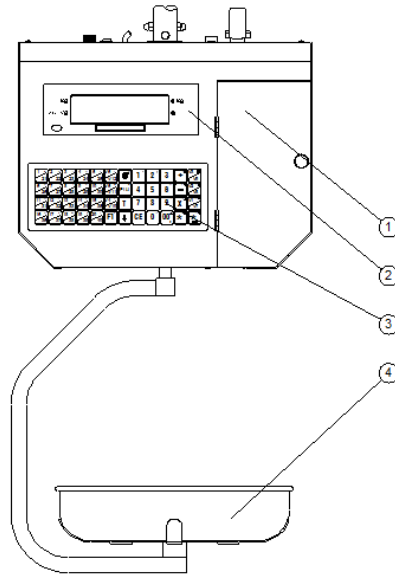
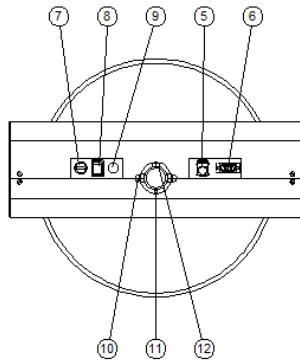
1.4. MODEL DV (TWO BODIES GRAPHIC)



- 1 FOOT
- 2 FOOT LOCKNUT
- 3 PLATE
- 4 LEVEL
- 5 INTERCONNECTION OR RS232 (OPTION)
- 6 ETHERNET CONNECTOR (OPTION)
- 7 EXTERNAL BATTERY CONNECTOR (OPTION)

- 8 FUSE HOLDER
- 9 POWER CORD CONNECTOR
- 10 MAIN SWITCH
- 11 KEYBOARD
- 12 PRINTER
- 13 DISPLAY

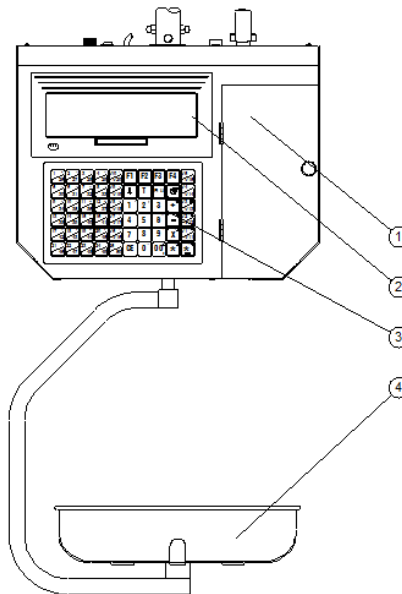
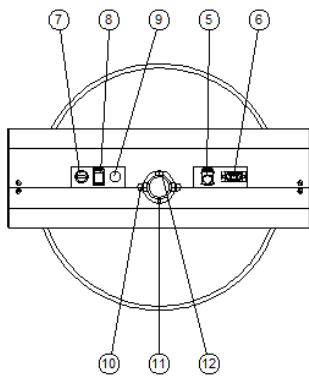
1.5. MODEL SC (HANGING)



- 1 PRINTER
- 2 DISPLAY SELLER
- 3 KEYBOARD
- 4 PLATE
- 5 ETHERNET CONNECTOR (OPTION)
- 6 EXTERNAL BATTERY CONNECTOR, INTERCONNECTION OR RS232 (OPTION)

- 7 FUSE HOLDER
- 8 MAIN SWITCH
- 9 POWER CORD
- 10 BOLT CLAMPING
- 11 SCREW BRAKE
- 12 SCREW CLAMPING

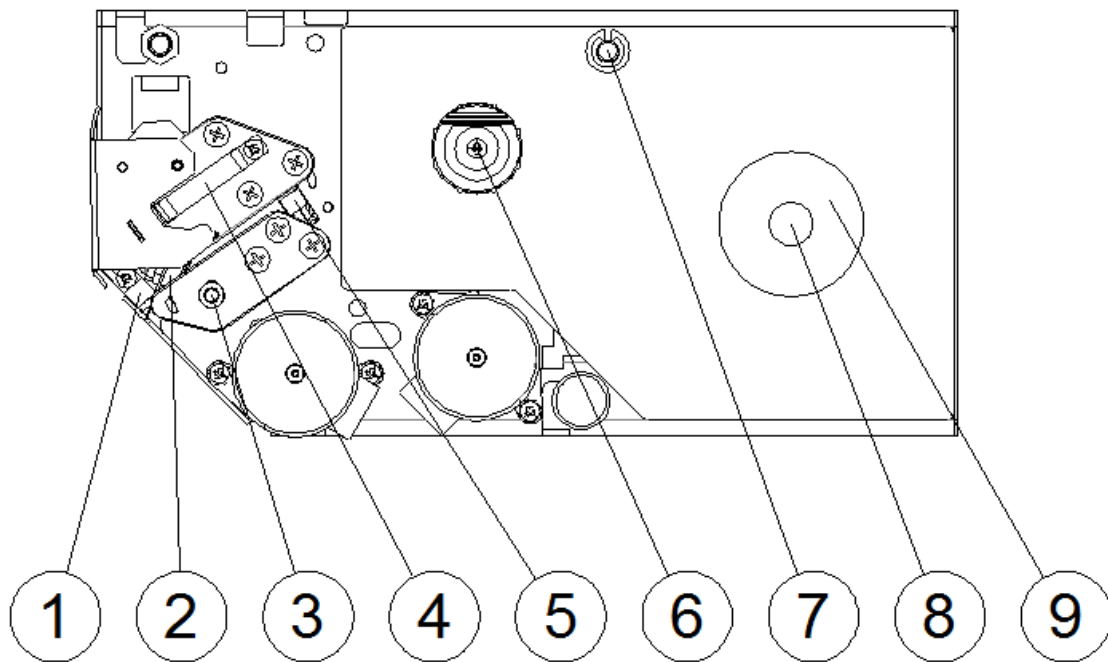
1.6. MODEL SV (HANGING GRAPHIC)



- 1 PRINTER
- 2 DISPLAY SELLER
- 3 KEYBOARD
- 4 PLATE
- 5 ETHERNET CONNECTOR (OPTION)
- 6 EXTERNAL BATTERY CONNECTOR, INTERCONNECTION OR RS232 (OPTION)

- 7 FUSE HOLDER
- 8 MAIN SWITCH
- 9 POWER CORD
- 10 BOLT CLAMPING
- 11 SCREW BRAKE
- 12 SCREW CLAMPING

1.7. VIEW PRINTER TICKETS-LABEL

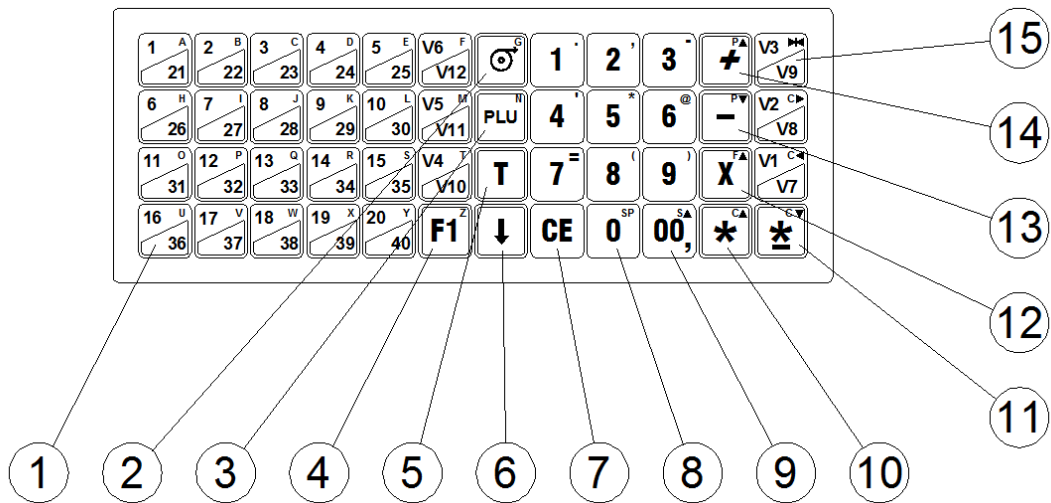


- 1 SENSOR THERMAL HEAD OPEN
- 2 THERMAL HEAD
- 3 BOLT
- 4 OPENING LEVER HEAD
- 5 POSITION SENSOR LABEL

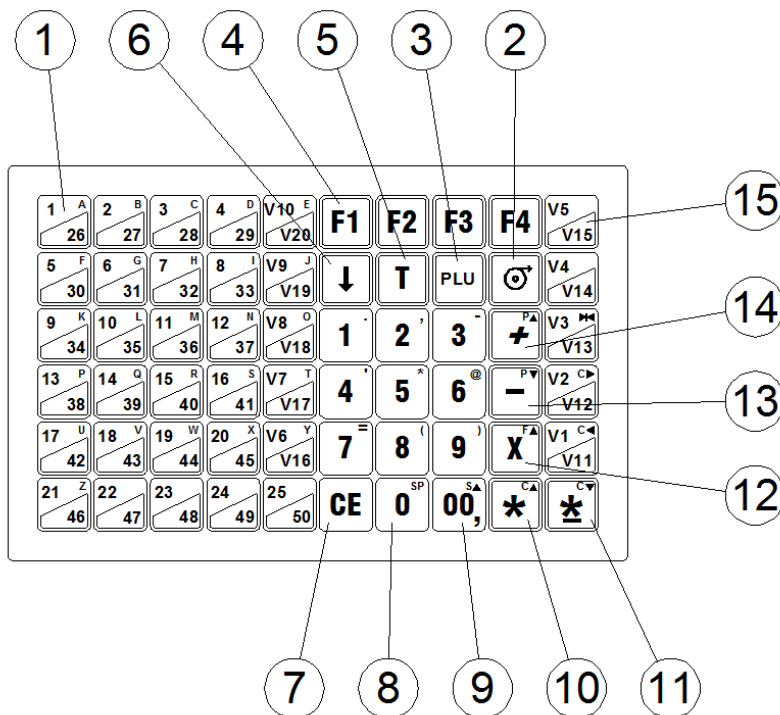
- 6 REWINDER
- 7 GUIDE FOR SETTING THE WIDTH OF THE PAPER
- 8 AXIS OF CONTINUOUS ROLL PAPER
- 9 AXIS OF ROLL LABEL

