

INSTRUCTIONS

WEIGHT INDICATOR MOD. LA688 "PRICE / AMOUNT"



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The device is covered by warranty and **MUST NOT BE OPENED BY THE USER** for any reason. Every attempt of reparation or modification cancels all the conditions of warranty.

DO not pour liquids on the indicator.

Do not use solvents to clean the indicator.

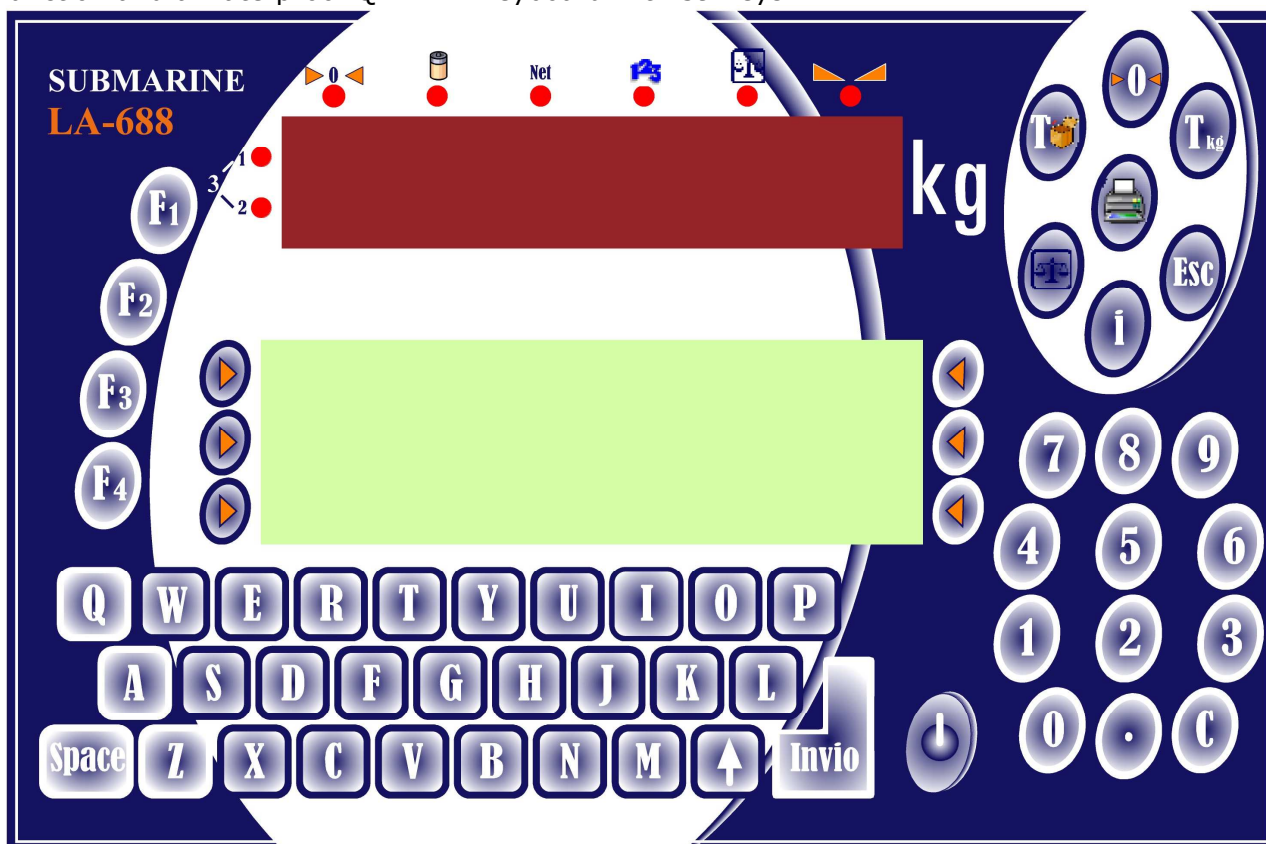
Do not install in a place in ranger of explosion.

MAIN TECHNICAL FEAUTERS

POWER SOURCE	230Vac +/-10% , 50-60Hz with external power source 7,5Vdc/700mA
MAXIMUM ABSORPTION CONNECTABLE LOAD CELLS	600 mA (with 8 load cells and optional cards) Up to 8 350 ohm-cells
OPERATION TEMPERATURE	From -10 to +40 °C.
DISPLAY DIVISIONS	Up to 60000 visualized divisions.
DIVISIONS FOR LEEGAL USE	Up to 10000e or 2 or 3X6000 .
DISPLAY	Red LED with 6 numbers, h 20 mm Graphic points-mould LCD with back illumination
SEGNALATIONS	8 spies LED state indicators
KEYBOARD	Waterproof with membrane with tactile and acoustic effect.
TARE FUNCTION	Subtractive on all the capacity.
AUTOSWITCHING OFF FUNCTION	After x minute of no use, disconnectable.
POWER SOURCE FOR LOAD CELLS	5Vdc \pm 5%, 120mA (max 8 350 Ohm - cells).
LOAD CELLS CONNECTION	6 wires with Remote Sense.
ANALOGICAL PLATFORM	n° 2 analogical platforms organised on different channels
CONTAINER	AISI 304 Stainless steel metallic console suitable for assembly on shelf or column.
SERIAL OUTPUTS	2 input/output RS232 ports that can be configured for connection to PC, printers o weight repeater 1 RS485 port
OPTIONS	Additional card with two inputs and 4 relè outputs Additional card with analogical output v or mA Additional card with fiscal memory to register the weights (150.000 memorisable weights) Form for Ethernet net connection Form for USB Pen Drive

1.KEYBOARD AND LED INDICATORS

The front panel is made up of a red led-display with numbers of 20 mm of height, an alphanumeric graphic LCD display with points-mould and backlight, 8 LCD indicators of function and a waterproof QWERTY keyboard with 59 keys.



1.1 – Led indicators



If on, it indicates that the weight is close to zero, included in the range $-1/4 \div +1/4$ of the division.



If on, it indicates that the weight is stable



If on, it indicates that the device is powered by an internal battery. If flashing, it indicates that the battery is out of power and it, then, must be connected to the electricity grid, through the specific power supply, for the recharge.



If on, it indicates that the value visualized on the display is a Net Weight; it means that in memory there is a tare.



If the Led n° 1 is on, the scale is in the first weighing.(*)
 If the Led n° 2 is on, the scale is in the second weighing field.(*)
 If both the Led are on, the scale is in the third weighing field.(*)
 (*): Multifield function activated




If on, it indicates that the scale n°2 is working; if flashing with frequency 250ms ON/OFF, the remote scale 1 and if flashing with frequency 1000ms ON/OFF, remote

scale 2

2.FONCTIONNEMENT OF THE SCALE

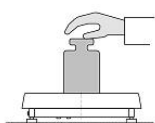
2.1 – RESET THE WEIGHT OF THE SCALE


If, for any reason, unloading the plate of the scale, the weight doesn't completely go back to zero, pressing the key  the weight resets

2.1 – SETTING A TARE

2.1.1- Autoweighed Tare

The function of Autoweighed Tare allows annulling the weight of an empty container situated on the plate of the scale.



 Place the container which is meant to reset the weight of on the plate of the scale

 Press the key TARE to confirm the operation.

The signal led NET switches on, thus indicating that from now on each value visualized on the display has to be considered Net Weight.


The operation of autoweighed tare can be done more than one time and the maximum resettable value corresponds to the Rated Capacity .

Unloading the scale, if the tare is blocked, the negative value is visualized; if, instead, the tare is free, it is annulled and the display visualizes the zero scale.

2.1.2 – Predetermined Tare

The function of Predetermined Tare allows, instead, annulling a known value of Tare and it is, therefore, possible, starting from a full container placed on the scale, to extract the Tare and visualize the Net Weight contained in it.



1. Press the numerical value of Tare
2. Press the key  next to the icon TARE
Or press the key numerical TARE of the functions numeric keypad.



The final value is automatically rounded off to the unity of the currently active division.

In case of value superior than the Rated Capacity, the value is not accepted.

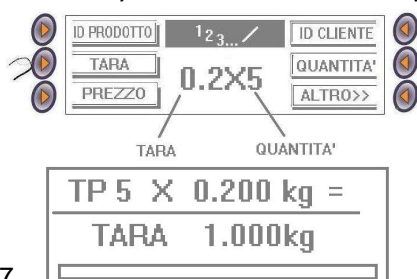
The NET signal led switches on, indicating that from now on each value visualized on the display has to be considered Net Weight.


If another predetermined tare is set, this one replaces the existent one.

2.1.3 – Multiplication of Tares

This function allows multiplying a value of tare.

This function is useful when, after placing a number of items with the same container, it is necessary to deduct the correspondent tares.



1. Press the value of the tare per the multiplicative factor (number of containers)
2. Press the key  next to the icon TARE

3. The display visualizes the calculation that has been done and detracts the tare display


2.1.4 – Tare Block

It is possible to make the value of tar currently active remain active even if the scale is out of power. (Default active option).

The setting of this function can be modified in the user menu under the voice BLOCKED TARE; or it is possible to match this function with one of the function keys F1...F4

Switching the device off, the modality currently active is kept anyway.

2.1.5 – Deleting the tare value

To annul the memorized tare press the key  for 3 sec.

On the display the Gross is visualized again and the led for the Net Weight signal switches off, in order to confirm that the memorized tare has been deleted.

