GI650
TOTALIZER

EN
TOUCH SCREEN INDICATOR

V.1.4_12/09/2022

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INDEX

1. INTRODUCTION

Dear User,

the performance that the equipment you have acquired will offer you, will be all the greater the more attention you devote to the instructions for use included in this manual. Please break our traditional apathy towards the manuals and do not wait for "everything goes wrong" for a consultant, so you can enjoy optimal benefits from the execution of the first weight.

This equipment is designed to work on one hand as basic equipment to carry out weighing with or without tare, assigning these weights to their corresponding code. Up to a maximum of 9200 weighings can be memorized.

1.1 CHARACTERISTICS

CONNECTION OF THE LOAD CELL

Precision Class	III or IIII
Fraction factor	p'I = 0,5
Minimum input voltage per VSI	> 0.3 uV
Excitation voltage	5 V DC
Min. transducer resistance	29 Ω
Max. transducer resistance	1200 kΩ
Maximum length of cable	5714 m/mm²
Temperature range	-10°C à +40°C

OPERATION INTERFACE

Display	LCD tactil 800x600

COMMUNICATION

Port Tx/Rx: (Channel 1)	RS-232 bi-directional
Port Tx/Rx: (Channel 2)	RS-232 bi-directional
Port Tx/Rx:	RS-485 bi-directional
Port Ethernet	
Port USB	Compatible with USB 2.0
Transmission Speed	300 - 115200
Bits	7 and 8 bits
Parity	No; Even and Odd

POWER SUPPLY

Power Source	110 - 230VAC, 50-60 Hz

OPERATING CONDITIONS AND MECHANICAL DATA

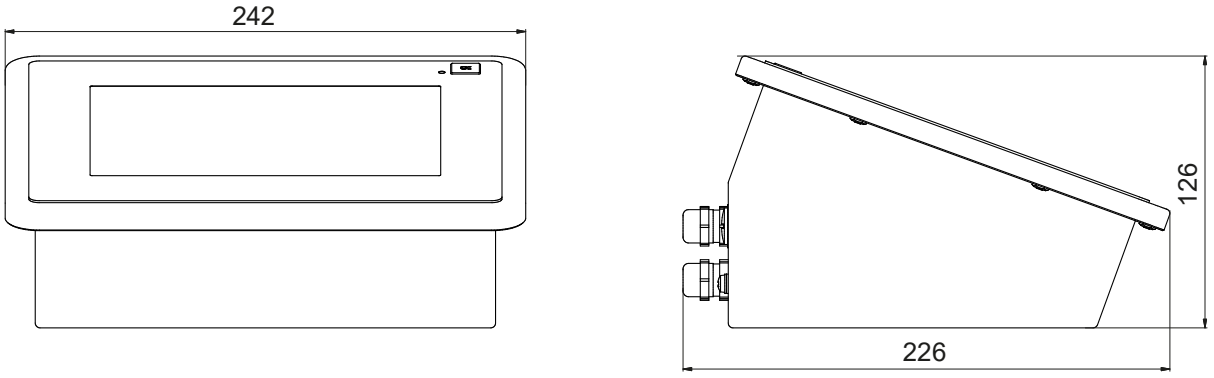
Operation Temperature Range	from -10ºC till 40ºC
Max. Temperature Range	from -25ºC till 70ºC
Size without Support (mm)	242 x 212 x 84
Weight without Support	~ 2.8Kg
Support	Desktop and Wall

1.2 GENERAL FUNCTIONAL CHARACTERISTICS

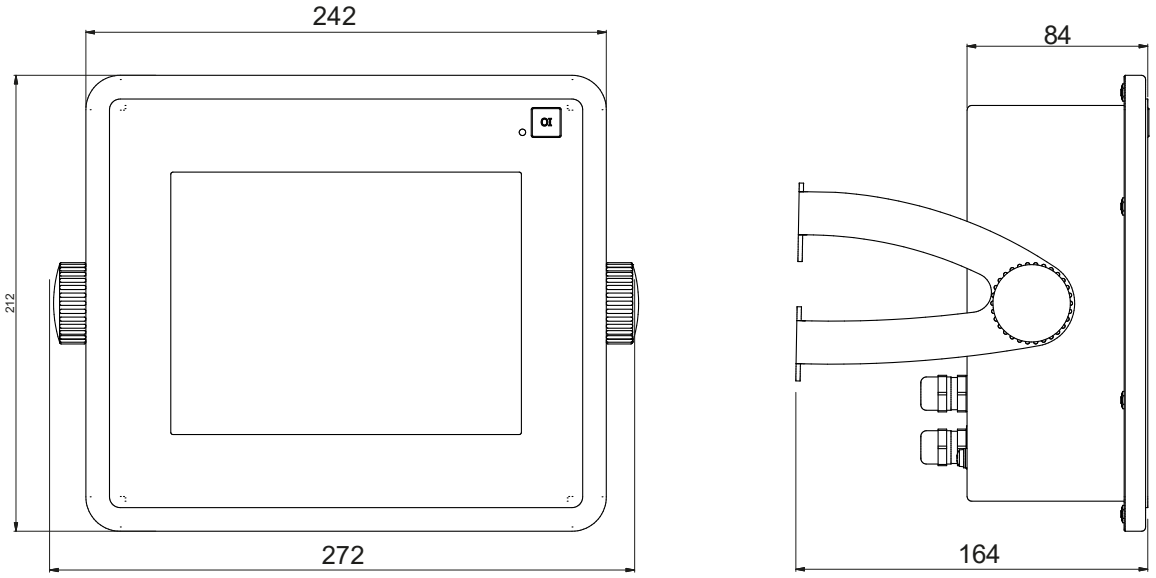
- **Display**
  The GI650 has a Touchscreen Display with integrated backlight.
- **Password**
  Password protection for metrological and security Parameters
- **Theoric Calibration**
  If the reference weight is not available, you can perform a theoretical calibration by using the capacity and sensitivity values (mV/V) of the load cells.
- **Import / Export Data**
  It is possible to export the code files and weighings via USB to a PC to manage / edit the categories.
- **Manage Files**
  It is possible to store and manage up to 1600 code-files. These files are used in 4 different types: **Product** (1000), **Customer** (400), **Free cod.1** (100) and **Free cod.2** (100). It is also possible to program a specific name for each code.
- **Manage Weighings**
  It is possible to store and manage up to 9200 weighings in 2 different types: **open weights** and **Weights** (4600 each).
- **Manage memorized Tares**
  It is possible to store and manage up to 300 Tare values.
- **Manage the Printer**
  It is possible to work with 2 printer/labeler on the GI650. You can also free configure the printouts and on which printer, which information is printed.
- **Software**
  GI Manager
- **Repeater available**
  It is possible to work with a Repeater through the serial RS-232 Port or the optional RS-485 Port
- **Alibi-Memory**
  Alibi-Memory (DSD) is available.
- **Barcode-Reader**
  It is possible to work with a Barcode-Reader.
- **External Keyboard**
  It is possible to plug an external Keyboard through the serial USB-Port