2. KEYBOARD

2.1. KEYBOARD 12V



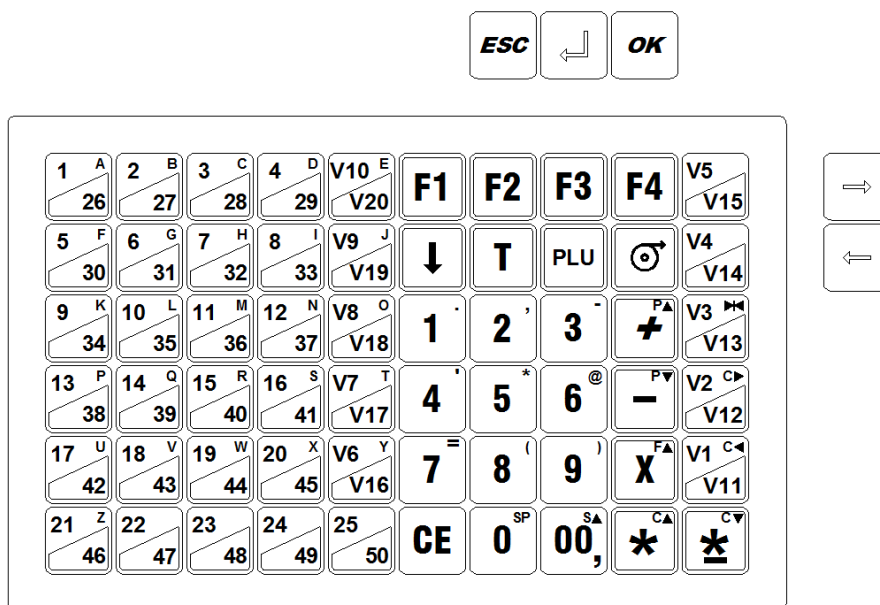
2.2. KEYBOARD 20V



- | | |
|---|---|
| 1 DIRECT AND SEMIDIRECT PLUS KEYS | 9 DOUBLE ZERO, COMMA KEY |
| 2 PAPER FEED KEY | 10 SUBTOTAL KEY |
| 3 INDIRECT PLU KEY | 11 TOTAL WITH PRINTING KEY |
| 4 CAPTURE KEY BARCODE AND FIXING CHANGE | 12 MULTIPLICATION AND PROGRAMMATION INPUT KEY |
| 5 TARE KEY | 13 CONSTANT NEGATIVE AND CANCELLATION OF OPERATIONS KEY |
| 6 SHIFT KEY (PLUS, SELLERS AND TARES) | 14 CONSTANT POSITIVE KEY |
| 7 CLEAR KEY | 15 SELLERS KEYS |
| 8 NUMERIC KEYS | |

2.3. SPECIAL FEATURES KEYBOARD 20V

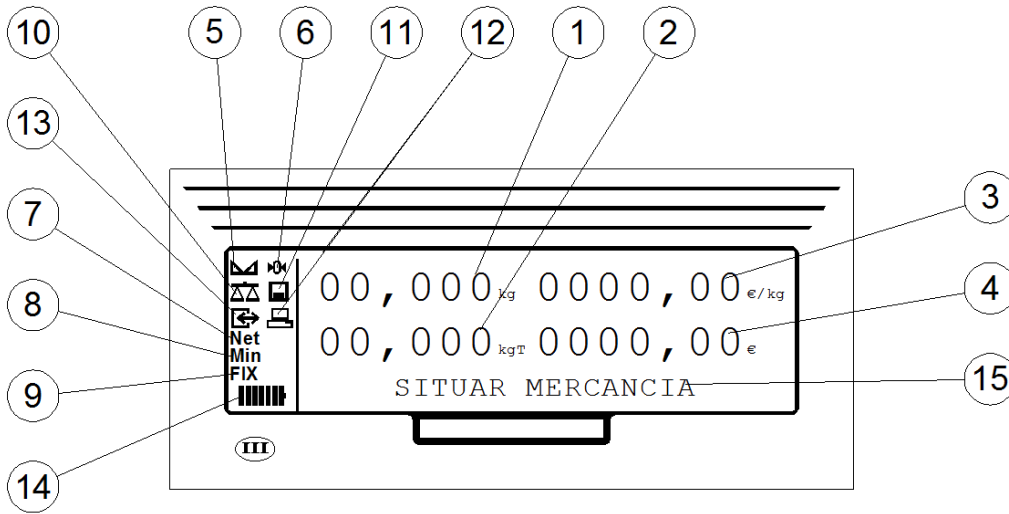
The keyboard of 20 sellers has special functions for the manual design of labels that haven't the keyboard of 12 sellers. Keys are shown in the follow drawing.



3. SCALE INDICATORS

3.1. GRAPHIC DISPLAY

There are two sizes of graphic display depending on the model of the scale, but both have the same format.



- | | |
|---------------------------|---------------------------------------|
| 1 WEIGHT DISPLAY | 8 MINIMUM WEIGHT INDICATOR |
| 2 TARE DISPLAY | 9 FIXED PRICE INDICATOR |
| 3 PRICE DISPLAY | 10 INTERCONNECTION INDICATOR |
| 4 TOTAL DISPLAY | 11 LABEL PRINTER CONNECTION INDICATOR |
| 5 STABLE WEIGHT INDICATOR | 12 ETHERNET CONNECTION INDICATOR |
| 6 CERO INDICATOR | 13 SENDING DATA TO PC INDICATOR |
| 7 NET WEIGHT INDICATOR | 14 BATTERY CHARGE INDICAYOR |

4. TECHNICAL SPECIFICATIONS

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

4.1. INDIVIDUAL TECHNICAL SPECIFICATIONS

MODEL	PL	TR	DC	DV	SC	SV
TYPE	DESK	DESK	DESK	DESK	HANGING	HANGING
DIM WxLxH (mm)	373X447X172	373X497X471	373X447X548	373X452X585	379X330X700	379X330X700
WEIGHT	9,55 kg	7,3 kg	11,3 kg	14,9 kg	11,85 kg	11,4 kg
SELLERS	12 (6+6)	12 (6+6)	20 (10+10)	20 (10+10)	12 (6+6)	20 (10+10)
DIRECT PLU KEYS	40	40	50	50	40	50

4.2. GENERAL TECHNICAL SPECIFICATIONS

SCOPE	6 kg	15 kg	30 kg
STEPS OIML	2g	5 g	10g
DIVISIONS OIML	3000	3000	3000
STEPS NON OIML (NO RETAIL)	0.5g/1g	1g/2g	2g/5g
DIVISIONS NON OIML (NO RETAIL)	12000/6000	15000/7500	15000/6000
FAMILIES	30		
PROGRAMMED PRICES (PLUS)	2000		
PLU FIELDS	NAME, PRICE, MODE OF WORK, ASSOCIATED TARE, FAMILY, BARCODES, INPUTS, STOCK, MINIMUM, ASSOCIATED LABEL, INGREDIENTS, DAYS EXPIRY AND TWO TEXTS ASSOCIATES.		
PROGRAMMED TARES	10		
TYPES OF VAT PER FAMILY	5 (FROM 0,01 % TO 99,99 %)		
PRICE	5 DIGITS		
MAXIMUM MULTIPLICATION	99		
AMOUNT	6 DIGITS		
CHANGE INPUT	6 DIGITS		
TOTAL	8 DIGITS		
CUSTOMER OPERATIONS	60		
GREAT TOTAL	10 DIGITS		
GREAT TOTAL DAILY	40 DAYS BY SELLER		
CAPACITY MEMORY FISCAL	9000 TICKETS (MEDIA) OR 21500 OPERATIONS		
OPERATION FOR PLU AND FAMILY.	65.000		
UNITS NO WEIGHED BY PLU AND FAMILY	65.000		
ACCUMULATED WEIGHT FOR PLU AND FAMILY	400.000.000 g		
ACCUMULATED AMOUNT BY PLU AND FAMILY	10 DIGITS		
CUSTOMERS GREAT TOTAL	65.000		
BAR CODE	PROGRAMMABLE BY THE USER		
ETHERNET CONNECTION	STANDARD FOR THE PROGRAMMATION AND DATES DOWNLOAD		
NOMINAL INPUT VOLTAGE	UNIVERSAL 90/230 VAC 50/60 Hz		
POWER	Máx. 40 W		
FUSE	5 X 20 mm, 1,5 A, 250 V, Type T (slow fussion)		
INSTALATION AND OVERVOLTAGE CLASS	II		
OPERATING TEMPERATURE	0 °C / 40 °C		
OPERATING HUMIDITY	20%-80%		

4.3. PRINTER TECHNICAL SPECIFICATIONS

PRINTING METHOD	DIRECT THERMAL
PAPER TYPE	LABELS OR THERMAL PAPER
PRINTING SPEED	120 mm / sec MAX
MAXIMUM WIDTH OF PRINTING	56 mm
MAXIMUM WIDTH PAPER HOLDER	62 mm
NUMBER OF POINTS BY LINE	448
POINT SIZE (mm)	0,125mm X 0,125mm
MAXIMUM LABEL LENGTH	100 mm
DETECTION PAPER / LABELS	OPTO SENSOR
SENSOR TEMPERATURE HEAD	THERMISTOR
SENSOR OPEN HEAD	OPTO SENSOR
LIFE HEAD	PULSE 5x10', 50 km ABRASION
LIFE MECHANICAL	100 km PAPER / LABELS
SEPARATOR LABEL	AUTOMATIC

4.4. OPTIONAL SPECIFICATIONS

- INTERCONNECTION BETWEEN SCALES
- OUTPUT CASH DRAWER
- OUTPUT RS232
- EXTERNAL BATTERY

5. PRECAUTIONS ON INSTALLATION

5.1. WARNINGS

READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU PUT THE EQUIPMENT IN OPERATION. CONTAINS IMPORTANT INFORMATION FOR USER'S SECURITY AND EQUIPMENT'S USE.

MANUFACTURER ASSUMES NO RESPONSIBILITY IF NOT LOOK THE INSTRUCTIONS OF THE MANUAL.

5.2. PRECAUTIONS ON INSTALLATION

The environmental conditions can affect the performance and accuracy of the equipment.

Avoid the following conditions:

- Areas where the temperature and humidity are high or low or positions close to the fire: For example, some boilers, stoves or other sources of heat, water outlets or humidifiers.
- Do not leave your equipment exposed to direct sunlight or in the interior of a closed car: High temperatures could reach to damage electronic components.
- Never work in the rain: In the event of having to work abroad keep your equipment protected under an awning.
- Avoid excessive dust: Small particles of sand can deteriorate the thermal printer head.
- Rapid changes in temperature: Sudden changes in temperature can lead to condensation that can affect the accuracy of the equipment.
- Air flow on the platform, since it can vary the presentation of the equipment.
- Electromagnetic Fields: For example stations or mobile phones, as they may affect the accuracy of the equipment.