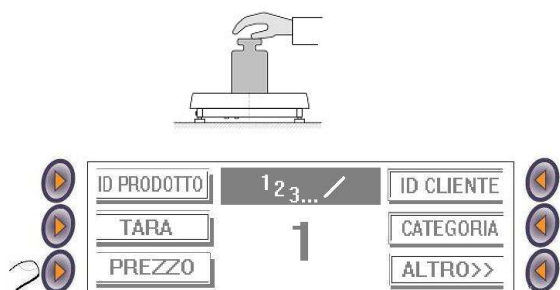
2.1.6 – Detraction of Net Weight


Thus function allows detracting a determined percentage of weight from the effective net weight. Insert the percentage through keyboard and confirm pressing the key %DETRACTION

2.2 – FREE PRICE – WEIGHT

Through your weight indicator you are forthwith able to weigh and sell; in fact, no programming is needed.

In the factory configuration the scale can totalize more weights.



1. Load the article up on the scale.
2. Insert the unitary price (price/kg) and confirm it through the  next to the icon PRICE that appears on the LCD display.
3. Memorize the operation through the key ENTER.
4. Repeat the steps 1,2 and 3 for the other articles.

5. Conclude the transaction with the key PRINT.

N.B. IN CASE OF ENABLED OPERATORS FONCTIONNEMENT, THE WEIGHT HAS TO BE MEMORIZED KEEPING THE KEY THAT CORRESPONDS TO THE DESIRED OPERATOR PRESSED (F1;F2,F3,F4).

IN CASE OF FONCTIONNEMENT WITH MULTIPLE RECEIPT KEEP THE OPERATOR KEY PRESSED TO CLOSE THE OPEN RECEIPT.

NOTES: the prices inserted without decimal point are considered complete, thus, keying 10, the price considered is 10 Euros; insert the price inclusive of decimal point for the decimals.

2.3 – OPERATE WITH PLU

The device has an items storage in which it is possible to register the data of the article and recall, then, them easily and quickly.

In the standard configuration the plu includes the following areas:

- ITEM RECORD: it permits to COPY, CUT, PASTE and DELETE the complete programming of the selected item in order to fasten the operations of programming or modify
- CODE: 12 alphanumerical characters
- NAME: 36 alphanumerical characters
- ASSOCIATED TARE: 7 numbers
- PRICE: price per Kg of the item (6 numbers)
- DEADLINE: due date of the item expressed as numbers of days of conservation data
- TYPE OF ITEM: PER WEIGHT or PER PIECE item
- NOMINAL WEIGHT: 7 numbers
- EAN CODE: 6 numbers for barcode printing
- ASSOCIATED PRINTING: printing format associated to the article
- CATEGORY: category associated to the article (selection from the storage)
- CLIENT: client associated to the article (selection from the storage)
- ADDITIONAL DESCRIPTIONS: ingredients 720 characters + 960 with external memory
- NUMBER ON TRANSACTIONS
- NET TOTAL
- TOTAL AMOUNT

2.3.1 – New Article Insertion

The programming of a new article is done in the Setup menu in the section Items Storage.



1. To access the setup menu, press the key .

2. Select through the key the option 4 ITEMS STORAGE

3. Access through the key ENTER or the key SEL

4. Place on the first free record and press ENTER.

4. Press and ENTER, insert the item code and press ENTER
5. Press and ENTER, insert the name of the plu and press ENTER
6. Press and ENTER, insert a possible associated tare and press ENTER
7. Press and ENTER, insert a possible price and press ENTER
8. Press and ENTER, insert the days of deadline and press ENTER
9. Press and ENTER, select the type of plu (PER PIECE or PER ITEM), press ENTER
10. Press and ENTER, insert a possible nominal weight and press ENTER
11. Press and ENTER, insert the EAN code and press ENTER
12. Press and ENTER, select the associated printing format and press ENTER
13. Press and ENTER, select the associated category and press ENTER
14. Press and ENTER, select the client and press ENTER
15. Press ESC to output from the programming of the selected plu

Select a new item and repeat the steps from 3 to 15
or press ESC to output from the items storage
press ESC again to output from the Setup menu and return to the weighing modality.

NOTES: the programming of an article does not necessarily implies the insertion of all the fields of the storage; it is possible to insert just the field you are interested in, as, for example, the name of the item, and, then, output pressing the key ESC.

In the item menu there is the voice ADDITIONAL DESCRIPTIONS for the programming of ingredients associated to the article;

It is possible to do this programming either through device or PC.

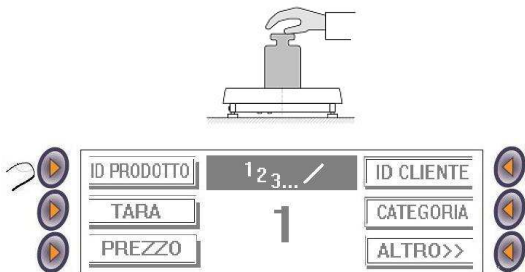
This programming is both possible manually or connecting the indicator to the PC and using the management ODECA PC ARC that can be downloaded from the website www.odecasrl.com

2.3.2 – Recall a Plu

RECALL THROUGH ID ITEM

A number of identification, progressive according to the order of programming, is associated to each article of the storage.

It is possible to use this number to recall a plu in memory;



1. place the goods on the plate of the scale
2. insert through numerical keyboard the number of the plu that has to be recalled
3. press the key ► next to the ID ITEM icon that appears on the LCD display
4. memorize the weight through the key ENTER
5. close the transaction through the key PRINT.

RECALL THROUGH CODE/NAME OF THE ITEM:

It is possible to recall an article also pressing its associated code or, if not remember, it is possible to simply press the name or even a part of it, avoiding, in that way, the necessity of inevitably having a list of items next to the scale.




1. place the goods on the plate of the scale
2. insert the code or the number of the item through numerical keyboard
3. press the key ► next to the ITEM icon that appears on the LCD display; the viewer makes a survey using the inserted data;



if the data belong to a single article, this article is automatically selected,



if, instead, the data that i have inserted compose more than one item, the viewer suggests a list of article that it is possible to select through the keys  and ENTER

4. memorize the weight through the key ENTER
5. close the transaction through the key PRINT.

2.3.3 – Sale with PLU per piece

The sale per piece allows summing to the transactions one or more items, whose sale does not require to weigh it.

1. recall an item through the modalities described at the paragraph 2.2.2
2. press the key ENTER to confirm its sale

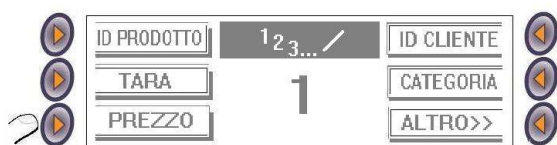


3. insert the quantity, then, the number of pieces that has to be sold and confirm through ENTER
4. repeat the steps 1,2 and 3 to memorize other goods
5. press the key PRINT to close the sequence of transactions

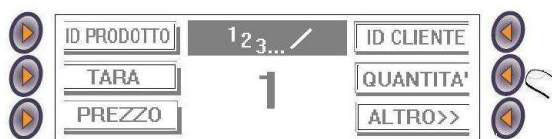
2.3.4 – Modification of the PLU price

To modify the price of a memorized plu, recall the article through the modalities describe at the previous paragraphs and set a new price as shown at the paragraph 2.1 is enough.

2.4 – SALE PER PIECE WITH FREE PRICE



1. insert the unitary price (price/kg) and confirm through the key ► next to the PRICE icon that appears on the LCD display.



2. Set the quantity, then, the number of pieces that have to be sold and confirm through the ► next to the QUANTITY icon that appears on the LCD display.

3. Memorize the operation through the key ENTER.

4. Repeat the steps 1,2 and 3 for other articles.

5. Finish the transaction with the key PRINT.

2.5 – WEIGHT ASSOCIATED TO A CLIENT

The device has a clients' storage where it is possible to register the names of the clients that have to be associated to a weight adding it to the total related to the selected client .



In the standard configuration a client includes the following fields:





- ITEM RECORD: it permits to COPY, CUT, PASTE and DELETE the all programming of the selected client in order to fasten the operations of programming or modification
- CODE: 12 alphanumeric characters
- NAME: 36 alphanumeric characters
- ADDRESS: 36 alphanumeric characters
- CITY: 24 alphanumeric characters
- VAT/FISC.CODE: 16 alphanumeric characters
- NUMBER OF TRANSACTIONS
- NET TOTAL
- TOTAL AMOUNT

2.5.1 – New Client's insertion

The programming of a client is done through the Setup menu in the Clients' Storage.



1. To access the Setup menu press the key .
2. Select through the key  the option 5 CLIENTS' STORAGE
Access pressing the key ENTER or the key SEL
3. Place on the first free record and press ENTER.

4. Press  and ENTER, insert the client's code and press ENTER
5. Press  and ENTER, insert the name or business name and press ENTER
6. Press  and ENTER, insert the address and press ENTER
7. Press  and ENTER, insert the city and press ENTER
8. Press ESC to output from the programming of the selected client

Select a new client and repeat the steps from 3 to 8

Or press ESC to output from the items storage

press ESC again to output from the Setup menu and go back to the weighing modality

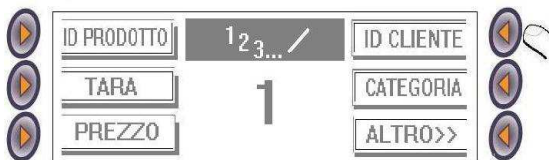
2.5.2 – Recall a Client


As well as for the article, it is possible to recall a client from the memory in different ways;

RECALL THROUGH ID CLIENT

A number of identification progressive according to the programming order is associated to each Client in the storage.