1.3 DIMENSIONS

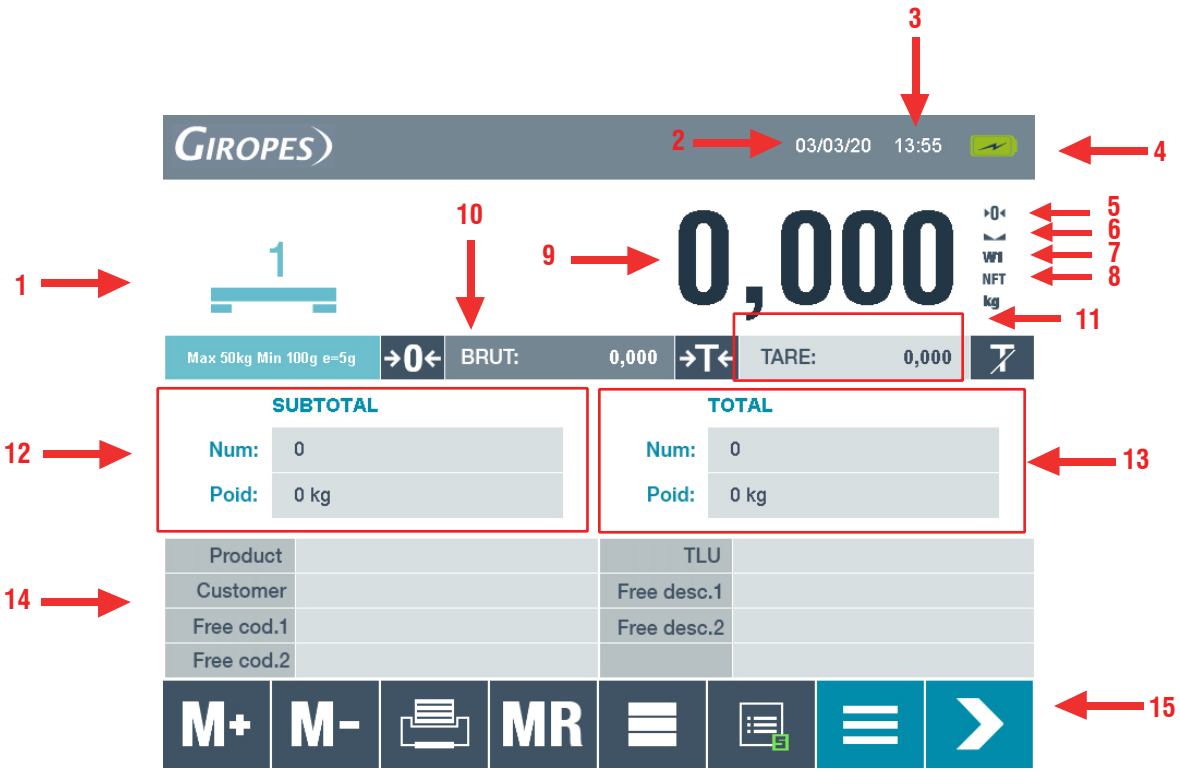
BENCH TOP



ON WALL



1.4 DISPLAY



Number	Function
1	Platform-number and Configuration
2	Date
3	Time
4	Charging-indicator
5	Zero-indicator
6	Stable-indicator
7	Weight-range
8	Net-indicator
9	Net-weight
10	Gross-weight
11	Tare-weight
12	Number and Weight of Subtotal
13	Number and Weight of Total
14	Categories
15	Command-Keys

1.5 KEYS AND FUNCTIONS

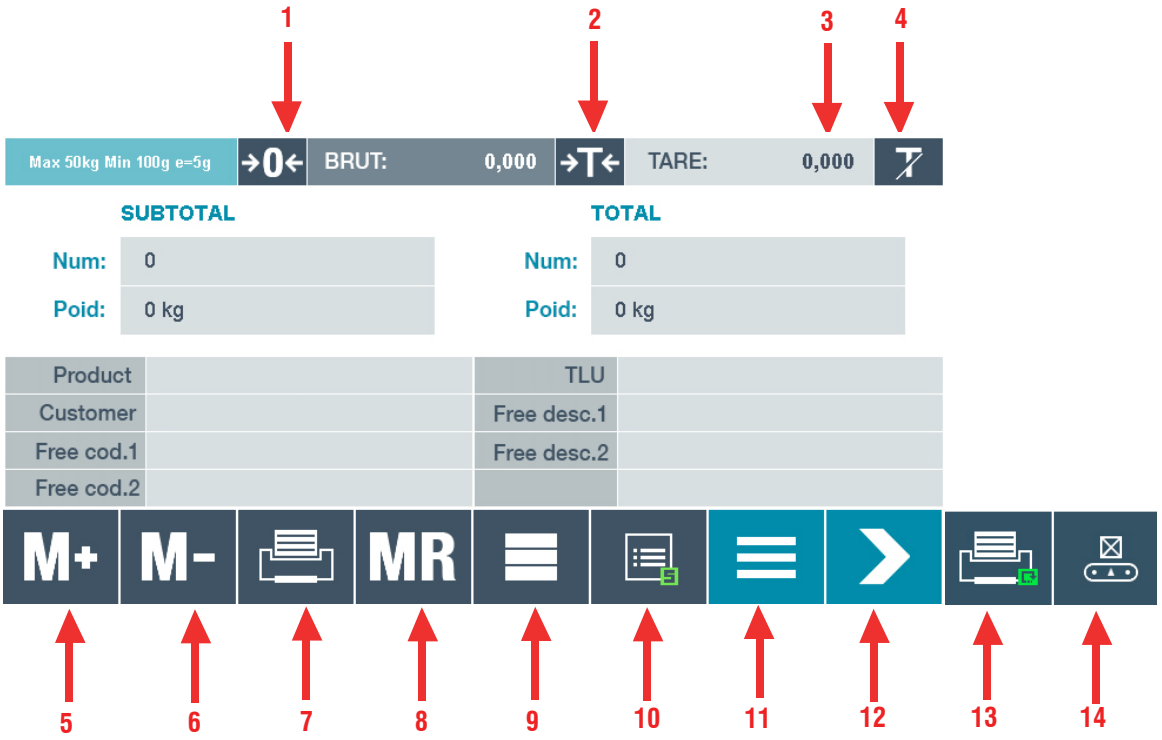
It is possible to choose between 3 different Keyboards:

QWERTZ, QWERTY and AZERTY

To change the Keyboard you have to access to the Main-menu by 

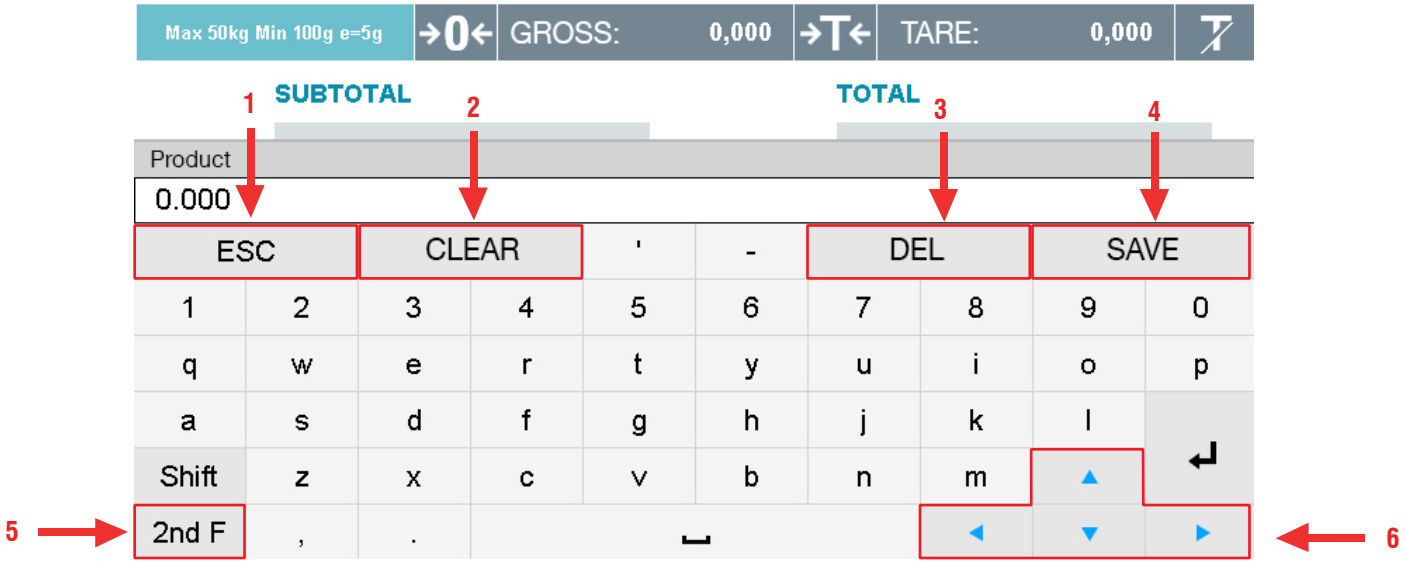
Choose the Menu point **General** and change the settings.