6. INSTALLATION

1. Choose a suitable place for installation. Have at least 80cm by the user side to be able to comfortably conduct the operations of weight, and leaves open the platform for placing and removing loads.
2. Before connecting the equipment to the platform we must levelling the platform, turning the legs and trying to be sitting well.
3. Connect the cable from the platform to the connector (4) of the equipment.
4. Connect the cable RS232 from the computer to connector (5) of the equipment (optional).
5. Connect the cable RJ45 from the computer to connector (6) of the equipment (optional).
6. Connect the external battery cable to connector (10) of equipment (optional).
7. Insert the supplied power cord into the connector (7) of the equipment by pressing firmly and plug the other end of the cable into a wall socket with appropriate ground system, the manufacturer assumes no liability for accidents or malfunctions due to the lack of ground system.
8. Do not connect other devices to the same electrical outlet where the equipment is connected.
9. Attach the support (11) to a team's bench or the wall and tilt it to improve the visibility of the display.

7. PRECAUTIONS FOR USE

- If the power cord is damaged, contact your nearest dealer for repair: for example cuts or cracks, as there may be a risk of fire or electric shock.
- The power cord must be connected to the equipment first and then to the outlet, never the opposite. To disconnect the equipment from the power supply must be disconnected from the wall outlet, never from the connexion of the equipment.
- Avoid excessive bending and not pull the cord when you disconnect, use the plug.
- Disconnect the equipment if you're not going to use it for long time period.
- Do not leave objects too heavy on the platform.
- To prevent electrical shocks, do not open your equipment, there are no user-serviceable parts inside it. Leave the technical service in the hands of qualified staff.
- To start work on the equipment turn on the switch (8) located at the rear. If the power fail while the equipment is turned on, with the restoration of the same, the equipment automatically turns on. To turn off the equipment again actuate the switch (8).
- CAUTION: RISK OF EXPLOSION IN CASE OF REPLACEMENT OF THE BATTERY BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- CAUTION: PART MOBILE. READ THE MANUAL.



8. MANUAL FOR USE

TO CHANGE MODE TICKETS TO LABEL MODE AND VICE VERSA Press "↓" AND "⌂" (IF SYMBOL 11 IS LIT THE LABELING MODE IS ON)

8.1. WORKING MODES AND TIMES OF DISPLAY

8.1.1. WORKING MODES

The transactions, for which prices are obtained through any of the 2000 programmed prices (PLUS), as well as having name and price, are stored in their associate family. The totals are obtained by families with their PLUS associate. Programmed prices are modifiable unless you mark as protected.

- **PLU Mode; code 000920:**
Only works with programmed prices (protected or not). Faster access to PLUS..
- **PRICES PROTECTED mode; code 000870:**
Programmed prices, PLUS, may not be modified. With PROTECTED Mode off, you can PROTECT individually every PLUS desired.
- **ONLY ONE OPERACIÓN mode; code 000900:**
Each transaction generates a printed ticket.
- **VAT mode; code 000880:**
Totals are printed with the VAT displayed.
- **TICKET FISCAL STORE mode; code 000840:**
Are saved all the machine operations up to fill the memory.

	YES	NO
PLU MODE	[000920]	[000930]
PRICES PROTECTED	[000870]	[000860]
ONLY ONE OPERACIÓN	[000900]	[000910]
VAT SHOWN	[000880]	[000890]
TICKET FISCAL STORE	[000840]	[000850]
BARCODE	[000960]	[000970]
CASHIER'S CHECK	[000940]	[000950]

8.1.2. TIMES OF DISPLAY

The user can configure the times of display of some events that suit their taste:

- Time shows the total.
- Time that will show the names of the programmed PLUS.
- Time that will show the PLUS unprogrammed.
- Time that will show the vendors open.
- Time that will show the amount.
- Time of duration of beep.
- SCANNER readout mode.

These functions are explained in detail in the F4 function of the machine settings.

8.1.3. LABELER WORKING MODES

- **Mode WEIGHT STABLE; code 000620:** When the weight is stable a label is printed. If a PLU is selected, the label associated with this PLU is printed, otherwise the default "Label Weight" is printed.
- **ACCUMULATION OF OPERATION Mode; code 000660:** Whenever we do an accumulation, a label is printed, as in the mode WEIGHT STABLE. If a PLU is selected, the label associated with this PLU is printed, otherwise the default "Label Weight" is printed.
- **CLOSE SELLER Mode; code 000640:** Whenever a seller is closed, a label is printed with the total amounts and the total weight of the seller.

Note 1: All modes are supported at a time, but if the modes CLOSE SELLER and ACCUMULATION OF OPERATION are enabled on the label, every time a transaction is made, two labels, one for ACCUMULATION and one for CLOSE are generated.

8.2. PRELIMINARY CONSIDERATIONS

The equipment is initially in the following state: erased the lines of header an farewell, message, PLUS names, family names, sellers names, prices, VAT type, associations, operations, total partial (seller, family and department), great totals and programmed tares.

The working modes: PLU MODE, PRICES PROTECTED, ONLY ONE OPERACIÓN, VAT SHOWN, TICKET FISCAL STORE, BARCODE and CASHIER'S CHECK disabled.

Bar code format 25MWCCIII.

Times of display in 2.5 seconds

Currency Decimal Number 2 (Euro).

GREAT TOTAL erasing code **999999**.

WHEN TURN ON, THE SCALE SHOW FIRST THE VERSION (Ej. 20V2.20GLP).

AFTER, SHOW THE WORD TEST, WITH A NUMBER DECREASING FROM 9 TO 0.

WHILE DISPLAY TEST, YOU CAN ENTER IN FUNCTION BY **PRESSING X [F▲] (12)**.

GETS ZERO (Show -0-), THIS MAY TAKE A FEW SECONDS.

IF THERE IS NO ERROR THE SCALE IS IN OPERATION.

8.3. INDICATORS

8.3.1. **STABLE WEIGHT INDICATOR (5)**

Lights to indicate that stable weight

8.3.2. **ZERO INDICATOR (6)**

Lights to indicate the zero of equipment, If there is residue on the platform, the indicator can be turned off and the **weight display (1)** show zero.

8.3.3. **NET WEIGHT INDICATOR (7)**

Lights to indicate that the weight presented in the **weight display (1)** is net (gross less tare).

8.3.4. **MINIMUM WEIGHT INDICATOR (8)**

Lights to indicate the area where the percentage error of weight is high (rules). NO LABELS PRINTED BELOW THE MINIMUM WEIGH.

8.3.5. **FIXED PRICE INDICATOR (9)**

Lights to indicate that the price is not deleted when you remove the merchandise from the platform.

8.3.6. **INTERCONNECTION INDICATOR (10)**

Lights to indicate that the equipment is working in a network.

8.3.7. **LABEL PRINTER CONNECTION INDICATOR (11)**

Lights to indicate that the equipment is connected to a label printer.

8.3.8. **PC CONNECTION INDICATOR (12)**

Lights to indicate that the equipment is connected to a PC through the ETHERNET connexion.

8.3.9. **DATA SEND TO PC INDICATOR (13)**

Lights to indicate that the equipment is sending or receiving data from the PC.

8.3.10. **BATTERY CHARGE INDICATOR (14) not applicable.**

8.4. WEIGHTING OPERATIONS

8.4.1. **WEIGHTING**

Place the goods on the plate. The weight of the goods is indicated in the **weighting display (1)**

8.4.2. TARE

Place the container to Weigh on the platform and press the **T (5)**. The indication of weight will be zero; the tare weight will be indicated in the **tare display (2)** and **net weight indicator (7) lights**. You can increase the value of the tare if you tare again.

8.4.3. PRESSETING TARE

If preset tares are programmed on your equipment, press **SHIFT (6)**, press **T (5)**, introduce the number of programmed tare (1 to 10) with the numeric keys and press **T (5)**. The indication of weight will be ---- (underweight). When the weight placed on the platform is greater than the tare weight, shows the net weight in the **weight display (1)**, the value of the tare in the **tare display (2)**, and **net weight indicator (7) lights**.

8.4.4. ANNULATION OF TARE

Remove any goods which may have been on the platform and press **T (5)**. The indication of weight will be zero, the **zero indicator (6) lights** and turns off the **tare display (2)**.

8.5. OPERATIONS WITH WEIGHT

PRESS THE KEY CE (7) TO DELETE PRICES

In weighing operations, first must place the goods on the plate to prevent erase device by zero weight (unless has been programmed the PLU time), except in the MODE PLU (code 000920), in which the device is not operational.

8.5.1. PRICE INTRODUCTION

Enter the price using the **numeric keypad (8)** which is displayed in the **display of Price (3)**, the result of the weight for the price is displayed in the **display of amount (4)**.

8.5.2. PROGRAMMED PRICE INTRODUCTION (PLUS)

The balance can be up to 2000 prices programmed in memory (PLUS):

- **1 to 25 in keyboard 20 V / 1 to 20 in keyboard 12 V - direct:** press the corresponding key on the keyboard of Direct PLUS (1).
- **26 to 50 in keyboard 20 V / 21 to 40 in keyboard 12 V - semi direct:** press the **shift key (6)** and the corresponding key on the keyboard of Direct PLUS (1).
- **51 to 2000 in keyboard 20 V / 41 to 2000 in keyboard 12 V - indirect:** enter with the **numeric keypad (8)** the number of PLU and press the **PLU key (3)** again.

Enter the number of the PLU as noted above, the price of the PLU will be displayed on the display price (3), the result of the weight for the price will be displayed on the display of amount (4).

The PLUS, which have assigned a bar code can be read directly with a SCANNER. To enter it manually, if you can't read it, press the **shift key (6)** and **00 S ▲ (9)** and enter it manually using the keypad to confirm or exit press the **shift key (6)** and **00 S ▲ (9)**.

8.5.3. PLU PRICE MODIFICATION

Only for PLUS not defined like protected and with the machine with the prices unprotected; code 000860

Select the PLU with the price programmed, enter the new price. If you want to program the price of the PLU for subsequent operations, press the **F1 key (4)**, the scales gives two beeps, the second to indicate the price has changed.

8.5.4. DISCOUNT ONLINE (ONLY FOR SCALES OF 20 SELLERS)

This discount it's applied to transactions of weight, price and amount and to weighed PLUs, even if they are protected and the machine it's with prices protected; code 000870

If you want to apply a discount to a weighed product (from 1% to 99%) when the machine is showing the weight, price and amount, you have to press the **F2 key**, then the machine presents "dto% 0", you have to enter the discount in integers numbers and press **F2** again, the product price with the discount is displayed.