It is possible to use this number to recall the memorized client;




1. insert through numerical keyboard the number of the client that has to be recalled
2. press the key  next to the ID CLIENTE icon that appears on the LCD display

3. from now on all the weights are totalized on the selected client and, if a printer is connected, it is possible to print the data according to the programming done.

RECALL THROUGH CODE/CLIENT'S NAME:


It is possible to recall a client also keying its associated code or, if not remembered, it is possible to simply key the name or even a part of it, avoiding, in this way, the necessity to inevitably have a list next to the scale.



1. insert the code or the client's name
2. press the key  next to the CLIENTE icon that appears on the LCD display; the viewer makes a survey using the inserted data;

if the data belong to a single voice, the client is automatically selected,



if, instead, the data that I have inserted compose more items, the viewer suggests a list of articles that can be selected using the keys  and ENTER

3. from now on all the weights are totalized on the selected client and, if a printer has been connected, it is possible to print the data according to the programming that has been done.

2.6 – MODALITY OF PRINTING

2.6.1 – Single Receipt Printing



This modality can be activated in the user menu disabling the voice MULTIPLE PRINTING; in that way, pressing the key PRINT, a receipt is emitted each time a weight is memorized.

2.6.2 – Label Printing

It is possible to connect this device to each kind of labeller, as the printing formats can completely be programme; the selection of this modality of operation is done choosing the type of GENERICAL printer in the programming menu of the serial peripheral devices. In this way, every time a weight is memorized, a label is emitted .

2.6.3 – Partial Total Printing



Pressing the arrow key next to the voice PARTIAL on the LCD display, a totalization screen of the weights, that have been done starting from the reset of this total, opens.



Pressing the key PRINT, if a printer is connected, the partial total is printed and resets.

Pressing the key next to the X the partial total resets.

Pressing the key ESC it is possible to output from the menu without doing any other operation.

2.6.4 – General Total Printing



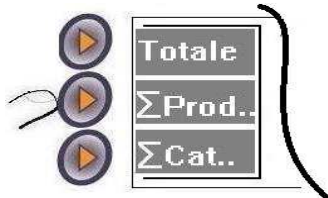
The general total can be interpreted as the sum of a lot of partial totals that has been zeroed during a working day; the general total can not be zeroed if a partial total is open; in thus case the device automatically resets also the partial total. Pressing the arrow key next to the voice TOTAL on the LCD display the screen of totalization of the weights, done starting from the

previous resetting of this total, opens.



Pressing the key Print, if a printer is connected the general total is printed; with the following require of reset, pressing the key next to the X the general total resets. Pressing the key ESC is possible to output from the menu without doing any operation.

2.6.5 – Total Item Printing



Pressing the arrow key next to the voice ITEM SUMMATION on the LCD display the totalization screen of the weights, done starting from the previous reset of this total, opens.



Pressing the key Print, if a printer is connected, the total of the selected item is printed and resets. Pressing the key next to the X the Item Total resets. Pressing the key ESC it is possible to output from the menu without doing any operation.

2.6.6 – Client's Total Printing



Pressing the arrow key next to the voice CLIENT'S SUMMATION on the LCD display the screen of totalization of the weights done starting from the reset of this total, opens



Pressing the key Print, if a printer is connected, the total of the selected client is printed and zeroed. Pressing the key next to the X the client's total resets. Pressing the key ESC it is possible to output from the menu without doing any operation.

2.6.6 – Category Total Printing

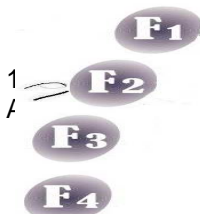


Pressing the arrow key next to the voice CATEGORY SUMMATION on the LCD display, the screen of totalization of the weights, done starting from the previous reset of this total, opens.




Pressing the key Print, if a printer is connected, the total of the selected category is printed and zeroed. Pressing the key next to the X the category total resets. Pressing the key ESC it is possible to output from the menu without doing any operation.

2.7 – OPERATORS



The LA688 device offers the possibility to work with more than one operators at the same time, OPERATORS modality of operation selected (Par 4.4.1), in this case the keys FUNCTION F1,F2,F3,F4, become respective operator's keys.
The weights has to be memorized on the desired operator's key, whereas it is possible to obtain the printing of the total with a prolonged pressure of the operator's key (3 sec)


2.8 – SCALE SELECTION

The LA688 indicator permits, if a specific Setup parameter has been enabled, to manage at the same time two weighing platforms, each one with specific features.
The selection within the two platforms is done through the key .



The state of the signal Led indicates the currently used platform:

- Led off : Used Platform n° 1
- Led on : Used Platform n° 2


Through serial port (COM2 o COM3) it is possible to connect a remote scale. Through the pressure of the key  it is possible to select the remote scale:

- Flashing Led 250ms : Used remote Platform n° 1
- Flashing Led 1000ms : Used remote Platform n° 2

3. CREATION OF STORAGES

The LA688 indicator allows programming three different types of storage:

**ITEMS STORAGE
CLIENTS' STORAGE
CATEGORIES STORAGE**

It is possible to access the to the storages through the pressure of the key  .
The screen that opens is the following:



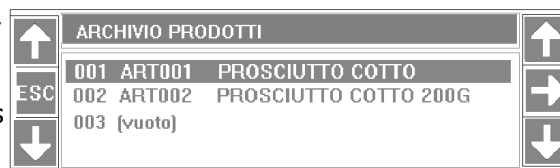
3.1 – ITEMS STORAGE

Confirming the input in this section of the menu a window, with the list of the memorized items opens,

select an article that has already been programmed in order to modify its parameters or select an empty record for a new insertion.

The qualification for the programming is done pressing the key after highlighting the code that is meant to be modified; the programming screen, as in picture, opens.

The programming menu of the single items is made up of different voices:



ITEM RECORD : it permits to COPY, CUT, PASTE and DELETE the all programming of the selected item in order to fasten the operations of programming or modification

CODE: 12 alphanumerical characters
 NAME: 36 alphanumerical characters
 ASSOCIATED TARE :7 numbers
 PRICE: price of the item per Kg (6 numbers)
 DEADLINE: due date of the item, expressed as number of days of conservation
 TYPE OF ITEM: PER WEIGHT or PER PIECE item
 NOMINAL WEIGHT: 7 numbers
 EAN CODE: 6 numbers for barcode printing
 ASSOCIATED PRINTING: printing format associated to the article
 CATEGORY: category associated to the article (selection from storage)
 CLIENT: client associated to the article (selection from storage)
 ADDITIONAL DESCRIPTIONS: ingredients 720 characters + 960 (mem.ex)
 NUMBER OF TRANSACTIONS
 NET TOTAL
 TOTAL AMOUNT

Each one of these voices is accessible through the key  next to the writing MOD.

3.2 – CLIENTS' STORAGE

Confirming the input in this section of the menu a window, with the list of the memorized items, is visualized



The programming menu of the single clients is made up of different voices:

CLIENT RECORD: it permits to COPY, CUT, PASTE and DELETE a client's record to fasten the operations of programming and modification
 CLIENT'S CODE: 12 alphanumerical characters
 NAME: 36 alphanumerical characters
 ADDRESS: 36 alphanumerical characters
 CITY: 24 alphanumerical characters
 VAT / FISCAL CODE: 16 alphanumerical characters
 NUMBER OF TRANSACTIONS
 NET TOTAL
 TOTAL AMOUNT

Each one of these voices is accessible through the key  next to the writing MOD.

3.3 – CATEGORIES STORAGE

Confirming the input in this section of the menu, a window, with the list of the memorized categories, is visualized.

A possible programmed category has to be associated to an article; it is, so, possible to obtain a totalization of the weights per categories, too.



In fact, in the menu there are the following voices:

NUMBER OF TRANSACTIONS
 NET TOTAL
 TOTAL AMOUNT

4. PROGRAMMING MENU

With the LA688 device it is possible to access to the general menu pressing the key



Pressing the key next to the icon with the directional arrows it is possible to browse within the different sections of the settings menu; pressing the key SEL it is possible to select the highlighted voice and enable the input, whereas pressing the key ESC it is possible to output from the main screen of the settings menu.

4.1 – SETTINGS MENU SCHEME

SETTINGS MENU

1 USER MENU

- 1 DATA ADJUSTMENT
- 2 TIME ADJUSTMENT
- 3 ENERGY SAVING
- 4 PRINTING MODALITY
- 5 AUTOMATIC PARTIAL
- 6 HEADING LINES
- 7 F1 F2 F3 F4 KEYS

- 8 SETTINGS FREE TEXTS
- 9 BLOCKED TARE
- 10 MANAGEMENT OF DATA STORAGE
- 11 PRIVACY
- 12 FISCAL MEMORY
- 13 USB FILE PARAMETERS

- 14 EMULATOR MODE
- 15 OPERATORS' LIST
(just in operators' modality)

3 SYSTEM MENU

- 1 OPERATION MODE
- 2 SERIAL PERIPHERAL DEVICES
- 3 TOTALIZATION MENU
- 4 HARDWARE OPTIONS
- 5 DISPLAY MODE
- 6 SOFT KEYS PAGE
- 7 LANGUAGE
- 8 WEIGHING SYSTEM

2 SCALE MENU

- 1 OMOLOGATED DEVICE
- 2 UNITY OF MEASURE
- 3 MAXIMUM CAPACITY
 - 4 N° SCALE FIELDS
- 5 DIVISION VALUE
- 6 ZERO ADJUSTMENT
 - 7 RATED CAPACITY
ADJUSTMENT
 - 8 CALIBRATION ZONE
 - 9 USE ZONE
 - 10 WEIGHT FILTER
 - 11 WEIGHT STABILITY
 - 12 ZERO CHASER
 - 13 AUTOZERO AT SWITCHING
ON
 - 14 INPUT SIGNAL
 - 15 LAST 5 ACCESSES