MAIN-DISPLAY



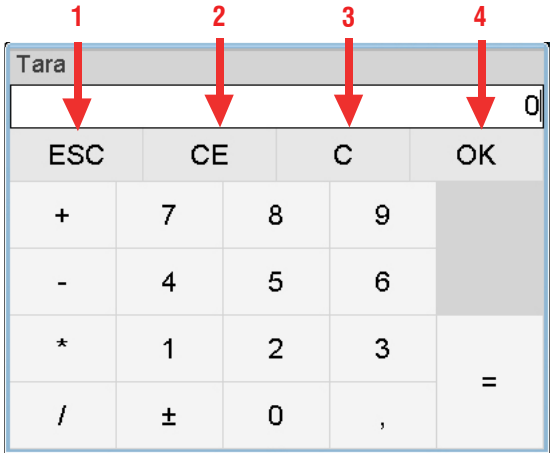
Number	Function
1	Zero
2	Tare
3	Set Manual Tare
4	Deactivate Tare
5	Accumulate the Weight
6	Subtract the last weight
7	Totalize: Subtotal --> Total
8	Totalize: Total --> Big Total
9	Fastkey to access Database
10	See actual Summary of open weights
11	Access to Main-menu
12	Change to Page 2 of commands
13	Reprint the last ticket
14	Activate / Deactivate the Checkweigher

KEYBOARD-DISPLAY



Key	Function
1	Exit the Keyboard
2	Clear all letters
3	Delete the last letter
4	Save the changes
5	Change to the special characters
6	Arrow Keys

NUMERIC-KEYBOARD



Key	Function
1	Exit the Keyboard
2	Clear all numbers
3	Delete the last number
4	Save the change

1.6 FUNCTIONS WHEN STARTING THE INDICATOR

To turn on the indicator press the key 

The Display turns on, showing the Firmware-, Bootloader- and Weightmodel-version, also the CRC-value and the number of Calibrations during the initialization.

After finishing the initialization, the indicator is performing the initial zero.

To do this, the indicator must be connected to the Load cell and following conditions must be made:

- The weight must be stable (indicator for stability  is on)
- The weight must be inside the range of initial Zero (15% in positive and 5% in negative)

During this operation, the Display will show “0 init” till the weight is in range.

2. WEIGHING INSTRUCTIONS

PLEASE NOTE:

This equipment comes with a standard factory configuration. It is strongly recommended to program the databases and the different codes as required.

Before do your first weighing you have to select a Product **OR** Client.

Without doing this, it is not possible to store any weight.

You can put the Data directly into the respective Field or select from Database (see point 3.2)

SUBTOTAL		TOTAL	
Num:	0	Num:	0
Weight:	0 kg	Weight:	0 kg

Product		TLU	
Customer		Free desc.1	
Free cod.1		Free desc.2	
Free cod.2			

ZERO

When you press the key  ,this assumes the metrological function of weight zeroing.

To do this, the following conditions must be made:

- The weight must be stable (indicator for stability  is on)
- Weight value not less than -2% of the Max. in relation to the zero of the calibration
- Weight value not higher than 2% of the Max. in relation to the zero of the calibration

The sign  indicates that the function has been done.

TARE

There are different types of tare that are described in the following sections.

TARE NORMAL

Pressing the key  the indicator will take the current value as tare.

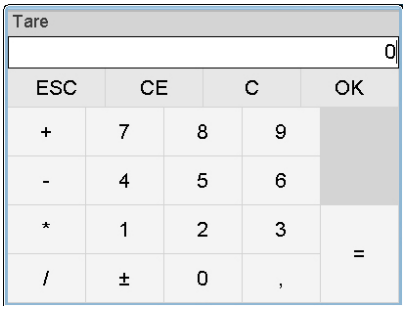
To the right of the weight, the NET-indicator will be displayed.

TARE MANUAL

Pressing the Tare-value 

will open the Numeric-Keyboard to enter the Tare-value.

Also you can press the field TLU, and set the tare manually. After saving the value with the **OK** button. The value will be shown in negative in the indicator. To the right of the weight, the NET-indicator will turn on.



DEACTIVATE TARE

To deactivate the tare, press the  button.

MEMORIZED TARE

To activate a memorized Tare press the button TLU on the right side, the list with memorized tare will open. Choose the tare you need in the list and confirm. The tare will be activated and the NET-indicator will turn on.

CHECKWEIGHER

The GI650 is equipped with a **Checkweigher** function. The different areas are displayed in different Colours.

There are 2 ways to activate. You can set the Checkweigher included into each Product (will be explained in point 3.2).

The other way is to set it directly in the menu. At first you have to access to the Main-menu by pressing  . Choose the Menu-point **Functionality** and you will see the settings of **Check Weight Low**, **Check Weight High** and **Check Weight Alarm** (the "OK-range" automatically is set between the Low and High). Press the showed value you want to modify (by default it is set on 0) and the Numeric keyboard will appear.

Input all 3 values, when you finish press the key  to save the changes. The Checkweigher is **NOT** activating automatically.

To activate the Checkweigher you have to first press  in the weighing-screen, to change the page of commands.

Now press  to activate the Checkweigher.

Its possible to choose if the Checkweigher uses the Net or Gross weight for to show the actual Zone.

Also is possible, to choose the Checkweigher-zone in which the it is allowed to store the data. The possible options are:

All zones; Ok-zone; Ok-zone and high limit

ACCUMULATION AND TOTALIZE

In general you have **3 Steps** of storing the Data:

- The first Step is the **Subtotal** for example a Package.
- The second Step is the **Total** for example a Pallet of Boxes.
- The third Step is the **Big Total** for example the Truck of a Customer.

For store a weight, you have to insert a Product **OR** Client first, without this, no storing of weight is possible.

SUBTOTAL		TOTAL	
Num:	0	Num:	0
Weight:	0 kg	Weight:	0 kg

Product		TLU	
Customer		Free desc.1	
Free cod.1		Free desc.2	
Free cod.2			

After this you can place the weight on the pan, please note that the weight have to be higher than the minimum-weight.

Wait till the stability-indicator turn on and press M+ to store the weight in the **Subtotal**. Repeat this operation till all weights of the **Subtotal** are made.