8.5.5. QUICK CHANGE OF PRICES OF VARIOUS PLUS

If we want to change the price on several PLUS (which are unprotected) from any machine in the network without entering in the programming functions, press the **shift key (6)** and **PLU (3) key**, the display shows the number of PLU , price and name. Press the **keys + (14)** or **- (13)** to move forward or backward between PLUS or **PLU key (3)** to advance 50 PLUs. When we reach to a PLU that we want to change the price; type it and continue till we have modified the PLUS desired. To exit the function press the **shift (6)** and **PLU (3) keys**.

8.5.6. FIXING PRICE

If we make several weighings of a product, we can make the machine don't clear the price for not having to type it every time. Situate the goods on the plate, enter the price with the **keypad (8)**, or the programmed price and press the **key + (14)**, the **fixed price indicator (9)** lights. From this moment the price is not erased even if the weight is zero.

To override the pricing press **CE (7) key** and **indicator fixed price (9)** turns off.

8.6. ADDITION OF AMOUNTS

FOR ACCUMULATE AMOUNTS, THE WEIGHT HAS TO BE STABLE.

NOTE: If you do not use fixed sellers, to know what seller is available press the F1 key (5).

To build up the amounts in one of the sellers press the corresponding button on the **seller (15)** or **SHIFT (6)** and **Seller (15)**, in order to accumulate to the sellers 10 to 20 (20V) or to the sellers 7 to 12 (12 V). The scale gives two beeps to indicate the accumulation

8.7. OPERATIONS WITHOUT WEIGHT

PLUS defined as NOT WEIGHED (Types 2 and 3) go directly into OPERATIONS WITH PRODUCTS NOT WEIGHTED.

The PLUS cannot be subtracted.

8.7.1. ADDITION AND SUBTRACTION

Push **+** (14) (show "E" in the weight display)
 If you want to subtracts press the **key - (13)** (show "-E" in the weight display)
 Enter the programmed PLU, if desired and the weight with the **numeric keys (8)**
 Push **seller (15)** (double beep to indicate the Accumulation)

8.7.2. SUSTRACTION

Push **- (13)** (show "-E" in the weight display)
 Enter the programmed PLU, if desired and the weight with the numeric keys (8)
 Push **seller (15)** (double beep to indicate the Accumulation)

8.7.3. POSITIVE AND NEGATIVE MULTIPLICATION

Push **+** (14) (show "E" in the weight display)
 Enter the programmed PLU, if desired and the weight with the **numeric keys (8)**
 Push **X (12)** (show "P" in the weight display)
 If you want to subtracts press the **key - (13)** (show "-P" in the weight display)
 Type the products number
 Push **seller (15)** (double beep to indicate the Accumulation)

8.7.4. NEGATIVE MULTIPLICATION

Push **- (13)** (show "-E" in the weight display)
 Enter the programmed PLU, if desired and the weight with the numeric keys (8)
 Push **X (12)** (show "-P" in the weight display)
 Type the products number
 Push **seller (15)** (double beep to indicate the Accumulation)

8.8. TOTALS

The operation number 60, activates the impression of total seller.

In **ONLY ONE OPERATION** mode (code 000900), the printing is done every operation of accumulation.

In these cases you may **NOT** have ticket continuation.

8.8.1. TOTAL WITH INVOICE

Push */ (11), show TOT
 Push seller (15) or **SHIFT (6)** seller (15).

Show seller number, total net with sign and print the ticket

Double beep when closing the seller or, if the seller was closed, print **COPY OF THE TICKET**

To exit push **CE (7)**.

Notes:

If code 000880 is set, prints the totals by type of tax.

If code 000940 is set, prints on the cash receipt.

If code 000960 is set, prints the bar code.

8.8.2. SIMPLIFIED INVOICE

The Order 1619/2012 concerning simplified invoice indicates that the invoice must contain:

- The data and the **VAT identification number** of the seller are to be programmed in one of the header or farewell lines.
- If there's a single **tax** just write "**TAX included**" in one of the header or farewell lines
- If there are multiple taxes we must specify the tax distribution with the taxable amount of each. To do this we have to program tax rates (see 9.15 - **F13 PERCENTAGES VAT**), assign the tax to the families (see 9.16 - **F14 TYPE OF TAX ASSIGNED TO FAMILIES**) and program the PLUS, associating the corresponding family and activate the tax distribution; code **000880**.
- The numbers of sequential invoice, for do this we have to activate the **TAX TICKET**, code **000840**. (The first time you active it you need to delete the tax ticket; code **000767**).
- If you want to enter customer data on the invoice, we have two lines of 24 characters. While in the normal screen, press **"* /" (11)** and then **"F1" (4)**. Press the key corresponding to the **seller (15)** edit the first line to the **VAT identification number** and if you want to put the name, press **"00" (9)** and edit the second line. When we're finished press **"F1" (4)** to leave. When the ticket is printed two lines after the invoice number will be printed.

8.8.3. SUBTOTAL CONSULTATION

If we want to know the total accumulated of a customer without closing the seller

Press the **key * (10)** shows TOT

Press **Seller (15)** or **SHIFT (6) + Seller (15)**.

The display show the number of the seller, Total net signed, the ticket is not printed the seller is not closed.

To exit press the **CE (7) key** or, if there's a programmed time of total, this will be deleted automatically after this time

8.8.4. INVOICE CONTINUACIÓN

Being in **TOTAL FROM A SELLER**, press the key of the seller to continue with the client.

Double beep, the second by open the customer.

Prints **INVOICE CONTINUACIÓN** and the previous and new operations.

8.8.5. OPERACIÓN CANCELATION

Being in total from a vendor, press **X (12)**, show

PESO PRECIO
 V? n? IMPORTE

Double beep, the second by opening customer.

Where V? is the seller number in which we are going to cancel the operation and n? the number of operation

Select with the **key + (14)** the operation to cancel or enter the operation number to cancel and press the **key - (13)**.

Double beep, the second by cancel operation.

Continue canceling operations or press the **key X (12)** to exit and print the new ticket with the canceled operations.

If you have not made any cancellation the ticket is printed when you exit.

8.8.6. CALCULATION OF CHANGE

Press - **(13)**, show

ENTRA
0.00
CAMBIO
?????

Enter the change and press * **(10)** or * / **(11)**, shows

Where ????? is the change to return. To print it press * / **(11)**.
To delete or leave without calculating the change press the **key CE (7)**.

8.8.7. TICKET COPY

Press the **key * / (11)**, and press the **seller (15)** or **SHIFT (6)** and **seller (15)**.
Shows the number of the seller, the total net with sign and it's printed one copy of last ticket of this seller.

8.8.8. LABEL COPY

Press the **key SHIFT (6)** and press the **key * (10)** or * / **(11)**. The scale repeats the last printed label.

8.8.9. FEED PAPER PRINTER

Press the **PAPER FEED key (2)**, hold it down while you want to feed paper into the printer

8.9. STOCK CONTROL OF PLUS (MODE PRINTER)

The stock control can be performed manually from the balance at any time. To do this, while the balance show zero in displays of weight, price and amount, **press * / (11)** and **DIRECT PLU keys**.
For example, if the **PLU 1** are apples and select the PLU, the scale prints a ticket with the following format:

```

LINE HEADER 1
LINE HEADER 2
LINE HEADER 3
LINE HEADER 4

STOCKS PLU (kg)
  HOUR AND DATE

  PLU0001 APPLES
Inputs:           0.000
Stocks:           0.000
Minimum:         0.000

MINIMUM LISTING
    
```

This would be the format if you have not entered PLU entries and have not programmed minimum.

8.9.1. INPUTS, OUTPUTS AND MINIMUM OF STOCK

If we make an entry of goods, modify or program minimum stock, we must go to the programming functions, select function 10 and select the number of PLU that you want to program.

8.9.2. MAKE AN INPUT

- 1 / press "00" until the balance show F10E?????.???
- 2 / press "+"
- 3 / enter the input of goods in grams
- 4 / Press "+" again

8.9.3. MODIFY STOCK

- 1 / press "00" until the balance show F10S?????.???
- 2 / press "+" or "-" to increase or decrease stock.
- 3 / enter the amount of goods in grams
- 4 / Press "+" or "-" again

8.9.4. PROGRAM MINIMUM

- 1 / press "00" until the balance show F10M?????.???
- 2 / press "+"
- 3 / enter the minimum in grams
- 4 / Press "+" again

Example: Suppose the PLU number 1 that you have made an entry of 50 kg and we have programmed a minimum of 10 kg. If you press "*" /" and "DIRECT PLU 1", the scale prints the following ticket:

```

LINE HEADER 1
LINE HEADER 2
LINE HEADER 3
LINE HEADER 4

STOCKS PLU (kg)
  HOUR AND DATE

PLU0001 APPLES
Inputs:           50.000
Stocks:           50.000
Minimum:          10.000

MINIMUM LISTING
    
```

Suppose that we made several sales of this PLU (42 kg). If you press "*" /" and "DIRECT PLU 1", the scale prints the following ticket:

```

LINE HEADER 1
LINE HEADER 2
LINE HEADER 3
LINE HEADER 4

STOCKS PLU (kg)
  HOUR AND DATE

PLU0001 APPLES
Inputs:           50.000
Stocks:           8.000
Minimum:          10.000

MINIMUM LISTING
    
```

If we make a new entry of merchandise of 30 kg you press "*" /" and "DIRECT PLU 1", the scale prints the following ticket:

```

LINE HEADER 1
LINE HEADER 2
LINE HEADER 3
LINE HEADER 4

STOCKS PLU (kg)
  HOUR AND DATE

PLU0001 APPLES
Inputs:           30.000
Stocks:           38.000
Minimum:          10.000

MINIMUM LISTING
    
```

NOTE: ALWAYS PRINTED LAST ENTRY.

IMPORTANT: When the stock of a PLU is requested; in the list of minimum PLUS will print all that are at a minimum, for example, if we ask the stock PLU 1 and PLU 2 and PLU 3 are under minimum, the ticket would be:

```

LINE HEADER 1
LINE HEADER 2
LINE HEADER 3
LINE HEADER 4

STOCKS PLU (kg)
  HOUR AND DATE

PLU0001 APPLES
Inputs:           30.000
Stocks:           38.000
    
```


Minimum: 10.000

MINIMUM LISTING

PLU0002 PEARS

Inputs: 40.000
Stocks: 7.500
Minimum: 10.000

PLU0003 ORANGES

Inputs: 100.000
Stocks: 13.200
Minimum: 15.000

8.9.5. FULL LISTING

If you want a complete list of all PLUS with the dates you have to use the technical code **000 100**. To do this, with the scale showing zero on the display of weight, price and amount, press the **key "X"** for two seconds, the first screen allows us to directly select a function, press again the **key "X"** and the scale goes to show **COD**, enter the code **000 100** and the scale will print a list of the status of the scale and the list of programmed PLUS, each with its entry (last), and minimum stock, if you have programmed.