4 ITEMS STORAGE

5 CLIENTS' STORAGE

6 CATEGORIES STORAGE

- 9 DOUBLE PLATFORM
- 10 HIDE LOGO
- 11 MEMORIES MANAGEMENT
- 4.2 – USER MENU**

4.2.1 – Date adjustment

It adjusts the setting of the current date

4.2.2 – Time adjustment

It adjusts the setting of the clock

4.2.3 – Energy Saving

It adjusts the settings of energy saving

1 AUTOSWITCHING OFF if active, it causes the switching off of the instrument if not used for a period of time that corresponds to the one set at the voice timer standby/autosp

2 STANDBY if active after not being used for a period of time that corresponds to the time set at the voice timer standby/autosp, the display is in a standby situation; to output from this situation it is sufficient to do any operation (ex. Movement of the weight)

3 TIMER Standby/Autosp it allows setting the time of intervention for the type of energy saving previously described

4 DISABLE OFF KEY if the key OFF of the device is active, the device is disabled

4.2.4 – Printing Modality

1 PRINTER COM1 menu for settings of printing parameters for the peripheral device connected to the COM1 port

2 PRINTER COM4 menu for settings of printing parameters for the peripheral device connected to the COM4 port

3 PRINTER INT menu for settings of printing parameters for internal peripheral device

SETTINGS FOR EACH MENU:

- Multiple printing

If active, it enables the printing modality with cumulative receipt, vice versa, if disabled, the printing modality with single receipt is activated (ref. Paragraph 2.6 printing modality)

- N° of Copies in Printing

It allows setting the number of receipts/labels that it is meant to print

- N° of Copies Request

If active at each totalization the insertion of the number of receipt/label copies, that have to be printed, is required

- Barcode

It allows the activation while printing, in case of active internal printer (see system menu settings), of a barcode on the receipt; it is possible to select within **NONE, EAN8/NET WEIGHT, EAN8/AMOUNT, EAN13/NET WEIGHT, EAN13/AMOUNT**

- Printing Mode

It allows selecting when to print : Everything, just single, just partial, just totals

4.2.5 - Heading Lines

It is possible to insert 3 lines of 24 characters of receipt header

4.2.6 - Keys F1 F2 F3 F4

It allows associating to the function keys one of the three available options:

NO FUNCTION inactive key

UNBLOCKED TARE FUNCTION (ON/OFF) the pressure of the key enables/disable the block of the tare

AUTOMATIC DESELECTING (ON/OFF) the pressure of the key enables/disable the automatic deselecting of the storage after each weight

MULTIPLE PRINTING COM1 (ON/OFF) the pressure of the key directly inverts from the modality of multiple or single printing

MULTIPLE PRINTING COM4 (ON/OFF) the pressure of the key directly inverts from the modality of multiple or single printing

INTERNAL MULTIPLE PRINTING (ON/OFF) the pressure of the key directly inverts from the modality of multiple or single printing

REQUEST N° COPIES COM1 (ON/OFF) the pressure of the key enables/disable the request of the number of receipt copies for each request of totalization of weight

REQUEST N° COPIES COM4 (ON/OFF) the pressure of the key enables/disable the request of the number of receipt copies for each request of totalization of weight

REQUEST N° COPIES INTERNALV(ON/OFF) the pressure of the key enables/disable the request of the number of receipt copies for each totalization of weight

ACTIVATION INTERNAL PRINTER (ON/OFF) the pressure of the key enables/disables the internal printer

TOTALS QUALIFICATION (ON/OFF) the pressure of the key enables/disables the memorization of the weights

AUTOMATIC TRANSACTION (ON/OFF) the pressure of the key enables/disables the automatic memorization of the weights when the weight is stable

CANCELLATION CURRENT DATA the pressure of the key cancels the selected and set data (item, client, tare, price, free texts)

AUTOMATIC PARTIAL (ON/OFF) the pressure of the key enables/disables the function "Automatic Partial". When the function is enabled the number of partial that has to be reached is required (maximum 360 standard / 90 operators).

4.2.7 - Set Free Texts

The free texts are completely customizable texts in which it is possible to insert captions that in printing phase have to be easily modifiable (ex traceability data).

The free texts are divided into two parts, one fix and the other variable; in this section of the user menu the fixed part is set, that is to say, the free part of text that will not be frequently modified.



Press the arrow key on the right to access to the programming of the fixed part of the free texts



Through the arrow keys place on the text that is meant to be modified, write the text and move to the following text using the arrow keys;

Instructions of use

when the setting has been concluded, press the key ESC to output

RECALL THE FREE TEXTS DURING THE WEIGHT



During the normal operations of weighing key the text that is meant to be associated to the free text (ex lot number) and then press the key next to the icon LOT that appears on the display.



The device visualizes the message SELECTED LOT

4.2.8 – Blocked Tare

If this function is active, it blocks a value of tare inserted after unloading the plate of the scale, too

4.2.9 – Data Storage Management

It allows enabling some options for the management of the storage.

AUTOMATIC DESELECTION

If this function is active, it resets the display from each type of storage code (items, clients, free texts) recalled in the previous transaction.

SWITCHING ON DATA UPLOAD

If this function is active, each time the device is switched on the selections previously made are uploaded , ex. item

SAVE NEW ELEMENTS

If this function is active, each time an item or a client are looked for through description and it is not there it is asked whether to insert it in the storage. If it is added it is also selected.

4.2.10 – Privacy

In this section it is possible to activate a persona password to protect the access to the programming menu in order to avoid interferences that could threaten the good operation of the scale;

it is also possible to select some specific menu which associate a password to, in order to enable the access.

4.2.11 – Fiscal Memory

The access to this menu is allowed just in case of enabled fiscal memory (memories management- system menu -> fiscal memory); once the access to the menu has been done, it is possible to visualize the memorized weights in every memory localisation.

4.2.12 – USB Files Parameters

If a pen drive is connected to the device, for the memorization of the weights (see hardware options – system menu), it is possible to realise some settings in order to satisfy as best as possible the own needs:

FILE EXTENSION it allows choosing the file format, which it is possible to visualize the memorized weights with; it is possible to choose between Excel and the text file.

FILE NAME it allows customizing the name of the file which the weights are saved with, it is possible to choose between "weights" (default setting), ggmmaa, "weights + ID" (ID means device address in case the memorizations are done through more devices), "ggmmaa + ID".

FIELDS SEPARATOR it allows selecting the separator of the different fields of the string transmitted; it is possible to select among ",(default)" ";" "TAB" "PIPE".

WRITING CHECK if active, it verifies that there are not troubles with memorization (disconnected or broken pen drive), in this case the error message is visualized; if inactive, ignore and continue accepting the weights without memorizing.

It is also possible to enable or disable the saving of the following information :

TIME, PROGRESSIVE, ITEM CODE, ITEM DESCRIPTION, CLIENT'S CODE, CLIENT'S DESCRIPTION, CATEGORY DESCRIPTION, GROSS, TARE, NET WEIGHT, PRICE, AMOUNT, QUANTITY, FISCAL MEMORY, DEADLINE, FREE TEXTS

4.2.13 – Emulator Mode

4.2.14 – Operators' list

The Menu is present only if in operators' modality.

It is possible to customize the operator's name and enable the function keys in order to have them associated to the operator's operation.

If the association is disabled, the function keys operate as normal operation.

.

4.3 – SCALE MENU

In the scale menu it is possible to establish all the settings that refer to the weighing of our machinery;

This is the reason why the access to this menu is recommended only to authorized technical personal, as it is restricted through hardware block through jumper JP3 on the cpu card; the movement of the JP3 into a position of active calibration implies the removal of the metrical seals.

Anyway it will be possible to access to the menu in only reading of the set data - modality.

4.3.1 – Homologated Device

If active, it indicates that the device is of an homologated version; thus, it will become possible selections of capacity/division included in the allowed ranges.

4.3.2 – Unity of measure

It selects the unity of measure of the used system between Kilograms and grams.

4.3.3 – Maximum Capacity

It sets the maximum capacity of the used system

4.3.4 – N° Scale Fields

It selects the multiple divisions – operation for the used system; it is possible to select within Single, 2 Fields, 3 Fields, 2 with 6000 div, 3 with 6000 div;

Once the selection has been done, the device automatically places on the correct division (the lowest).

4.3.5 – Division Value

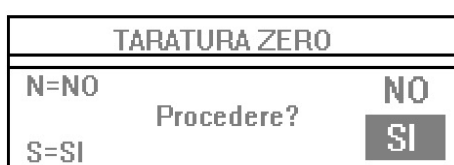
It selects the reading division of the used system; if the system is in a homologated version, just some division values are allowed.

4.3.6 – Zero Calibration

It allows doing the zero calibration of the scale



Press the arrow key on the right or enter to start the phase of zero calibration



Make sure that the plate of the scale is unloaded and press

Instructions of use

YES to confirm the adjustment of the point zero.

4.3.7 – Rated Capacity Adjustment

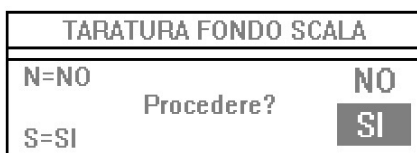
It allows doing the calibration if the rated capacity of the scale using a standard weight.



Press the arrow key on the right or enter to start the phase of adjustment with a standard weight.