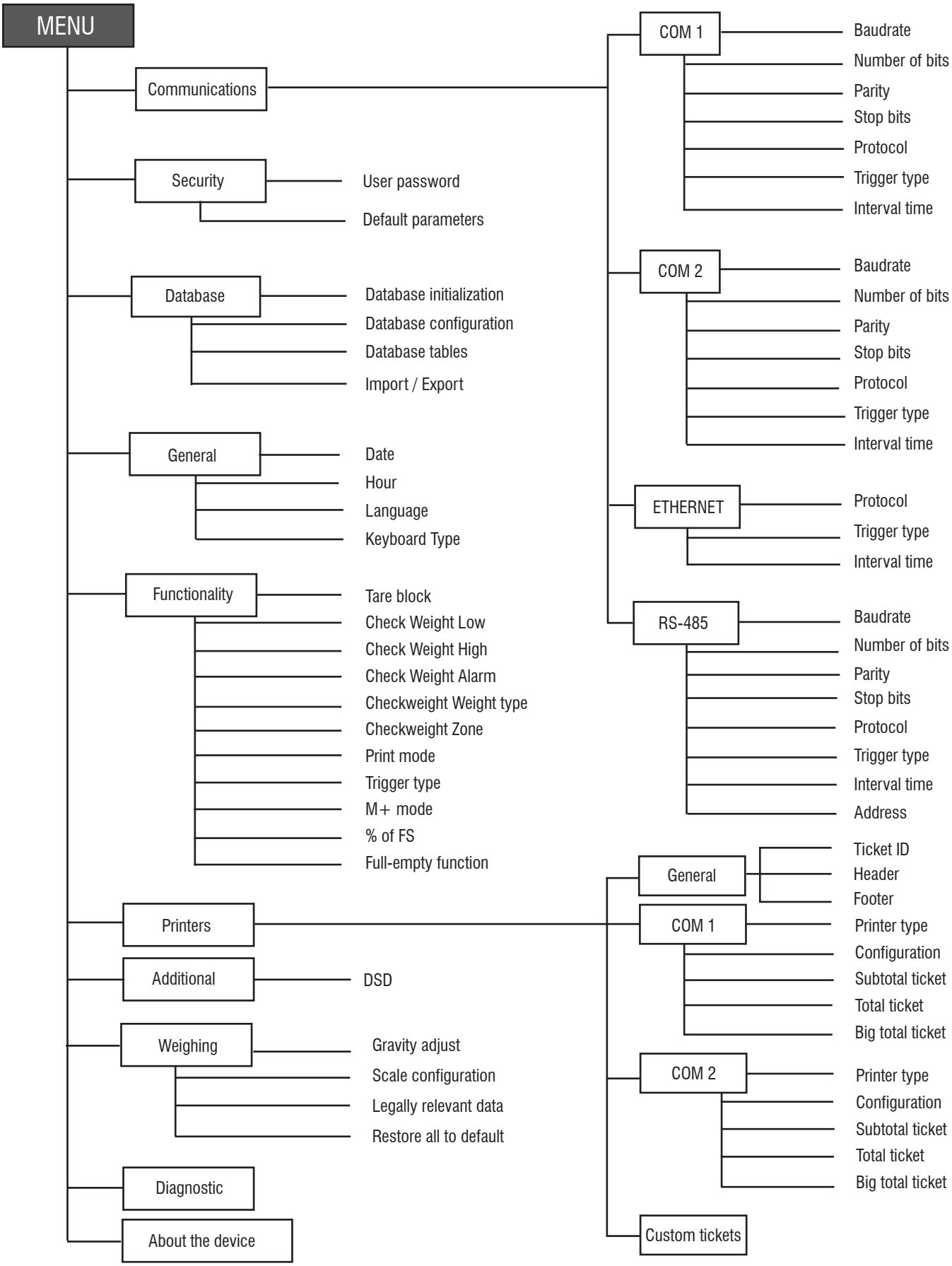
When finish the weighings of the **Subtotal** press  for store the actual **Subtotal** into the **Total**. The number of weighings and the weight will be moved into the column **Total**, and the **Subtotal** values reset back to 0. Now you can start a new Accumulation of the **Subtotal**. During the Weight-operation you can check the actual Accumulation by press  . It will visualize the columns of the **Subtotal** and **Total**.

When all the weights are finished you have to store the **Total** into the **Big Total**. Press the Button MR to store the Data.

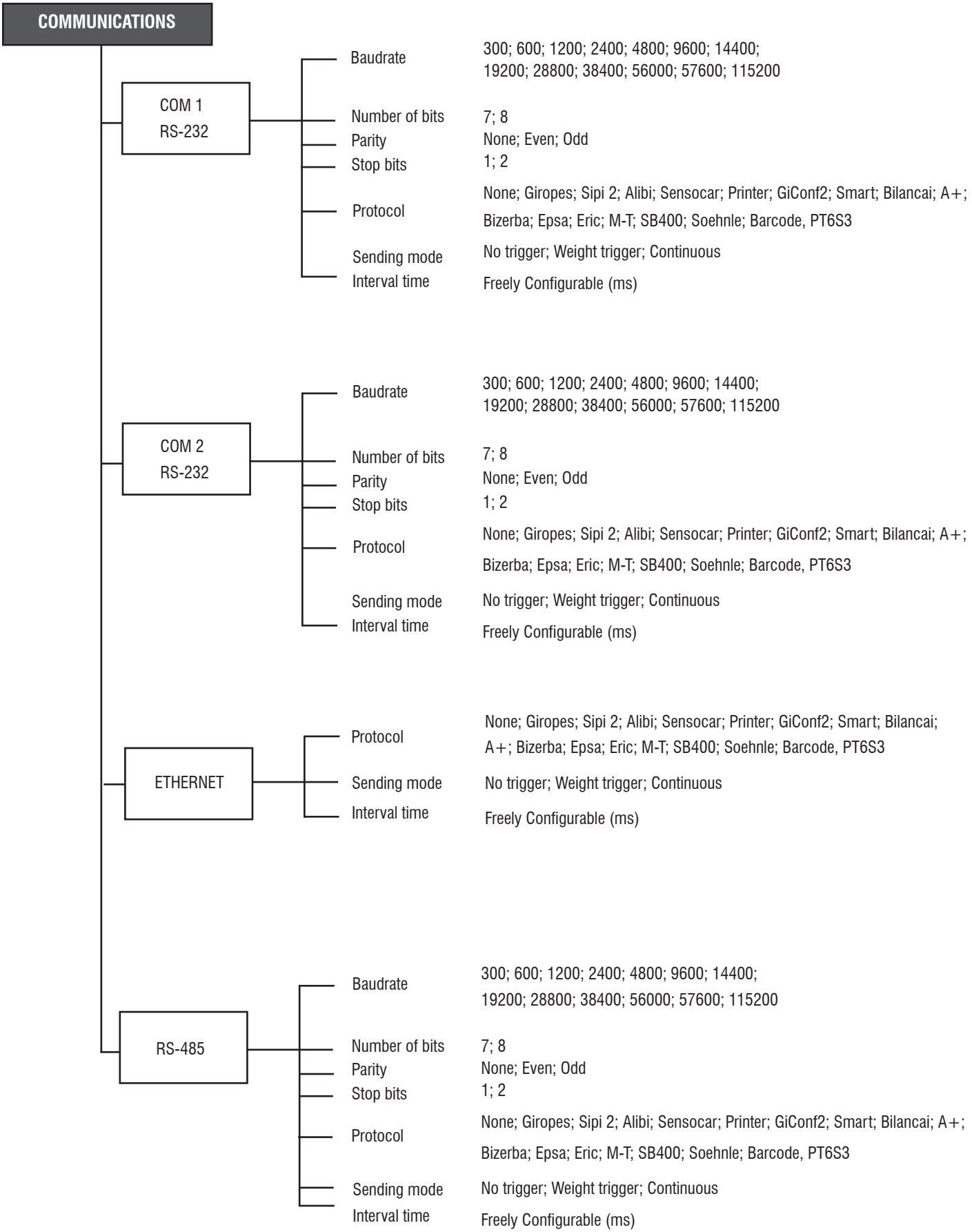
PLEASE NOTE:

It is possible to change the Information of the files at any time, BUT a Product OR Client must always be active.