8.10. CANCELLATION OF WEIGHTS PLUS (ONLY FOR MACHINES OF 20 SELLERS)

The cancellation of weight it's made to cancel operation tickets other than the latter (if it's the last ticket see section **8.8.5 OPERACIÓN CANCELLATION**).

To do this, being in operation (PLU), with weight, price and amount other than zero, then press the **key F3** and then, before a second, press the key of the corresponding seller.

The cancellation is done whenever the PLU has sufficient operations, kilos and Euros.

These cancellations are subtracted from the Grand Total, Total Seller and Total families. Are not recorded in the Grand Total daily either the list of tickets.

8.11. MESSAGES D'AVERTISSEMENT

Show NO PAPER There is no paper
Solution: Put paper into the printer.

Show HEAD-UP Printer head up
Solution: Place the head.

Show TEMPERATURE Head temperature high
Solution: Turn off the scale to allow the printer gets cold.

Show OUT OF MEMORY Memory full (fiscal version)
Solution: Print the ticket for the totals (COD 000200 to print the list of tickets and COD 000767 to delete all tickets and empty memory).

Show 2 MASTERS Two master machines on the network
Solution: Correct the number of the scales on the network.

Show 2 SLAVES Two slave machines with the same number
Solution: Correct the number of the scales on the network.

Show REVIEW DATA DF Usually occurs if the memory is broken
Solution: If it is common, is a technical error.

Show REVIEW DATA RAM Error in the programmed data
Solution: Check the data of PLUS, the names of families and departments and the head of the ticket (000100 code). Normally don't is significant, since the machine does not delete the data, but if repeated is a technical error.

Show REVIEW WEIGHT DATA Error of the weight data
Solution: Adjust the balance.

- Show WEIGHT OUT OF RANGE Error in the weight converter
Solution: Make sure the plate is well placed and do not touch it at all or that there is no overload. If it does not solve the problem is a technical error.
- Show FILE FAIL Transmission of files over the network fails
Solution: Set the new network scales.
- Show ERROR CLOCK Clock error
Technical error. The scale can work, but the clock data will be wrong.
- Show MAXIMUM MAT Mathematical maximum error
Solution: Ask GRAND TOTAL and delete the totals.
- Show DELIVERY MAL Error of the Change
Solution: We have tried to introduce a total negative change or the amount paid is less than the total. We must correct delivery.
- Show REMOVE TARE tare weight mistake
Solution: A PLU with tare was introduced and the balance is already tare. Tare the balance before entering the PLU
- Show NO LABEL The beginning of the label is not detected
Solution: Place the labels on the label printer
- Show CONTINUOUS PAPER Need continuous paper into the Label Printer
Solution: Put continuous paper into the Label Printer
- Show HEAD DAT Error in the transmission of data to the print head.
Solution: Stop the scale to restart the label printer.
If that does not help, it is a technical error. The scale can operate without print labels.
- Show DEFECTIVE MEMORY Memory error on the label printer
Solution: Remove the label formats or ingredients on the label, the memory may be full
- Show COMMUNICATION DEFECTIVE Communication error with the label printer
Solution: Error receiving the frame into the Label Printer. Reprint
- Show DEFECTIVE FORMAT Programming error in the label format. The field is incorrectly programmed or at the time of impression of this label may not get all the information. For example, PLU text and sends a transaction where there is no PLU
Solution: Press the CE key to exit the state and check the format assigned to PLU or examine the fields of the assigned label

9. MANUAL OF FUNCTIONS AND PROGRAMMATION

9.1. GENERAL

To enter in the programming functions of the equipment, press **X [F▲] (12)** while test or while normal operation, keeping down for 2.5 seconds (with weight zero and without tare scheduled). To exit the programming functions press **X [F▲] (12)** for 2.5 seconds or turn off the equipment.

The first screen that appears allows us to select the function number we want to program. Select it with the keyboard and press **X [F▲] (12)** or press repeatedly to show it.

If the scale is in a network, the MASTER has different functions that the SLAVE. The MASTER scale has all the parameters that are common in the network while the SLAVES scales are only the parameters of such equipment.

	MASTER SCALE FUNCTIONS	SLAVE
0	WORKING MODES CODES	-
1	PRINTING OF TOTALS FAMILIES	-
2	PRINTING (AND CLEAR) GREAT TOTAL	-
4	COMMUNICATION PROTOCOL	IDEM
5	DATE AND TIME	IDEM
7	HEADER AND FAREWELL LINES	-
8	SELLERS NAMES	-
9	FAMILIES NAMES	-
10	PLUS PROGRAMMATION	-
11	MESSAGE ADVERTISING	-
12	DIRECT PLUS KEYS TO PLUS ASIGNATION	IDEM
13	PERCENTAGE OF VAT	-
14	TIPE OF VAT ASSIGNED TO FAMILIES	-
15	BAR CODE	-
16	WEIGHT PARAMETERS	IDEM
17	NETWORK SCALE NUMBER	IDEM
18	TARES SETTING	-
19	NET SETTING FROM MASTER	-
20	SETTING THE IP ADDRESS OF THE SCALE	-
21	SETTING PORT OF THE SCALE	-

9.2. KEYBOARD FOR RECORDING

Almost every key have in the upper right part a letter or symbol of black color. The keyboard to record texts, or modify the values of the fields, consists of these keys plus the numeric keys. There are a number of special symbols whose meaning, for recording is as follows

- C □** INSERT A CHARACTER IN THE CURRENT POSITION
- C □** DELETE A CHARACTER IN THE CURRENT POSITION
- CENTER UP THE TEXT OF THE HEAD OR FAREWELL LINE (SET THE CURSOR ON THE LAST CHARACTER RECORDED)
- C ▲** INCREASES THE CHARACTER IN THE CURRENT POSITION
- C ▼** DECREASES THE CHARACTER IN THE CURRENT POSITION
- P ▲** INCREASES A POSITION. (You can also increase a field value).
- P ▼** DECREASES A POSITION. (You can also decrease a field value).
- F ▲** GO OVER THE FUNCTIONS
- S ▲** GO TO THE NEXT FIELD TO MODIFY INSIDE THE FUNCTION (THE SELECTED FIELD BLINK)

9.3. FO WORKING MODES CODES

Show	FO COD CODIG ACCESO	Type 000
Show	FO CLAVE 000 COD FUNCION	Type the last three numbers of code

TECHNICAL CODES:

- 000100** Print the **PROGRAMMATION STATUS** of equipment
- 000111** Factory internal use (**DON'T USE, LOST YOUR OWN INFORMATION**).

WORKING MODES ACTIVATION CODES:

- 000800** Enables message advertising different on each scale (**NET***)
- 000820** Enables header and farewell lines different on each scale (**NET ***).
- 000840** Enables save fiscal tickets (**NET ***).
- 000860** Enables PLUS prices free, without protection against price change.
- 000880** Enables DETAILS VAT mode
- 000900** Enables SINGLE OPERATION mode
- 000920** Enables PLU mode.
- 000940** Enables cash receipt.
- 000960** Enables bar code

CODE DE DÉSACTIVATION DU MODE DU TRAVAIL:

- 000810** Disables message advertising different on each scale (**NET***)
- 000830** Disables header and farewell lines different on each scale (**NET ***).
- 000850** Disables save fiscal tickets (**NET ***).
- 000870** Disables PLUS prices free, without protection against price change.
- 000890** Disables DETAILS VAT mode
- 000910** Disables SINGLE OPERATION mode
- 000930** Disables PLU mode.
- 000950** Disables cash receipt.
- 000970** Disables bar code

CODE LABELER:

- 000600** Enable continuous paper into the label printer
- 000610** Disable continuous paper into the label printer
- 000620** Enable weight stable mode for label printer
- 000630** Disable weight stable mode for label printer
- 000640** Enable closed mode seller for label printer
- 000650** Disable the seller for the label printer closed
- 000660** Enable accumulation mode for the label printer
- 000670** Disable the accumulation mode for the label printer
- 000710** Print quality 0 (lowest quality).
- 000711** Print quality 1
- 000712** Print quality 2
- 000713** Print quality 3
- 000714** Print quality 4
- 000715** Print quality 5
- 000716** Print quality 6
- 000717** Print quality 7(High quality).
- 000751** Initialize label printer (for security, when the label printer does not work).

TICKET FISCAL CODES:

- 000200** Print the list of tickets from the scale. If any error (missing paper) occurs, re-enter and resume printing where you left off.
- 000767** Clears the list of tickets from the memory of the scale

*** MODES IN NETWORK MUST BE MADE FROM MASTER AND WITH THE NETWORK RUNNING (SCALES INTERCONNECTED).**

DELETE CODES:

- 000222** Delete head and farewell lines (**NET ***).
- 000323** Delete labels
- 000340** Clears the list of ingredients
- 000341** Delete Format 1 label
- 000342** Delete Format 2 label
- 000343** Delete Format 3 label
- 000344** Delete Format 4 label
- 000345** Delete Format 5 label
- 000222** Delete the text header and farewell (**NET ***).
- 000333** Delete PLUS and his properties.
- 000444** Delete the text and the VAT associated with families.
- 000555** Delete message advertising (**NET ***).
- 000565** Delete key association
- 000666** Delete sellers names
- 000777** Delete the percentage of VAT rates.
- 000888** Delete Great Total

!!WARNING: DELETE ALL EQUIPMENT AND PUT IT IN INITIAL STATE FROM FACTORY!!

000999: Clears the grand total (GT), the serial number of the GT, the total families, the header and farewell ticket, the names of the vendors, family names, data PLUS the advertising message, the VAT rates, VAT assignment, the programmed tares, leave the default barcode, assign hot keys to their numbers PLUS deletes all label formats, clears the list of ingredients do the functions: **000222, 000333, 000444, 000555, 000565, 000666, 000777, 000888, 000810, 000830, 000850, 000870, 000890, 000910, 000930, 000950, 000970, 000767.**

9.3.1. PERSONAL SECRET CODE FOR DELETE GREAT TOTAL

The scale leaves factory with **GREAT TOTAL 999999**. This code allows delete the **GREAT TOTAL** of the scale from the **GREAT TOTAL** printing, by pressing the **CE key (7)**.