Load the standard weight up on the plate of the scale; Key the value of the standard weight and press ENTER; Press YES to confirm the value; then the adjustment of the scale.



4.3.8 – Calibration Zone

It allows selecting the gravity zone where the calibration of the scale is done; it is possible to select within the following already set values : ZONE A, ZONE B, ZONE C, SICILY 2, or it is possible to manually set the desired value of gravity selecting the voice G. NUM.

4.3.9 – Use Zone

It allows selecting the gravity zone where the scale is used; it is possible to select within the following already set values: ZONE A, ZONE B, ZONE C, SICILY 2, or it is possible to manually set the desired value of gravity, selecting the voice G. NUM.

4.3.10 – Weight Filter

This parameter adjusts the digital filter that intervene in the oscillation in the visualization of the weight : the lower the selected value is, the faster the oscillation of the weight on the display is; whereas, increasing the value, the speed of updating of the weight on the display decreases and it remains, thus, less sensitive to the oscillations of the plate of the scale.
Permitted values : from 0 to 9 (default 2)

4.3.11 – Weight Stability

The stability is indicated to the operator through the apposite led situated on the front panel; as each operation, printing or data transmission, is done just when the weight is declared stable, through this parameter it is possible to modify its sensitivity to interference. In this case the indicated values correspond to divisions of oscillation allowed by the system in order to consider the weight stable. The higher the number of divisions is, the less is the sensitivity and, thus, the stability is more easily signalled.
Permitted values : from 0 to 4
(Default : 2)

4.3.12 – Zero chaser

It allows modifying the intervention range of the device of zero chasing.
Permitted values :

- <INACTIVE> : inactive zero chasing
- <1/4> : zero chasing on ¼ of division
- <1/2> : zero chasing on ½ of division

<1> : zero chasing on 1 division
 <2> : zero chasing on 2 divisions
 <3> : zero chasing on 3 divisions
 <4> : zero chasing on 4 divisions
 (Default ½ div)

4.3.13 – Autozero at starting

This parameter indicates the value of weight that can be zeroed by the device at starting, that is to say that, if when the device is switched on there is a weight on the scale, whose value is equal or inferior, both positively and negatively, than the parameter set in this menu, the viewer starts from zero; if it is superior, the viewer visualizes lines upwards indicating "over load", while, if it is inferior, it visualizes lines downwards indicating "under load".

It is possible to select within

INACTIVATED absent Autozero, the display visualizes the weight on the scale at starting 2%, 5%, 10%, 20%, 100% of the maximum capacity.

(default 10%).

4.3.14 – Input Signal

It visualizes the value of the electrical signal read by the load cell in mV.

4.3.15– Last 5 Accesses

It visualizes the last five accesses to the protected programming of the indicator.

4.4 – SYSTEM MENU

4.4.1 – Operation Mode

It sets the operation mode of the device;

it is possible to select between STANTARD operation mode and OPERATORS operation mode (see paragraph 2.7).

4.4.2 – Serial Peripheral Devices

It allows establishing the settings referred to the peripheral device that can be connected to the device.

1- BAUD RATE COM1/COM3 it sets the baud rate of the com1 and com3 ports (from 1200 bps to 115200 bps) (default 9600 bps)

2 – DATA FRAME COM1/COM3 it sets the frame format of the com1 and com3 ports; the available values are N81, N82, E81, E72, O81, O72, E71, (default N81).

3 – CTS COM1 enable/disable the control of the CTS on the COM1 port

4 - BAUD RATE COM2/COM4 it sets baud rate of the com23 port (from 1200 bps to 115200 bps) (default 9600 bps)

5 - DATA FRAME COM2/COM4 it sets the frame format of the com2 port; the available values are N81, N82, E81, E72, O81, O72, E71, (default N81)

6 –COM1 PERIPHERAL DEVICE it allows selecting the device connected to the COM1 serial port

NONE (default)

PLUS

KUBE

TM295

LX300

GENERIC (labelling printer or other type)

RIPE-1 (visualization on new secondary display of one of there variables: NET WEIGHT-GROSS-PARTIAL-TOTAL-CURRENT AMOUNT-TOTAL AMOUNT-PARTIAL PROGRESSIVE)

RIPE-2 (visualization on old secondary display)

7 –COM2 PERIPHERAL DEVICE it allows selecting the device connected to the COM2 serial port

NONE

PC RICH. (default) Connection to pc with transmission of the string on demand

PC CONT. Connection to pc with continuous transmission of the string

JUST WEIGHT Connection to pc with continuous transmission just of the net weight
 PC WEIGHT Connection to pc with transmission of the string when the weight has been acquired
 EMULATOR Connection to pc with transmission of the string in keyboard emulator – modality
 RIPE-1 (visualization on new secondary display of one of these variables: NET WEIGHT-GROSS-PARTIAL-TOTAL-CURRENT AMOUNT-TOTAL AMOUNT- PARTIAL PROGRESSIVE)
 RIPE-2 (visualization on old secondary display)
 SCANNER connection of a barcode reader
 REMOTE connection of a scale through serial line
 BYPASS connection of an input serial line and repeated (elaborated) on another serial peripheral device.
 It is possible to select the output COM port (COM1-COM3-COM4);
 Specify the string terminator;
 Enable the totalization while receiving;
 Specify the prefix of character and string for the repetition of the input data;
 Set the transmission of 5 variables that can be chosen among: none, date/time, number of the scale, progressive number, gross, tare, net weight, net total, price, amount, item id, item code, item description client's id, client's code, client's description, id category, free text 1, free text 2, fiscal memory, operator;
 Specify the suffix of string and of character for the repetition of the input data

8 –COM3 PERIPHERAL DEVICE(RS 485) it allows selecting the device connected to the COM3 serial port

NONE (default)

PC RICH. Connection to pc with transmission of the string on demand

PC CONT. Connection to pc with continuous transmission of the string

JUST WEIGHT Connection to pc with continuous transmission just of the net weight

PC WEIGHT Connection to pc with transmission of the string once the weight has been acquired

EMULATOR Connection to with transmission of the string in keyboard emulator modality

RIPE-1 (visualization on new secondary display of one of these variables: NET WEIGHT-GROSS-PARTIAL-TOTAL-CURRENT AMOUNT-TOTAL AMOUNT- PARTIAL PROGRESSIVE)

RIPE-2 (visualization on old secondary display)

SCANNER connection of a barcode reader

REMOTE connection of a scale through serial line

BYPASS connection of an input serial line and repeated (elaborated) on another serial peripheral device.

It is possible to select the output COM port (COM1-COM2-COM4);

Specify the string terminator;

Enable the totalization while receiving;

Specify the prefix of character and of string for the repetition of the input data;

Set the transmission of 5 variables that have to be chosen between: none, date/time, number of scale, progressive number, gross, tare, net weight, price, amount, item id, item code, item description, client's id, client's code, client's description, id category, free text 1, free text 2, fiscal memory, operator;

Specify the suffix of string and character for the repetition of the input data

9 - COM4 PERIPHERAL DEVICE(optional serial expansion) it allows selecting the device connected to the COM4 serial port

NONE (default)

PLUS

KUBE

TM295

LX300

GENERIC (labelling printer or other type)

RIPE-1 (visualization on new secondary display of one of these variables : NET WEIGHT-GROSS-PARTIAL-TOTAL-CURRENT AMOUNT-TOTAL AMOUNT- PARTIAL PROGRESSIVE)

RIPE-2 (visualization on old secondary display)

11 – NETWORK SETTING it allows setting the data for network connection: DHCP (not used, momentarily only static), IP ADDRESS, SUBNET MASK, GATEWAY. If Wi-Fi module, also the parameters SSID, AUTHENTICATION TYPE, PASSWORD, WI-FI CHANNEL, WIFI POWER, WIFI NETWORK TYPE **(just for COM2)**

11 – DEVICE ADDRESS

It allows assigning to the device an address number included within 0 and 99 in order to identify it in case of more than one device connected

12 – INTERNAL PRINTER enables/disables the internal printer connected to the device through the TTL port

13 – PRINTING ALIGNMENT set the number of empty lines at the beginning and at the end of the printing

14 – VERIFICATION OF COMMUNICATION enable the verification of communication through PC on the ports enabled for this communication. If this function is enabled and there is not communication with the PC, the problem is signalled.

4.4.3 – Totalization Menu

It allows establishing settings referred to the memorization of the weights.

1 ENABLE TOTALS if active, it enables the totalization of the weights

2 TOTALIZATION MODE it selects the method used to memorize the weights

KEY the memorization of the weights happens after pressure of the key 'print'

AUTO the memorization of the weights automatically happens when reached the conditions of stable weight.

SCANNER the memorization of the weights happens reading of the barcode

3 MINIMUM WEIGHT it indicates a value of weight under which no totalization function is done

4 REINSTATE WEIGHT it indicates the condition of weight that make it possible, after doing a weight, to weigh again.

ALWAYS the weights are memorized each time the key PRINT is pressed (it is not possible to automatically match the totalization)

INSTABILITY the weights are memorized after a movement of the weight when the key PRINT is pressed or when the conditions of stability are reached

ZERO PASSAGE the weights are memorized only after the complete unloading of the plate of the scale after pressure of the key PRINT or automatically when the stability is reached.

5 – TOTALIZE AND RESET if active, this parameter resets the weight on the scale after each totalization;

the total weight on the scale is completely visualized when the partial total is recalled.