3. MENU STRUCTURE



3.1 MENU


COMMUNICATIONS
COM 1
RS-232
Baudrate
300; 600; 1200; 2400; 4800; 9600; 14400;
19200; 28800; 38400; 56000; 57600; 115200
Number of bits
7; 8
Parity
None; Even; Odd
Stop bits
1; 2
Protocol
None; Giropes; Sipi 2; Alibi; Sensocar; Printer; GiConf2; Smart; Bilancai; A+;
Bizerba; Epsa; Eric; M-T; SB400; Soehnle; Barcode, PT6S3
Sending mode
No trigger; Weight trigger; Continuous
Interval time
Freely Configurable (ms)
COM 2
RS-232
Baudrate
300; 600; 1200; 2400; 4800; 9600; 14400;
19200; 28800; 38400; 56000; 57600; 115200
Number of bits
7; 8
Parity
None; Even; Odd
Stop bits
1; 2
Protocol
None; Giropes; Sipi 2; Alibi; Sensocar; Printer; GiConf2; Smart; Bilancai; A+;
Bizerba; Epsa; Eric; M-T; SB400; Soehnle; Barcode, PT6S3
Sending mode
No trigger; Weight trigger; Continuous
Interval time
Freely Configurable (ms)
ETHERNET
Protocol
None; Giropes; Sipi 2; Alibi; Sensocar; Printer; GiConf2; Smart; Bilancai;
A+; Bizerba; Epsa; Eric; M-T; SB400; Soehnle; Barcode, PT6S3
Sending mode
No trigger; Weight trigger; Continuous
Interval time
Freely Configurable (ms)
RS-485
Baudrate
300; 600; 1200; 2400; 4800; 9600; 14400;
19200; 28800; 38400; 56000; 57600; 115200
Number of bits
7; 8
Parity
None; Even; Odd
Stop bits
1; 2
Protocol
None; Giropes; Sipi 2; Alibi; Sensocar; Printer; GiConf2; Smart; Bilancai; A+;
Bizerba; Epsa; Eric; M-T; SB400; Soehnle; Barcode, PT6S3
Sending mode
No trigger; Weight trigger; Continuous
Interval time
Freely Configurable (ms)

SECURITY

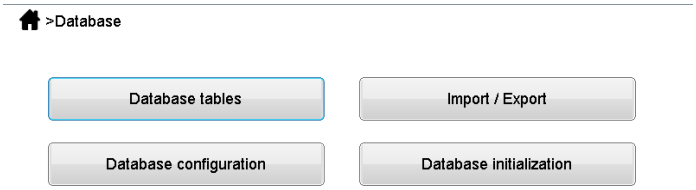
Inside the menu are 2 sub-menus: User Password and Default parameters:

- **User Password:** Inside here you can change the Password for the saved menus.
- **Default parameters:** It is restoring to Factory settings, except the Database, Ticket-number and the weighing parameters.

PLEASE NOTE:

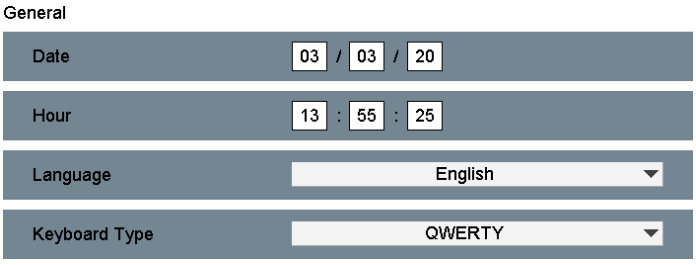
For access to the menu you need to insert a Password, by default 0000

DATABASE



In the Database you can modify and manage the different Code-files and weighings.(More in point 3.2)

GENERAL



When access to this menu, you can modify the Date and Time as well as the Language and the Keyboard Type.

- **Languages available:** Spanish; English; French; Italian; Portuguese and German
- **Keyboards available:** QWERTZ ; QWERTY and AZERTY

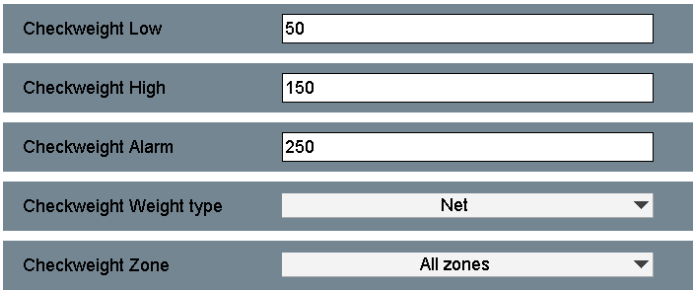
FUNCTIONALITY

In the functionality menu you have access to following working configurations:

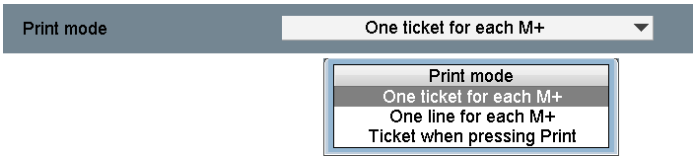
Tare-setting, Checkweigher-settings, the Print-/Accumulation-settings, and special functions-settings

- You can decide to work with a **blocked** or **not blocked Tare** (By default this option is **not blocked**)
  Blocked Tare means, that the tare stays active even the Brut weight is 0.

- **You can modify the Checkweigher-settings** (Explained in point 2)



- **Available Print modes:**

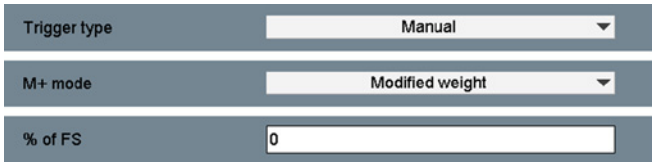


- Ticket each **M+** -> this means that every time you press **M+**; Print or **MR** a ticket will be printed (if there is a printer connected)

- Line each **M+** -> this means that the first time you press **M+** it is starting a new ticket, after this every **M+** is only printing a new line on this ticket. When finish the accumulation with Print this will close the ticket.

- Ticket when press print -> this means that when press **M+** the Accumulation will be counted in the background, and just when press **Print** it will printout the whole accumulation ticket.

- **Available Trigger type:**
  Manual; Zero step; Stable; Unload; None



When use the trigger Manual you can choose between Mode **Zero step**,or **modified weight**. This means which change of weight it needs, to be able to store a new weight.

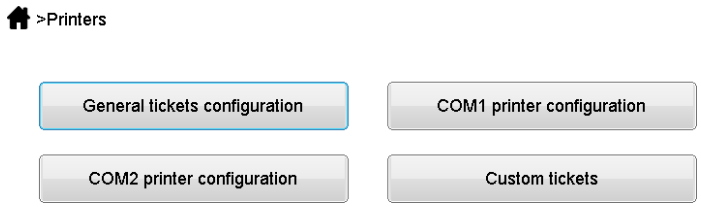
The **% of FS** in this case means that it will need the value in % of the max capacity of the scale.

For example: the max capacity is 10Kg and the value set is 10% of FS it will need a change of 1Kg (10% of 10Kg) **around** the actual weight, it counts the half in positive and the other half in negative. So it will need 500g change in one direction to be able to store a new weight.

- **Full-empty function:**

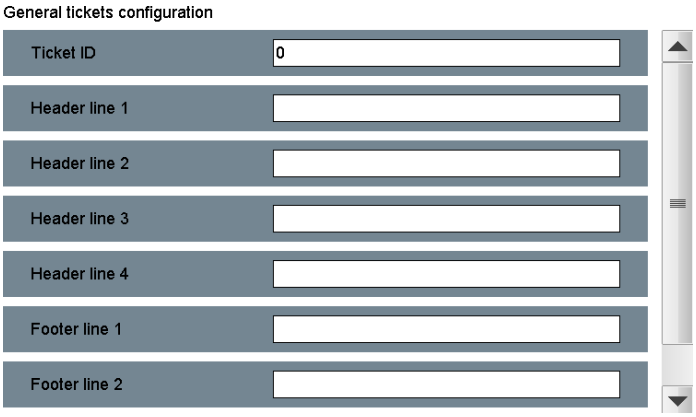
This function is made, to be able to perform an automatic tare without press the tare-button. For example if you have a filled box, which you want to know the Net-weight of the filling.
At first, place the filled box on the plate and you will see the complete gross weight. For example 1,500kg.
Press **M+** and the indicator will ask if you want to enter a Tare. Empty the box, and place the empty box back on the pan. Validate and the weight will be stored. For example if the empty box is 0.250kg, this will be stored as the Tara weight.