To change the code of delete GREAT TOTAL:

Show	F0 COD CODIG ACCESO	Type 000
Show	F0 CLAVE 000 COD FUNCION	Type 000
Show	SET GT NUEVO CODIGO	Type six digits, between 100000 and 999999

9.3.2. DELETE THE GREAT TOTAL BY PERSONAL SECRET CODE

Show	F0 COD CODIG ACCESO	Type six digits from secret code
------	------------------------	----------------------------------

The scale print the **GREAT TOTAL** y reset it. If the secret code does not act, indicates that the scale has been manipulated.

9.4. F1 PRINTING TOTAL FAMILIES

Show	F1 FD IMPRESIÓN FA	Press the key */ (11)
------	-----------------------	------------------------------

9.5. F2 PRINTING GREAT TOTAL

Show	F2 GT IMPRESIÓN GT	Press the key */ (11)
------	-----------------------	------------------------------

PRINTING THE "OPERATION CANCELLED": Press the key ***** (**10**).

TOTAL DAILY BY THE SELLER OF THE LAST 40 DAYS: Press the key **T (5)**.

DELETE THE GRAND TOTAL (if the delete code is 999999): Press the key **CE (7)**.

9.6. F4 COMMUNICATION MODES

Show F4 R 1 V ? Press the key + ▲ (14) or - ▼ (13)
COMUNICACIÓN

Press the key **00 S ▲ (9)** to move between fields and enter the new registry value using the numeric keypad. The registers are:

- R1: modes of serial communication (RS232), values of 0-5.
- R2: total sleep time, values from 0 to 20 (0 no turn off the total).
- R3: display time of the programmed PLU when no weight, values from 0 to 20 (0 no programmed PLU).
- R4: display time of the not programmed PLU values from 0 to 20 (0 does not clear the not programmed PLU, you must press CE (7)).
- R5: display time of the open sellers, values from 0 to 20 (0 no display the open sellers). To display open sellers when there's a display time, you must press the key F1 (5).
- R6: time duration of the buzzer, values from 0 to 10 (0 no buzzer).
- R7: display time of the amount (REMOVE GOODS), values from 0 to 10 (0 does not clear the amount you have to press the key CE (7)).
- R8: SCANNER reading mode: 0 normal codes, 1 codes with weight and 2 codes with amount.

As for the RS223 communication modes, there are six modes (always N81):

N never sends data.

C complete & continuously mode:

- Frame <02>XXXX.XXXgXXXX.XXXRXXXX.XXEXXXXX.XXIXVXXXXP<byte>L<03>
- Where <02> is start of transmission, g is the weight in kg with decimals, R is the tare in kg with decimals, E is the price with decimals, I is the amount with decimals, V seller number, P PLU number, L is operation and status byte and <03> is end of transmission.
- In the operation and status byte, the first four bits indicate the type of operation and the last four of the state flags:

bit7	bit6	bit5	bit4	type of operation	bit3	bit2	bit1	bit0
0	0	0	1	no operation	zero	tare	pmin	pfixed
0	0	1	0	PPI operation				
0	0	1	1	K operation				
0	1	0	0	K- operation				
0	1	0	1	X operation				
0	1	1	0	X- operation				
0	1	1	1	TOT operation				
1	0	0	0	open seller				
1	0	0	1	GRAND TOTAL				

E stable weight mode:

- Frame <02>XXXX.XXXgXXXX.XXXR<03>
- Where <02> is start of transmission, g is the weight in kg with decimals, R is the tare in kg with decimals and <03> is end of transmission.

OP by operation mode:

- Frame <02>XXXX.XXXgXXXX.XXXRXXXX.XXEXXXXX.XXIXVXXXXP<03>
- Where <02> is start of transmission, g is the weight in kg with decimals, R is the tare in kg with decimals, E is the price with decimals, I is the amount with decimals, V seller number, P PLU number and <03> is end of transmission.

DS on request always mode:

- The computer can send two commands: P<CR> to ask for weight o I<CR> to ask for weight, price and amount.
- Frame weight _XXXX.XXXg
- Where _ are white spaces and g is the weight in kg with decimals
- Frame WPA <02>XXXX.XXXgXXXX.XXXRXXXX.XXEXXXXX.XXIXVXXXXP<03>

- Where <02> is start of transmission, g is the weight in kg with decimals, R is the tare in kg with decimals, E is the price with decimals, I is the amount with decimals, V seller number, P PLU number and <03> is end of transmission.

DE on request with stable weight mode:

- The computer can send two commands: P<CR> to ask for weight o I<CR> to ask for weight, price and amount.
- Frame weight _XXXX.XXXg
- Where _ are white spaces and g is the weight in kg with decimals
- Frame WPA <02>XXXX.XXXgXXXX.XXXRXXXXX.XXEXXXXXX.XXIXXVXXXXP<03>
- Where <02> is start of transmission, g is the weight in kg with decimals, R is the tare in kg with decimals, E is the price with decimals, I is the amount with decimals, V seller number, P PLU number and <03> is end of transmission.

9.7. F5 DATE AND TIME

Show F5 H ? M ? Press the key **00 S ▲ (9)** to change field
 D ? M ? A ? Type the new value with the numerical keys

9.8. F6 MENU OF FORMATS OF LABELS

Show F6 and a menu with the following options:

- Select Format
- Creating Format
- Copy Format
- Editing Format
- Modes

Press the ***(10) key** or *** / (11) key** to move through the menu and when we are on the desired option, press the **F4 key**. To exit, press the **F2 key**.

9.8.1. SELECT FORMAT

It allows selecting one of the programmed formats into the scale to copy, edit or delete. Press the ***(10) key** or *** / (11) key** to move for the formats and press the **F4 key** to select it. If we want to remove a format, press the **V1 (C□) key** to confirm and press the **F4 key**.

9.8.2. CREATING FORMAT

Display a menu where you can set the height, width and name of the label (the number is automatically assigned). Press the key **00 S ▲ (9)** to change field. The height of the label can be changed by pressing the **keys * (10) or * / (11)**, if you press the **F3 key**, the scale automatically detects the top of the label. The width of the label can be changed by pressing the **keys * (10) or * / (11)**. Press the key **00 S ▲ (9)** to change field. Enter the new name with the alphanumeric keypad. To confirm press the **F4 key**.

9.8.3. COPY FORMAT

If we want to create a similar label to one that is already designed, we can copy the label and make small changes instead of creating it again. To do this first select the format to copy and press the **F4 key** to validate. Press the **keys * (10) or * / (11)** to select "COPY FORMAT" and press the **F4 key** to make the copy. An identical format to the selected it does generate with the name "formato_c".

9.8.4. EDITING FORMAT

If you want to edit a format, you must first select it and press the **F4 key** to validate. Press the **keys * (10) or * / (11)** to select "EDITING FORMAT" and press the **F4 key** to access editing. This opens a menu to add items to the label. This procedure is explained in the manual of the design of the label on the CD which goes with the scale. Although you can edit any type of label; is more comfortable do it with the DESIGNER LABEL program also included on the CD.

9.8.5. MODES

Display a menu where you can change the units of measurement (mm, inches, or pixels), the conversion factor of the second currency, and the second decimal currency.

Press the key **00 S ▲ (9)** to change field.

The units of measure can be changed by pressing the key *** (10)** or *** / (11)**.

The conversion factor of the second currency is introduced with the numeric keypad.

The second decimal currency can be changed by pressing the key *** (10)** or *** / (11)**.

To confirm, press the **F4 key**.

9.9. F7 HEADER AND FAREWELL LINES

Show	F7 L ? N ? ?	Press the key 00 S ▲ (9) to change field Type the new value with the numerical keys Values 1 to 6 (numerical keys).
where: L	Line number	1 - first header line (*) 2 - second header line (*) 3 - third header line 4 - fourth header line 5 - first farewell line 6 - second farewell line
where: N	Net machine number Text field (24 characters)	Values 0 to 9 (numerical keys). text keyboard (**)

(*)These lines are always printed in double size

(**)Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10)** or *** / (11)**

Note: For a sample of the header, move to the field L and press the * / (11) key.

9.10. F8 SELLERS NAMES

Show	F8 V ? ?	Press the key 00 S ▲ (9) to change field Type the new value with the numerical keys Values 1 to 20 (12 at 12V) (numerical keys).
where: V	Seller number Text field (16 characters)	text keyboard (*)

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10)** or *** / (11)**

9.11. F9 FAMILIES NAMES

Show	F9 F ? ?	Press the key 00 S ▲ (9) to change field Type the new value with the numerical keys Values 1 to 30 (numerical keys).
where: F	Family number Text field (16 characters)	text keyboard (*)

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10)** or *** / (11)**

9.12. F10 PLUS PROGRAMMATION

Show	F10 N ? ?	Where N is the number of PLU: values from 1 to 2000 (keypad) or + keys ▲ (14) or - ▼ (13) Press the key 00 S ▲ (9) to change field.
------	--------------	---

Show	F10 P ? ?	Where P is the price of PLU: 5 digits (numeric keyboard).
------	--------------	---

Press the key **00 S ▲ (9)** to change field

Show	F10 F ? ?	Text field (24 characters) text keyboard (*)
------	--------------	--

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10)** or *** / (11)**

NOTE: If you wish to cancel a text, write the character " " code (032) in the first position.
Press the key **00 S ▲ (9)** to change field.

Show F10 M ?
?

Mode and type of PLU: 0-3; keys + **▲ (14)** o - **▼ (13)**

- **Type 0: weighed and unprotected**
- **Type 1: weighed and protected**
- **Type 2: not weighed and unprotected**
- **Type 3: not weighed and protected**

Press the key **00 S ▲ (9)** to change field

Show F10 T ?
?

Where T is the tare associated PLU: 5 digits (numeric keyboard) or press the **T key (5)** and placed on the plate to tare weight. Press the **T key (5)** again to exit.

Press the key **00 S ▲ (9)** to change field.

Show F10 F ?
?

Where F is the family of PLU: values 1-30 (keypad).

Press the key **00 S ▲ (9)** to change field.

Show F10E?????.???
?

Where E is the amount of goods entered the last time. Press the **+ key (14)** to add an entry, enter the amount of goods and re-press the same key to confirm.

Press the key **00 S ▲ (9)** to change field.

Show F10S?????.???
?

Where S is the stock that we have of PLU, press the **+ key (14)** or the **- key (13)** to add or remove stocks from inventory and press again the same key to confirm.

Press the key **00 S ▲ (9)** to change field.

Show F10 M ??????.???
?

Where M is the minimum amount of goods we want, press the **+ key (14)** to modify and re-press the same key to confirm.

Press the key **00 S ▲ (9)** to change field.

Display a screen with information about the PLU where you can select the format with **keys + (14)** or - **(13)**.

Select the desired format and press the **F4 key** to validate.