6 – PROGRESSIVE MODE it indicate the operation mode of the progressive

TOTAL

GENERAL

CONTINUOUS

7 – UPDATE STORAGE PRICE if an item is selected and the set price is different from the one in the storage, it is possible to choose how to proceed with the totalization:

NO the price is not updated

REQUEST it is asked whether to update the price for the selected item

AUTHOMATIC the new price is saved in the items storage

4.4.5 – Hardware options

It allows establishing the settings referred to the optional cards installed

1 USB PEN if active, it enables the writing on usb pen (new optional card)

2 INPUT FUNCTIONS (SW/IO card optional card) *two inputs*, which to connect to buttons of any kind rather than remote control or devices that simulate an impulse to activate some functions that can normally be accomplished through keyboard;

3 OUTPUT FUNCTIONS (SW/IO card optional card) *four logical outputs*, then, four relè that activates according to the settings established;

4 ANALOGICAL OUTPUT (SW/AN optional card) the device offers an output mA or V according to the weight put on the scale

INPUTS MENU

INPUT FUNCTION 1 or 2: it associates to the input one between the following functions:

ZERO when an impulse is received the weight in the scale resets

TARE when an impulse is received it sets as tare value a possible weight in the scale; the pressure prolonged for some seconds resets the tare

PRINT when an impulse is received it sets the printing command; the pressure prolonged for some seconds prints the partial

WEIGHT when an impulse is received it acquires a weight and, if a printer is connected, it prints the receipt; the pressure prolonged for some seconds prints the partial

TOTAL when an impulse is received it makes the partial total of the weights

C.TARE when an impulse is received it deletes the tare

SCALE when an impulse is received it switches from scale 1 and scale 2, if enabled, an vice versa

TARE PRE when an impulse is received it is set the inserted associated tare, when this function is enabled

INPUTS TEST it visualises the condition of the keys

OUTPUTS MENU

OUTPUT MENU 1 , 2 , 3 and 4: to set the output function, the state of the relé and the maximum time of activation of the relé as 1/10 sec.

The functions that can be associated to each output are the followings :

NET WEIGHT Relè that activates when the set threshold, referring to the value of net weight in the scale, is overcome

GROSS Relè that activates when the set threshold, referring to the value of gross in the scale, is overcome

AMOUNT Relè that activates when threshold, referring to the value of amount set in the scale, is overcome

WEIGHT Relè that activates when a weight is totalized

OUTPUTS TEST it manually enables/disables the outputs

SETTING SET POINT VALUE

In order to set a value that is meant to be associated to one of the four relè of the logical outputs, it only takes, if the scale is in normal operation modality, to key the value, which, it is desired that the relè inverts state at, and press the arrow key next to the icon with the name of the set point you are interested in

If the voices SET1, SET2, SET3, SET4 are not immediately visualized on the display, it is possible to look for them, pressing the arrow key next to the icon OTHER. (the value has to have the decimal place ex. 4.0 and not 4)

ANALOGICAL OUTPUT it allows modifying the settings referred to the analogical output

1 RATED CAPACITY it sets the value of weight, which it is desired to have the maximum value of the analogical output at

2 RANGE ANALOGICAL OUTPUT it is possible to select the range, both in volts or mA, that is meant to receive in output; it is possible to select within 0-10V; 0-5V; 0-20 mA; 4-20 mA

3 TYPE OF ANALOGICAL OUTPUT it chooses if the value of output has to be calculated according to the gross or the net weight

4 ZERO ADJUSTMENT it allows adjusting in a precise way the value of the zero

5 REG. RATED CAPACITY it allows adjusting in a precise way the rated capacity of the analogical output.

4.4.5 - Display Mode

It select the mode of visualization of the LCD display between mode1 (standard modality) and mode1 in which the biggest tare is visualized (multiple tare) and contrary to mode1 the settings, such as, for example, price, amount and bar of weight flowing, exc., are not visualized.

4.4.6 – Soft Keys Page

It sets the initial page for the selection of the rapid functions through direct insertion through keyboard (ex. item research, set-point setting, price insertion, exc.)

4.4.7 – Language

It sets the language of the device (ITALIAN/ENGLISH)

4.4.8 – Measure System

It allows setting the device in POUNDS, selecting the Anglo-Saxon modality

4.4.9 – Double Platform

If active, it allows connecting to the device a second weighing base

4.4.10 – Hide logo

Enables/disables the visualization of the logo ODECA (or the set one) at starting

4.4.11 – Memories Management

Menu for the management of the memory

1 MEMORY EXPANSION if active, it enables the writing of the additional descriptions (other 16 lines of 60 characters) for the items and other 5 customized printing formats

2 FISCAL MEMORY if active, it enables the memorization of the transactions on fiscal memory

3 RESET FISCAL MEMORY it resets the fiscal memory (it requires a password)

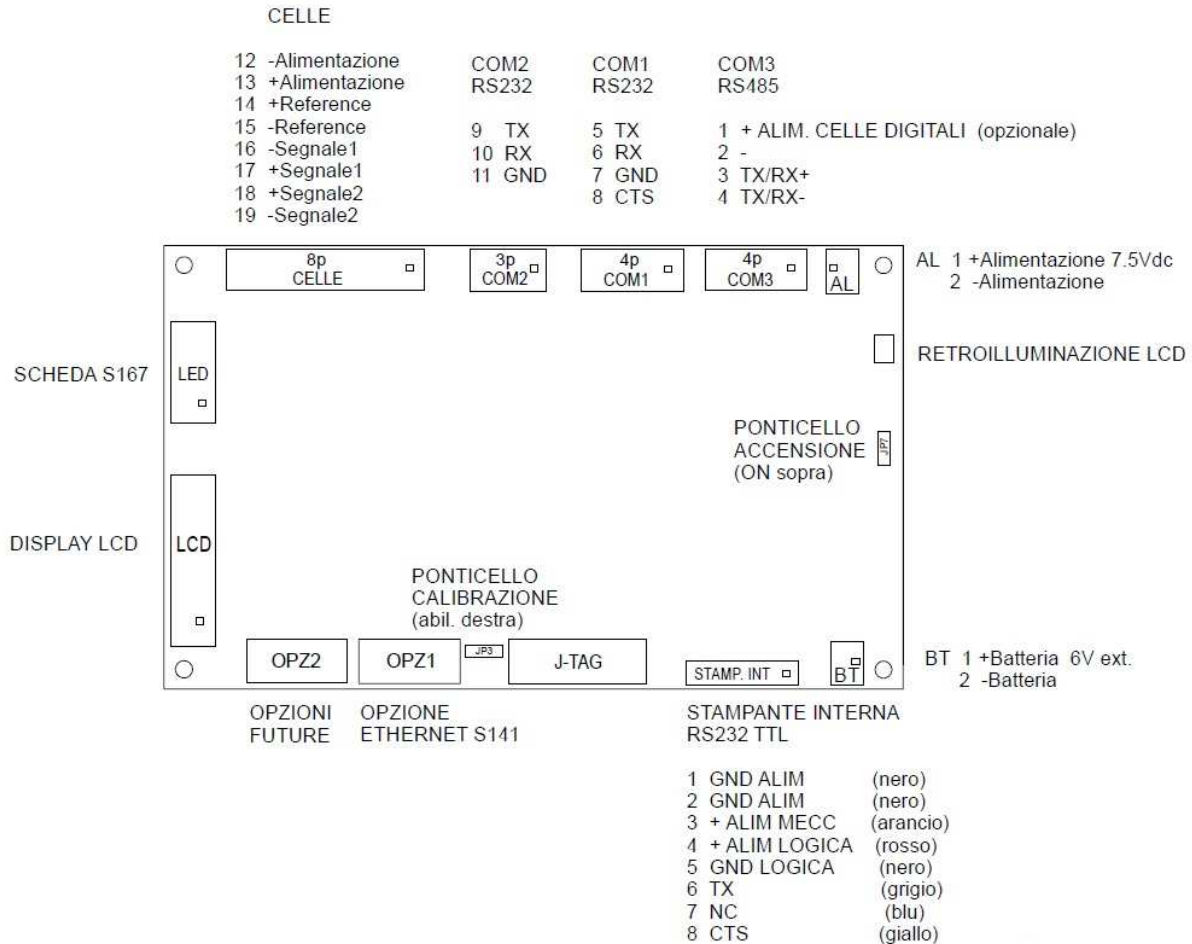
4 RESET PRINTING FORMAT it resets all the customized printing formats (4 default plus 5 on memory expansion) with the standard ones

5 BACKUPS if there is a memory expansion, it saves the operative parameters and the storages (items, clients, categories and categories)

6 RESTORE if there are a memory expansion and the backups are active, it refreshes the operative parameters and the storages (items, clients and categories)

7 FACTORY SETTINGF it resets the device

CONNECTIONS



5.1 – LOAD CELL CONNECTION

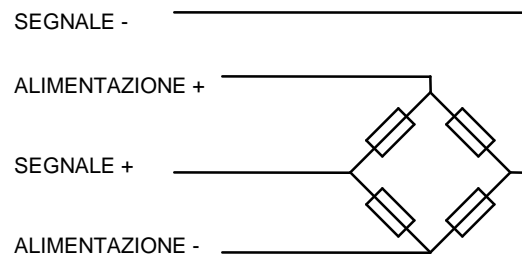


- The cable of the cell must not be channelled with other cables (ex. Outputs connected with contactors or power cables), but it must follow its own path.

Up to 8 350-ohm cells can be connected in parallel to the device. The power potential difference of the cells is 5Vcc and it is protected by temporary short circuit. The measure field of the device implies the use of load sells whose sensitivity is from 1 mV/V to 4 mV/V.