PRINTERS



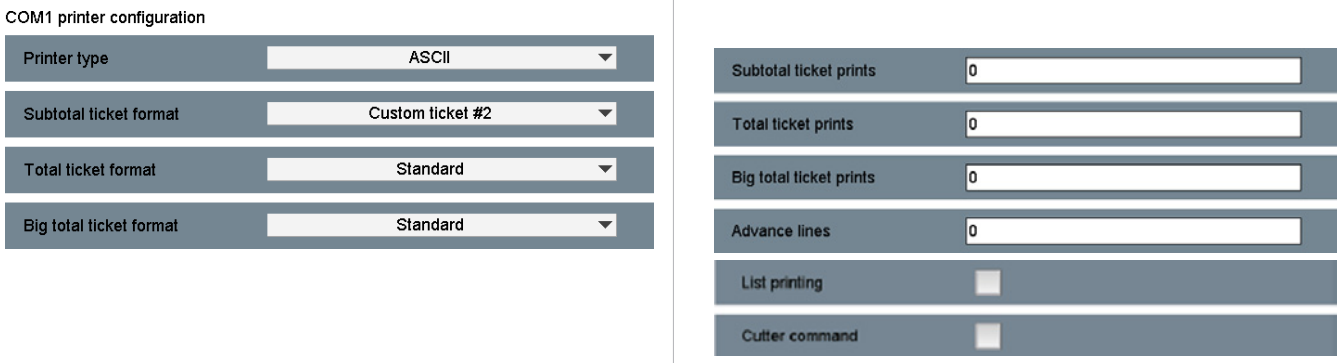
Here you have access to the general ticket configuration and also to the detailed configuration of each Com Port.

- **General tickets configuration**



Here you can set the Ticket-ID (ticket number) and the Header / Footer lines of the default-ticket.

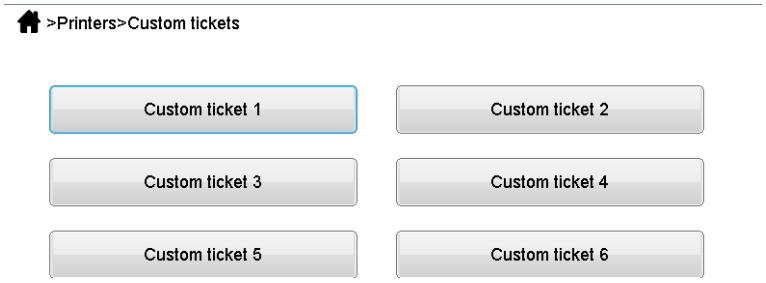
Printer configuration



In the different Port Com are several sub menus, them are even on both Com-Ports.

Here you can set the Printer type (Custom plus, Ascll, ESC/POS) You can configure which Format is used for each Printout, the number of ticket-copies and Advanced lines. Also if this Com-port is used for print lists and if a cutter is used or not.

CUSTOM TICKETS



It is possible to customize the ticket formats, explained in point 9.

ADDITIONAL

Inside this menu you can check and delete the stored Alibi-weighings. (when Alibi-Memory is plugged)

WEIGHING

PLEASE NOTE:

For access to the menu you need to insert a Password, by default 0000

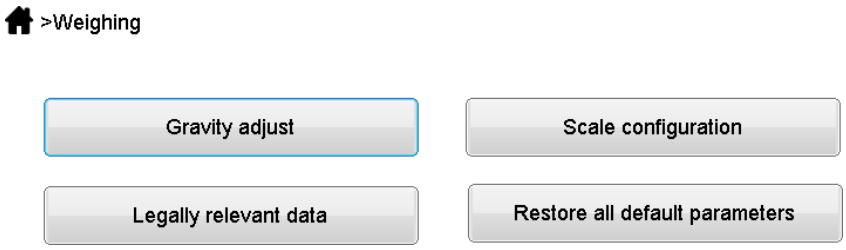
When you access to this Menu, you have only access to the **non-metrological**. (Cal_close)

To have full access to **All metrological** Parts, you need to press the Cal_switch. (Cal_open)

- **Cal_close**:

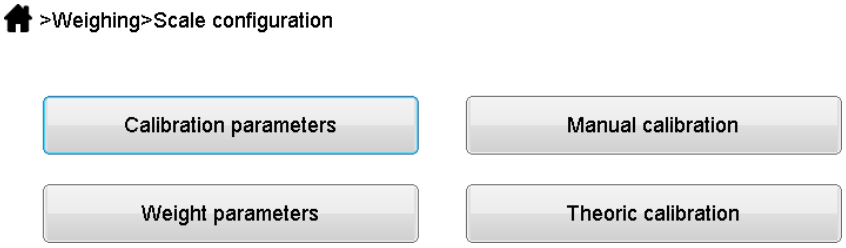
You only have access to the Sub-menu **Legally relevant data**. Inside this Menu are different Software-information about the device.

Cal_open:



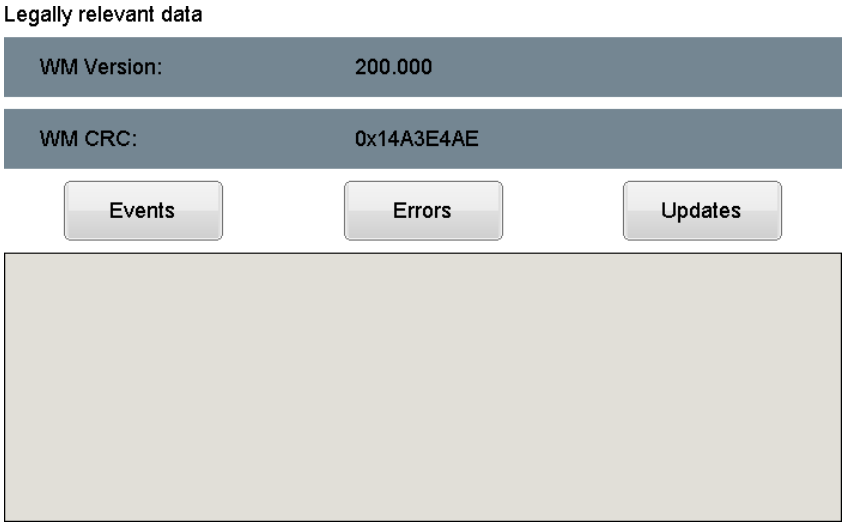
You have access to all Sub-menus included the Calibration.

Scales configuration:



Inside this menu, you will find all the calibration settings and metrological settings. (explained in the next point)

Legally relevant data:



Inside this menu you can find all legally relevant data, such as WM-version, Events, Errors and Updates.

Restore all default parameters:

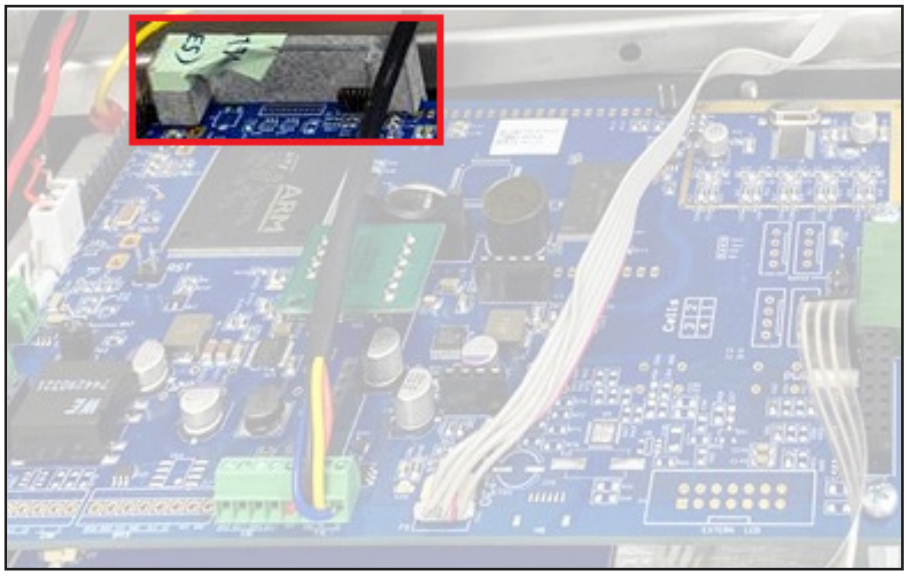
with this setting you restore **All parameters** back to fabric, included the Calibration.