Change the field on the previous screen to select the ingredients (if has added a list of ingredients from the computer). We can see the ingredients with **keys + (14)** or - **(13)**.

To add ingredients, press the **F3 key** to open a menu where you can move using the **+ (14) key** or - **(13) key**.

Select the desired ingredient and press the **F4 key** to validate.

Press the key **00 S ▲ (9)** to change field.

Show F10 D ????
?

Where D is the expiration date of the PLU: values 1-9999 (keypad).

Press the key **00 S ▲ (9)** to change field.

Show F10 1
TEXTO UNO

Text associated with the PLU 1 (24 characters), keyboard text (*)

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10)** or ***/ (11)**

Press the key **00 S ▲ (9)** to change field.

Show F10 2
 TEXTO DOS

Text associated with the PLU 2 (24 characters), keyboard text (*)

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the **key * (10) or */ (11)**

NOTE 1: If the scale has a SCANNER (option) and read a bar code being anywhere of the F10 function, the scale will assign this barcode to the PLU and will give an audible indication. If you want to see and/or edit manually, press the **key shift (6)** and **key 00 (9)**, being in any point in the F10 function, then the text disappears and the value of PLU barcode appears. If you press again the **key shift (6)** and **key 00 (9)**, the menu come back to the previous state.

The type of bar code can be type 0 normal (not weight), type 1 normal and codes with the last five digits representing the weight (must start with 2) and normal type 2 and codes with the last five digits representing the amount (must start with 2).

NOTE 2: To enter manually a barcode EAN8, insert first five zeros, then the bar code.

NOTE 3: On the PLUS edition, to see the status of a PLU, station oneself in the field number of the PLU and press the **key * / (11)**.

NOTE 4: If you wish to cancel a text, write the character " " code (032) in the first position.

9.13. F11 MESSAGE ADVERTISING

Show F11 N ? Press the key **00 S ▲ (9)** to change field
 ? Type the new value with the numerical keys
 M PUBLICITARIO

Where N is the net machine number: values 0 to 9 (numerical keys).

Text field (63 characters) keyboard text (*)

(*) Characters from 032 till 169 and 213 (€) (see ASCII table in page 21). To access characters not in the keyboard press the key *** (10) or */ (11)**

9.14. F12 DIRECT PLUS KEYS TO PLUS ASIGNATION

Show F12 T ? N ? Press the key **00 S ▲ (9)** to change field
 TECLAS PLUS Type the new value with the numerical keys
 Where T is the direct key number Direct PLU key and **SHIFT** + direct PLU key
 N is the PLU number assigned to the key Numerical keys or keys + **▲ (14)** and - **▼ (13)**

9.15. F13 PERCENTAGE OF VAT

Show F13 N ? V ? Press the key **00 S ▲ (9)** to change field
 PORCENT IVA Type the new value with the numerical keys
 Where N is the number of VAT values from 1 to 5 (keypad)
 Where V is the value of the VAT rate values from 0 to 99.99% (keypad)

9.16. F14 TYPE OF VAT ASSIGNED TO THE FAMILIES

Show F14 F ? I ? Press the key **00 S ▲ (9)** to change field
 IVA FAMILIA Type the new value with the numerical keys
 Where F is the number of family values 1-30 (keypad)
 Where I is the VAT rate values from 1 to 5 (keypad)

9.17. F15 BAR CODE PARAMETERS PROGRAMMATION

Show F15
 25MVCCIIIII

25MVCCIIIII is the default bar code, enter the new values with the keyboard text.

MEANINGS:

- Digit (0 à 9) Literal presentation of digit.
- Character V Seller number.
- Character C Number of ticket of the seller.
- Character L PLU number (single operation).
- Character F Family number (single operation).
- Character O Operation number of the seller.
- Character W Weight (single operation).
- Character P Price (single operation).
- Character I Net Amount.
- Character M Number of Scale.
- Character T Tare (single operation).
- Character G Code associated with the PLU (single operation).

There is no minimum or maximum limit of repetition or size of the fields. If they exceed, are supplemented with zeros, and by default, presents the least significant digits. In case of typing any character without meaning in the bar code is printed a 0.

Example: The Code (250VCCIII) of a scale with the seller number 4, in the client number 39, which has bought valued at € 25.60. Generates the code 250403902560X (X is a digit of control and non-programmable to calculate the processor)

NOTE: The net negative amounts do not generate bar code

9.18. F16 WEIGHT PARAMETERS PROGRAMMATION

This function can be performed by AUTHORIZED PERSONNAL ONLY AND IT'S ACTIVATE UNDER ONE ELECTRONIC KEY.

9.19. F17 NET MACHINE NUMBER PROGRAMMATION

Show F17 N ? Values 0-9 (keypad)
 NUMERO RED Type the new value with the numerical keys

The master equipment must be the number 0. There should be no two equipments with the same number in the network. If there is only one in network must be always zero.

9.20. F18 PROGRAMMATION DE TARES

Show F18 N ? T ? Values 1-10 (keypad)
 TARAS PROG Press the key **00 S ▲ (9)** to change field

The new tare value can be introduced by two ways:

- Enter the new value, using the numeric keypad, that is less than the maximum range of machine (for example, to introduce **1.3 kg** press the **1 key**, the key **00'** and the key **3**).
- Weighing one container for perform the Tara. Press the **key T (5)** to enter in weight, put the weight on the plate and press the **key T (5)** again.

9.21. F19 NETWORK SETTING FROM MASTER SCALE

Show F19 PR RED Press the **key */ (11)**
 PROG RED

Will be programmed every scale on the network, making three data downloads from the MASTER scale: RAM memory, DataFlash memory and FISCAL memory, if it is enabled.

9.22. F20 SETTING THE IP ADDRESS OF THE SCALE

If the scale has the option of Ethernet, the scale functions as a web server, so you can access it from the browser on your PC and edit and read the data from the scale (PLU, grand totals, etc.). You will need to define the parameters of the scale to be accessible on your local network (LAN).

You should know the following:

IP address of the router (IP GATE): Example: 192.168.1.1
 Subnet mask (IP MASK): Normally: 255.255.255.0
 A free IP address for the scale (IP ADDRESS): Example: 192.168.1.10

Show IP ADDR 192,168, 1, 10 Press the key **00 S ▲ (9)** to change field
 Type the new value with the numerical keys
 Show IP GATE 192,168, 1, 1 Press the key **00 S ▲ (9)** to change field
 Type the new value with the numerical keys
 Show IP MASK 255,255, 0 Press the key **00 S ▲ (9)** to change field
 Type the new value with the numerical keys

You must press the **X key [F ▲] (12)** to save the changes in memory. New address will be considered after a power cycle of the scale.

NOTE: Some antivirus or versions of them, do not allow the connection for testing. We recommend that you disable antivirus and in some cases, the Windows firewall.

Open your browser, type in the search bar the IP address of the scale and you can see the menu to inquiries and set the scale.

There is a separate manual to explain the operation of the Web page and an Excel spreadsheet to schedule PLUS a more convenient way.

9.23. F21 SETTING THE PORT OF THE SCALE

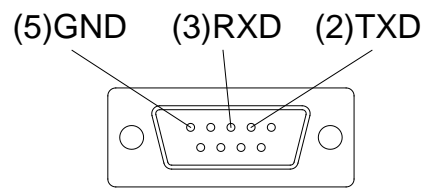
Show F21 P 80 Enter the port using the numeric keypad
 PUERTO IP Use port 80 for direct connection and port 8080 for other

9.24. TABLE OF CHARACTERS

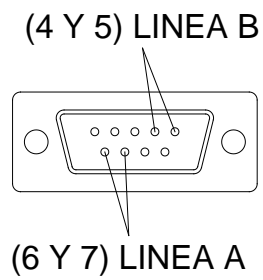
032	(SPACE)	061	=	090	Z	119	w	148	ö
033	!	062	>	091	[	120	x	149	ò
034	"	063	?	092	\	121	y	150	û
035	#	064	@	093	]	122	z	151	ù
036	\$	065	A	094	^	123	{	152	ÿ
037	%	066	B	095	_	124	|	153	Ö
038	&	067	C	096	`	125	}	154	Ü
039	'	068	D	097	a	126	~	155	ø
040	(	069	E	098	b	127	(SPACE)	156	£
041	)	070	F	099	c	128	Ç	157	∅
042	*	071	G	100	d	129	ü	158	×
043	+	072	H	101	e	130	é	159	f
044	,	073	I	102	f	131	â	160	á
045	-	074	J	103	g	132	ä	161	í
046	.	075	K	104	h	133	à	162	ó
047	/	076	L	105	i	134	å	163	ú
048	0	077	M	106	j	135	ç	164	ñ
049	1	078	N	107	k	136	ê	165	Ñ
050	2	079	O	108	l	137	ë	166	ª
051	3	080	P	109	m	138	è	167	°
052	4	081	Q	110	n	139	ï	168	¿
053	5	082	R	111	o	140	î	169	i
054	6	083	S	112	p	141	ì	213	€
055	7	084	T	113	q	142	Ä		
056	8	085	U	114	r	143	Å		
057	9	086	V	115	s	144	É		
058	:	087	W	116	t	145	æ		
059	;	088	X	117	u	146	Æ		
060	<	089	Y	118	v	147	ô		

10. EQUIPMENT CONNECTIONS

10.1. RS232 CONNECTOR (OPTIONAL)



10.2. INTERCONNECTION CONNECTOR (OPTIONAL)



11. MAINTENANCE

10.3. CLEANING

- Before cleaning the equipment disconnect from the power.
- The equipment has plastics materials. To perform the cleaning, never use gasoline, thinners or other chemicals products, since it could change the colour and damage the surface of these materials.
- Avoid using insecticides spray, some contain chemicals that could distort the covers.
- Clean the body of the equipment with a soft, clean cloth for cleaning difficult stains, use a wet cloth in a solution of mild soap and water
- For cleaning use a cloth soaked blankets (not wet) in a mild solution of soap and water.