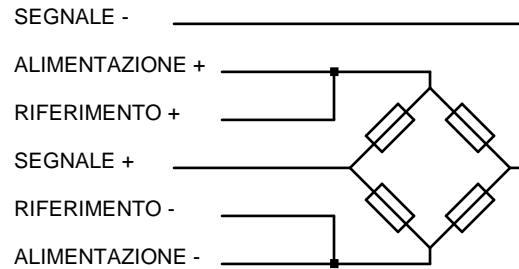
4 WIRES- CONNECTION

- | | |
|-----------|-------------------------------------|
| 1 : EXC- | POWER SOURCE - |
| 2 : EXC+ | POWER SOURCE + |
| 3 : REF+ | To have a short circuit with clip 2 |
| 4 : REF- | To have a short circuit with clip 1 |
| 5 : SIG- | SIGNAL - (Platform N° 1) |
| 6 : SIG+ | SIGNAL + (Platform N° 1) |
| 7 : SIG + | SIGNAL + (Platform N° 2) |
| 8 : SIG - | SIGNAL - (Platform N° 2) |



6 WIRES - CONNECTION

- 1 : EXC- POWER SOURCE -
- 2 : EXC+ POWER SOURCE +
- 3 : REF+ REFERENCE +
- 4 : REF- REFERENCE -
- 5 : SIG- SIGNAL - (Platform N° 1)
- 6 : SIG+ SIGNAL + (Platform N° 1)
- 7 : SIG + SIGNAL + (Platform N° 2)
- 8 : SIG - SIGNAL - (Platform N° 2)



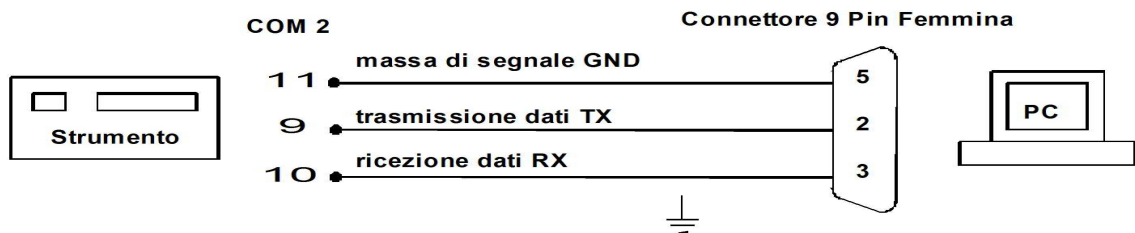
5.2 -RS232 SERIAL CONNECTION WITH PERSONAL COMPUTER



- In order to realize a serial connection, use an isolate cable, paying attention to **connecting the screen to the ground to just one of the two extremities**. If the cable has a number of conductors superior than the ones used, connect the screen to the free conductors.
- The serial connection cable has to be maximum 15 metres long (EIA RS-232-C norms), beyond which it is necessary to adopt the Rs422 interface.
- The cable does not have to be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.
- The PC used for the connection has to be in compliance with the EN 60950 norm.

It is shown below the connection scheme both with the 25 poles – PC connector and with the 9 poles – PC connector:

5.3

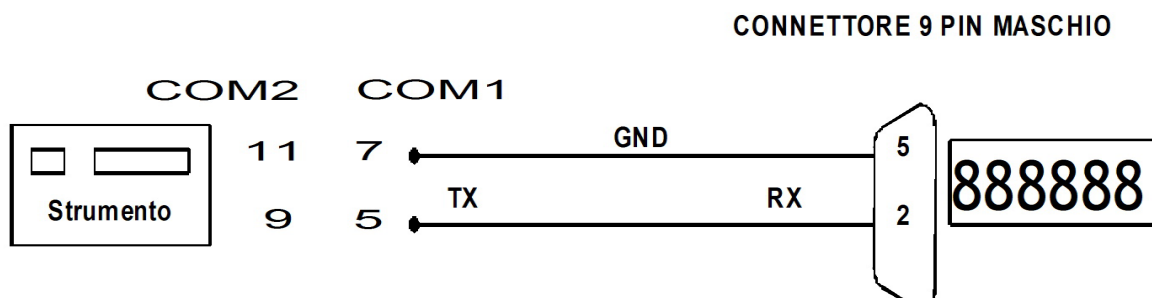


RS232 SERIAL CONNECTION WITH R20 REPEATER



- In order to realize a serial connection use an isolate cable. If the cable has a number of conductors superior than the ones used, connect the free conductors to the screen.
- The serial connection cable must be maximum 15 metres long (EIA RS-232-C norms), beyond which it is necessary to adopt the Rs422 interface.
- The cable must nit be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.

It is shown below the connection scheme for the connection both to the COM1 port and the COM2 port

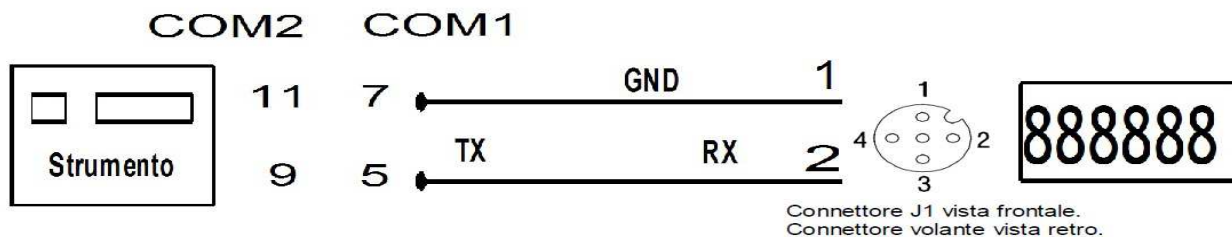


5.4 – CONRS232 SERIAL CONNECTION WITH R60 REPEATER



- In order to realize the serial connection, use an isolate cable. If the cable has a number of conductors superior than the ones used, connect the free conductors to the screen.
- The serial connection cable must be maximum 15 metres long (EIA RS-232-C norms), beyond which it is necessary to adopt the Rs422 interface.
- The cable must not be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.

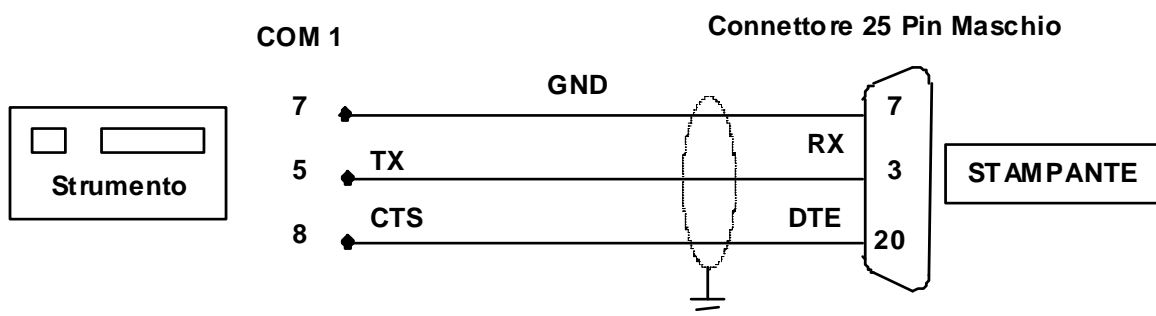
It is shown below the connection scheme for the connection both to the COM1 port and the COM2 port



5.5 – RS232 SERIAL CONNECTION WITH TMU295 AND LX300 PRINTER



- The printer must be assembled so that the length of the cable for the serial connection to the device is by 15 metres (EIA RS-232-C norms).
- A male 25 poles - type D subminiature connector has to be wired up to the connection cable; it has to be inserted in the female connector assembled on the back panel of the printer.
- To realize a serial connection use an isolate cable, paying attention to connecting the screen to the ground to just one of the two extremities. If the cable has a number of conductors superior than the ones used, connect the free conductors to the screen.
- The cable must not be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.

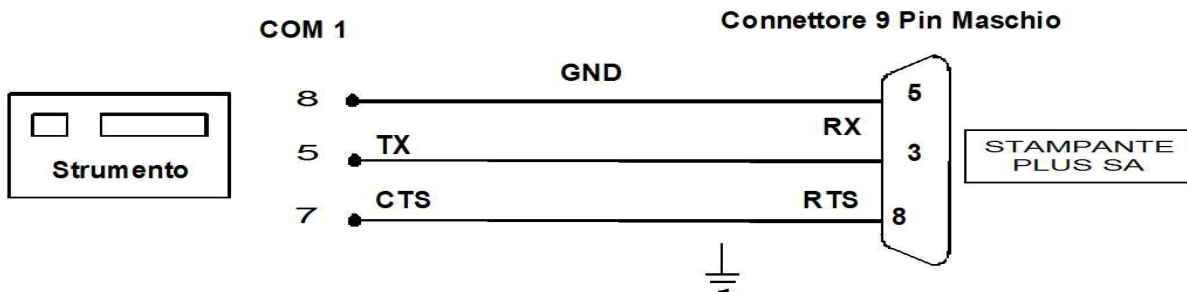
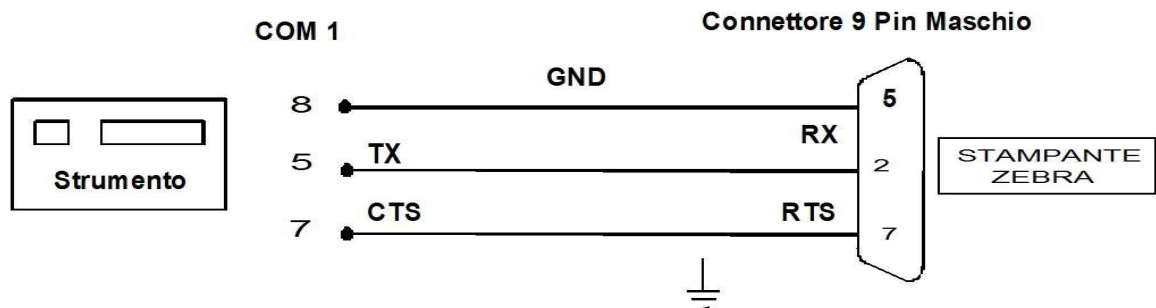


5.6 – RS232 SERIAL CONNECTION WITH ZEBRA OR CUSTOM PRINTER



- The printer must be assembled so that the length of the cable for the serial connection to the device is by 15 metres (EIA RS-232-C norms).
- A male 9 poles - type D subminiature connector has to be wired up to the connection cable; it has to be inserted in the female connector assembled on the back panel of the printer.