(except the Database and Ticket-number)

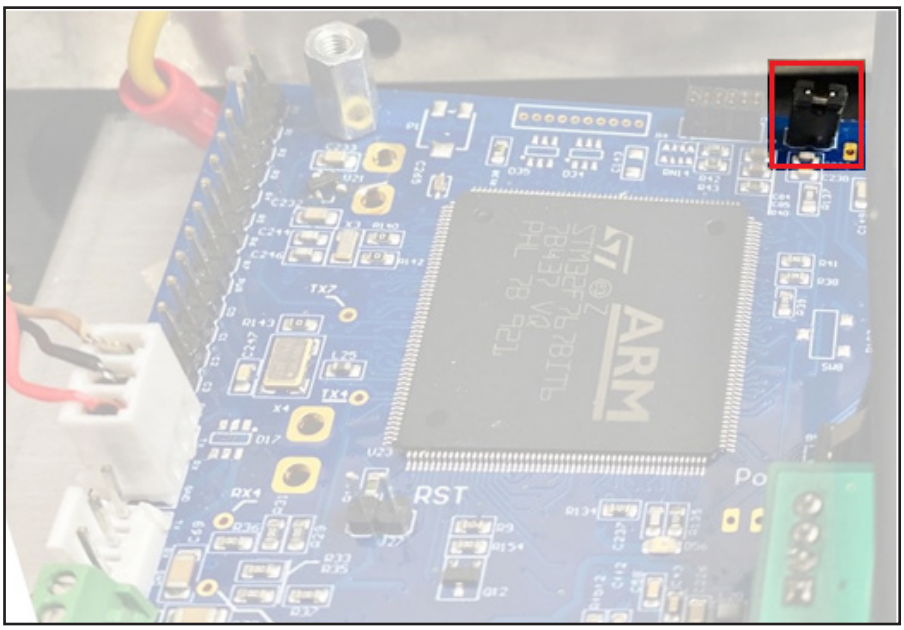
PLEASE NOTE:

For access to this menu you need to remove the calibration-jumper

For be able to do this, you have to open the case of the device. Once you did this, you have to remove the sealed Cover from the Jumper.



Now lift the Calibration-jumper and place it again.



NOTE:

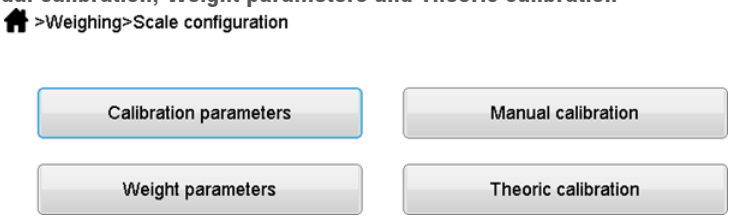
You have to be in the Weight-window when remove the Jumper, otherwise it will not have any effect

To access to the metrological Part you have to access to the Main-menu and choose the menu **Weighing**.

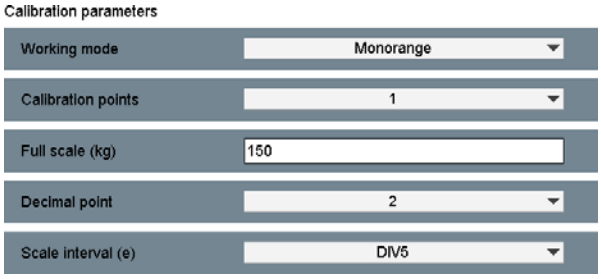
A password is required to access this menu, by Default 0000.

Inside the menu, choose **Scale configuration**. Here you will find 4 Sub-menus:

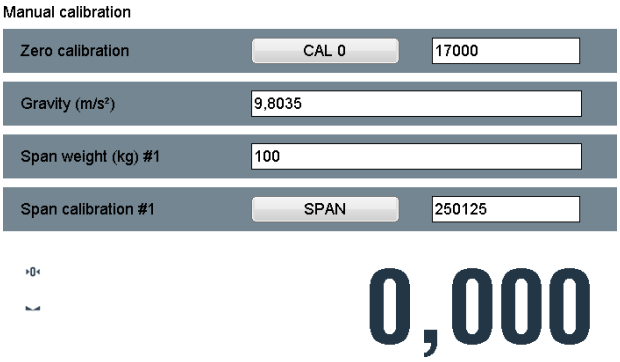
Calibration parameters; Manual calibration; Weight parameters and Theoric calibration



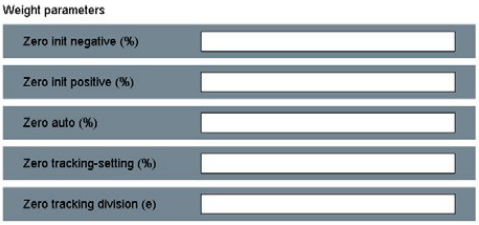
- **Calibration parameters:** Here you can set the parameters for the calibration of your scale.

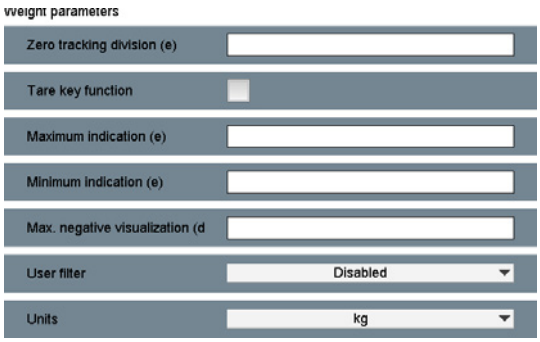


- **Manual calibration:** Here you carry out the calibration.

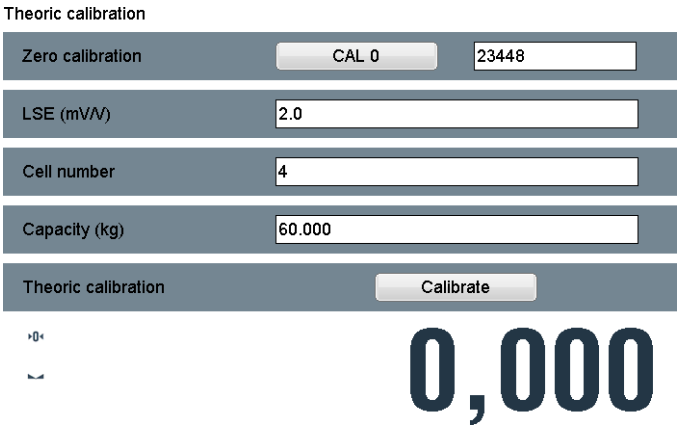


- **Weight parameters:** These are the metrological Settings of the Indicator





- **Theoric calibration:** If the reference weight is not available, you can perform a theoretical calibration by using the capacity and sensitivity values (mV/V) of the load cells used.



DIAGNOSTIC

Inside this menu you can see the mV, and also the internal counts of the Load cell. In case of an error of the scale you can check here if theLoad cell is working properly.

ABOUT THE DEVICE

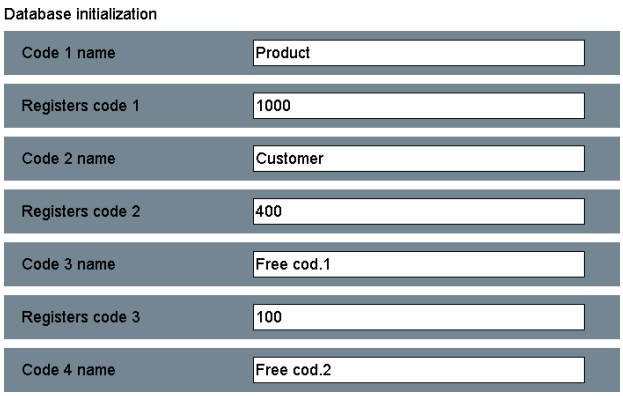
Here you can see the different Information about the Device.