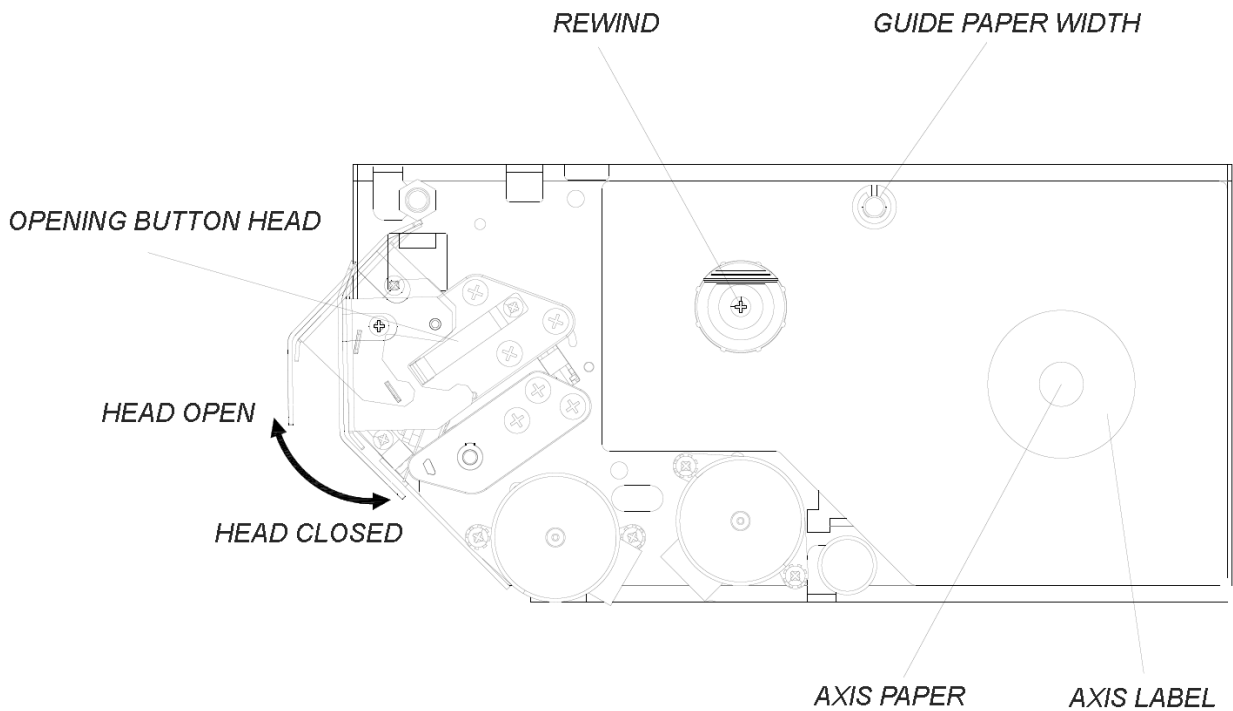
10.4. PAPER REFIL

TO CHANGE MODE TICKETS TO LABEL MODE AND VICE VERSA Press "↓" AND "↺" (IF SYMBOL 11 IS LIT THE LABELING MODE IS ON)

The printer can use continuous paper or labels.

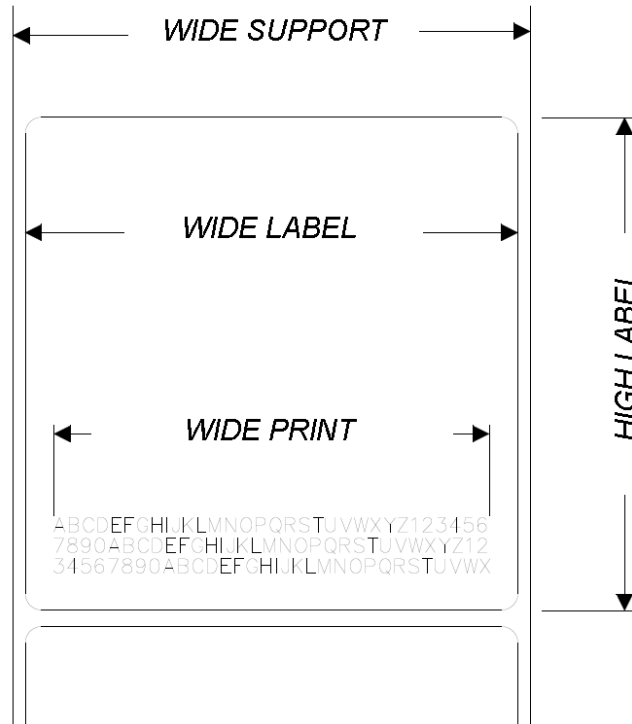
To change the paper in the suspended scale, simply pull the handle to open the door and have access to the printer, and in the desk scales pulled sideways handle to leave the block printer and access.

Once we have access to the printer to release the head to change the paper as shown in the following diagram:

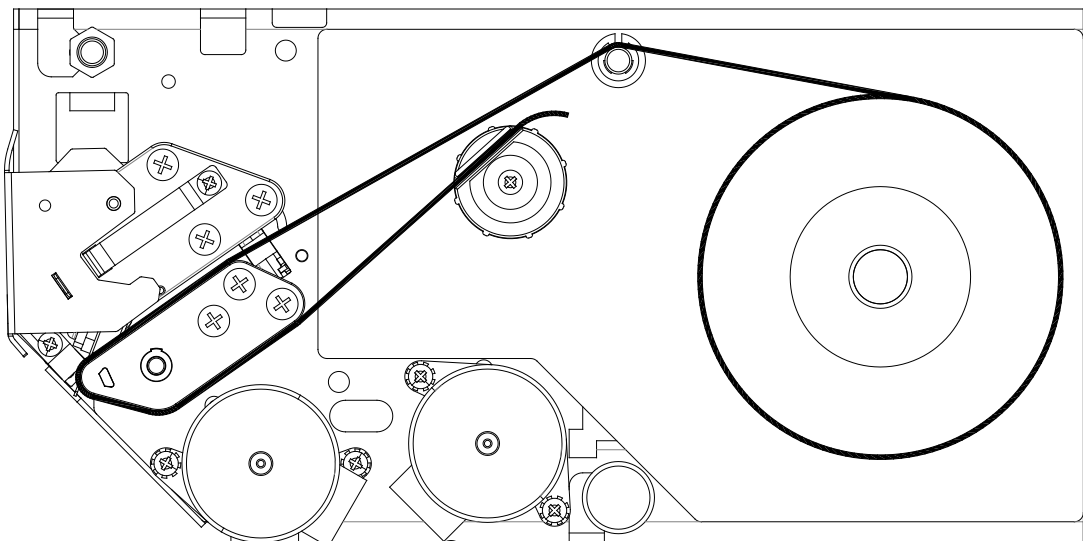


10.4.1. CHARGING ROLLER LABEL

ROLL LABELS USING A LARGE SUPPORT MAXIMUM 63 MM AND DIAMETER MAXIMUM OF 80 MM.



1. OPEN THE DOOR OF THE LABEL MACHINE BY PULLING THE DOOR HANDLE.
2. RELEASE THE PRINT HEAD PRESSING THE HANDLE OF OPENING OF THE PRINT HEAD.
3. PLACE THE AXIS OF THE ROLL OF LABELS
4. CLEAR THE FIRST LABELS OF THE NEW ROLL OF LABELS AND TO PLACE IT IN THE AXIS OF THE ROLL OF LABELS
5. PASS THE PAPER AS INDICATES ON THE FIGURE:



6. ADJUST THE WIDE GUIDE OF PAPER SO THAT THE LABEL REMAINS WITHOUT WIDTH AND WITHOUT WRINKLING THE SUPPORT

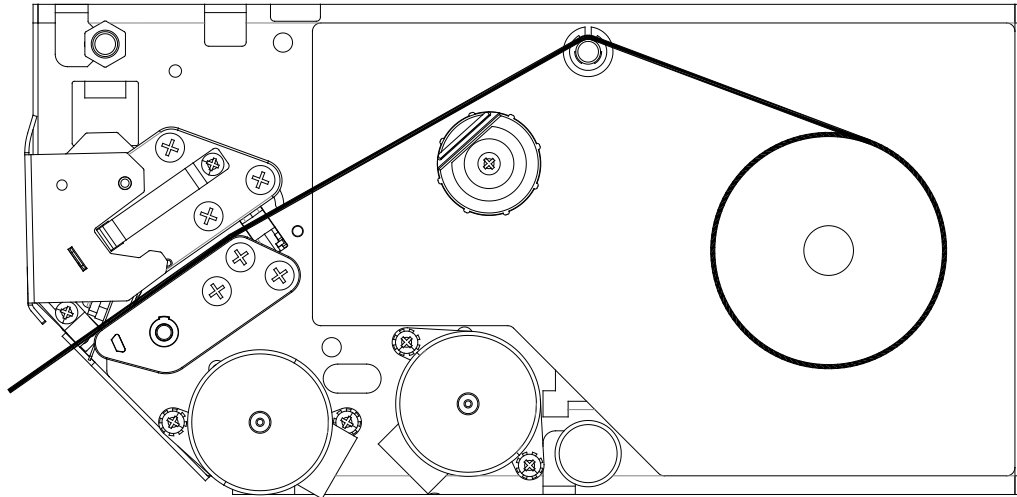
NOTE: START PRINTING IS LOSING A LABEL UNTIL THE MACHINE DETECTED THE BEGINNING OF THE SAME.

The printer can use a continuous paper to test while we're designing labels by choosing the code 000600 (000610 code to disable).

10.4.2. LOAD CONTINUOUS PAPER

USE THERMAL PAPER WITH WIDE OF 58MM AND MAXIMUM DIAMETER OF 60MM

1. OPEN THE DOOR OF THE LABEL MACHINE BY PULLING THE DOOR HANDLE.
2. RELEASE THE PRINT HEAD PRESSING THE HANDLE OF OPENING OF THE PRINT HEAD.
3. CLEAR THE AXIS OF THE ROLL OF LABELS IF THIS EXIST
4. PASS THE PAPER AS IT'S INDICATED IN THE FIGURE:



5. ADJUST THE WIDE GUIDE OF PAPER SO THAT THE PAPER REMAINS WITHOUT WIDTH AND WITHOUT WRINKLING THE SUPPORT

12. WHAT TO DO IN CASE OF FAILURE

BEFORE YOU CALL FOR TECHNICAL ASSISTANCE, MAKE SURE:

- 1. THE EQUIPMENT NOT LIGHT**
 - If your equipment does not turn on, verify the power.
 - Make sure the power cord is connected to the plug from the outlet.
 - Make sure the power switch is in on position.
 - Check fuse.

- 2. THE EQUIPMENT SHOW [-0-]**
 - Check for any goods on the platform.
 - Check for air flow.

- 3. THE EQUIPMENT SHOW [ERR DATOS DS]**
 - Check the equipment recording.

- 4. THE EQUIPMENT HAS ANY OTHER KIND OF ERROR (SEE SECTION 8.9)**
 - If it is an error handling is solved by pressing “CE” or performing the indicated action..
 - Any other type of error check with technical service.

TO CONTACT THE NEAREST SERVICE, CALL YOUR DEALER OR TELEPHONE +34 96 150 09 11.

DEALER