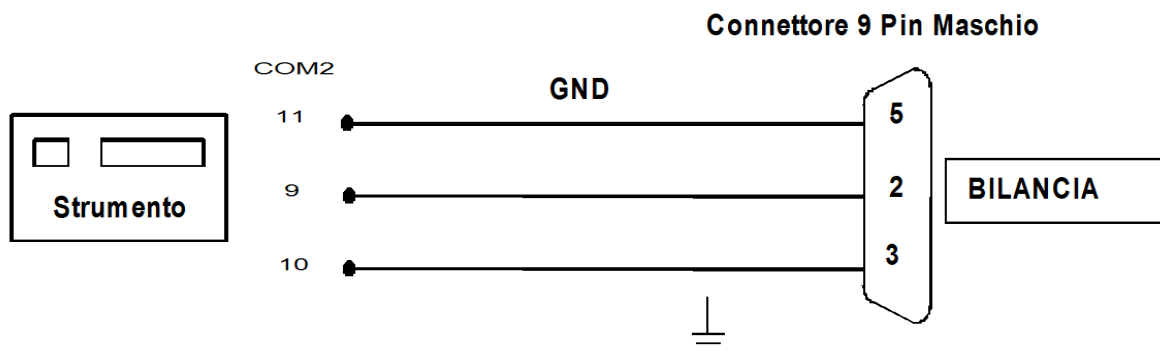
- To realize the serial connection use an isolated cable, paying attention to connecting the screen to the ground to just one of the two extremities. If the cable has a number of conductors superior than the ones used, connect the free conductors to the screen.
- The cable must not be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.



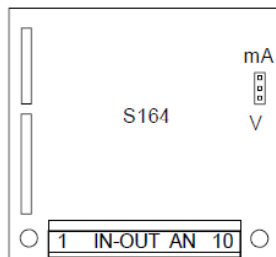
5.7 – RS232 SERIAL CONNECTION WITH REMOTE SCALE



- The scale must be assembled so that the length of the cable for the serial connection to the device is by 15 metres (EIA RS-232-C norms).
- A male 9 poles - type D subminiature connector has to be wired up to the connection cable; it has to be inserted in the female connector assembled on the back panel of the scale.
- To realize the serial connection use an isolated cable, paying attention to connecting the screen to the ground to just one of the two extremities. If the cable has a number of conductors superior than the ones used, connect the free conductors to the screen.
- The cable must not be channelled with other cables (ex. outputs connected to conductors or power cables), but it possibly has to follow its own path.



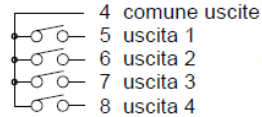
5.8 – S164 OPTIONAL CARD CONNECTIONS INPUTS/OUTPUTS



Ponticello di selezione tra V e mA dell'uscita analogica

MORSETTIERA

1 Ingresso 1 _____ +
 2 Ingresso 2 _____ + 7.5Vcc - 24 Vcc (a cura del cliente)
 3 comune Ingressi _____ -

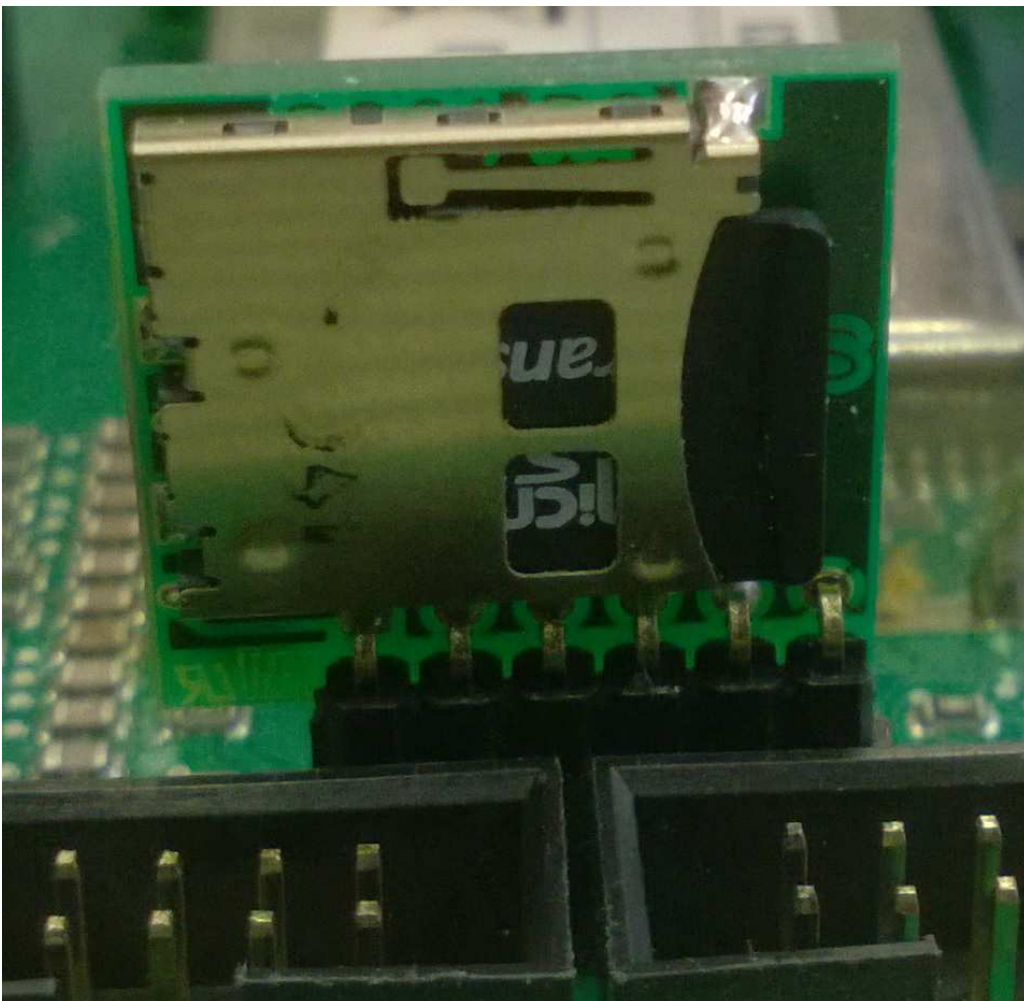


Corrente massima uscite 100 mA

9 + uscita analogica (V o mA) Tensione: minimo 10 KOhm Corrente: massimo 300 Ohm
 10 - uscita analogica

Per l'uscita analogica utilizzare cavo schermato (schermo a terra).

5.9 – OPTIONAL CARD EXPANSION OF MEMORY CONNECTIONS



6. GRAVITY ZONES TABLES

TABLE 1 – Correspondence within gravity zones, codified denomination, associated g and metrological features.

Gravity Zone of use	Codified denomination	Associated
A	ZONE A	9,80655 m/s ²
B	ZONE B	9,80237 m/s ²
C	ZONE C	9,80129 m/s ²
SICILY 2	SICILY 2	9,79819 m/s ²
G NUM		It can be inserted manually

TABLE 2 – Territorial correspondence of the zones A, B, C, SICILY2

ZONE A	ZONE B	ZONE C	ZONE SICILY 2
EMILIA ROMAGNA FRIULI VENEZIA GIULIA LIGURIA LOMBARDIA MARCHE PIEMONTE TOSCANA TRENTINO ALTO ADIGE UMBRIA VENETO	ABRUZZO CAMPANIA LAZIO MOLISE PUGLIA	BASILICATA CALABRIA SARDEGNA SICILIA 1 (Messina, Palermo, Trapani)	Agrigento Caltanissetta Catania Enna Ragusa Siracusa

WARRANTY

The warranty lasts ONE YEAR from the delivery of the device and it consists in the free covering of the handwork and of the spare parts for DEVICES RETURNED EX WORK of the SELLER. The warranty is valid in case of damages that can NOT be attributed to the Customer (for ex. inappropriate use) and that can NOT be attributed to the transport.

If, for any reason, it is required (or it is necessary) an intervention where the device is used, the costs for the technician's transfer are in charge of the Customer: time and costs of travel and, in case, room and board.

If the device is sent through courier, the costs of transport (a/r) are in charge of the Customer.

The WARRANTY DECADES in case of damages caused by interventions of not authorized staff or of connections to machineries installed by others or by wrong insertion in the power net.

IT IS EXCLUDED any compensation for damages, both direct or indirect, caused to the Customer by the lacking or partial operation of the device or machineries sold, even if during the period of warranty.

CE CONFORMITY CERTIFICATE

The devices are in compliance with the technical Norms and with the CEE Directives in force.
The Conformity Certificate is attached to this manual as a separated sheet.

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