3.2 DATABASE

In the Database you can modify and manage the different Code-files and weighings. The Database menu has 4 Sub-menus:

Database initialization; Database configuration; Database tables and Import / Export

- **Database initialization :**



In this point, you can modify and configure the different tables of the indicator.You also can modify the names of all Tables. The Indicator has 4 freely configurable Tables with a total of 1600 registers. Additionally there are 300 registers for Tares (TLU) You also can configure the value of registers. Not used registers are added to the weight-register which has a maximum of 2700.

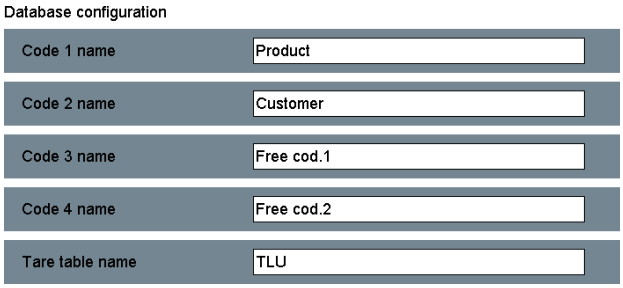
With the Button  you reset the Database back to default.

The 1600 registers of the Database-tables are divided as follows (default names): **Product** (1000); **Costumer** (400); **Free cod.1** (100); **Free cod.2** (100)

PLEASE NOTE :

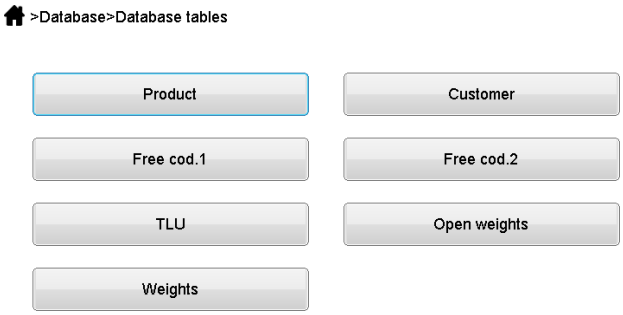
When save the changes, it will delete the Database including the Weight-tables

- **Database configuration:**



In this point, you can modify the names of the different tables. Without resetting the Database.

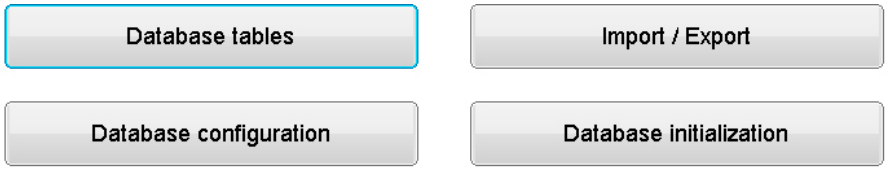
- **Database tables:**



Here you can check and modify the different Database-tables, including the TLU and Weight-tables. If you want to input a new file, you must do it like in the following example.

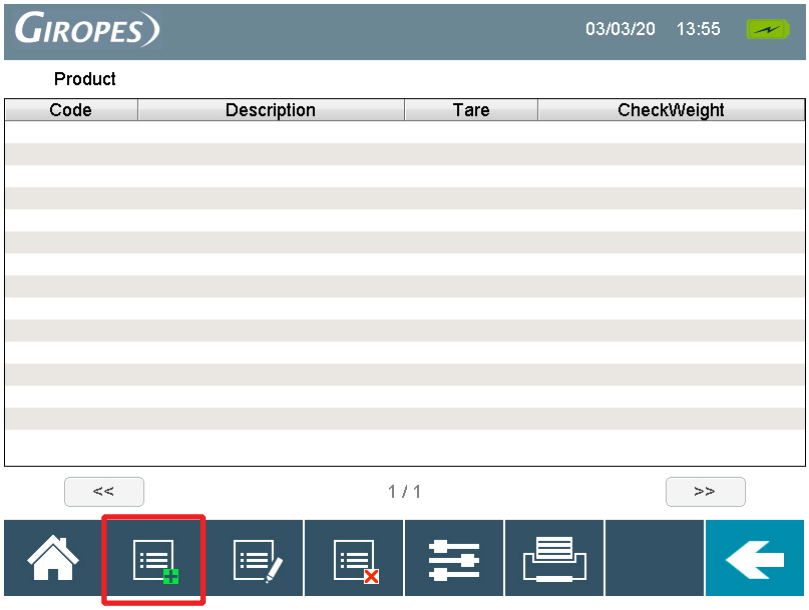
At first you have to access to the Main-menu by press 

Choose the Menu-point "**Database**" and you will find following screen:

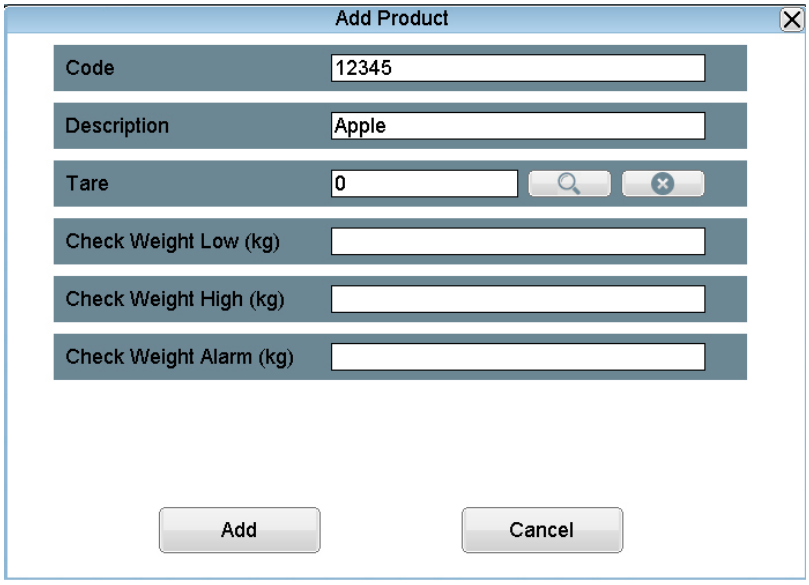


Access to the point **Database tables** and choose the file you want to modify/create, for example **Product**.

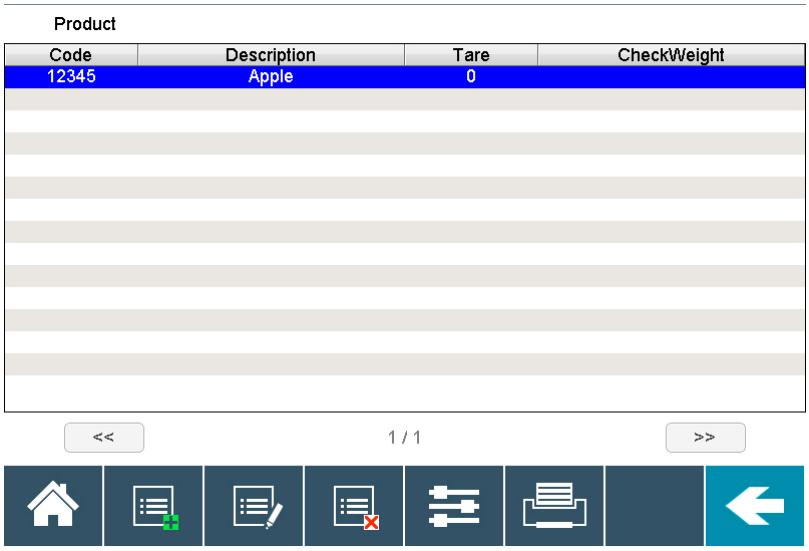
Press the Button like in the following example to create a new Product



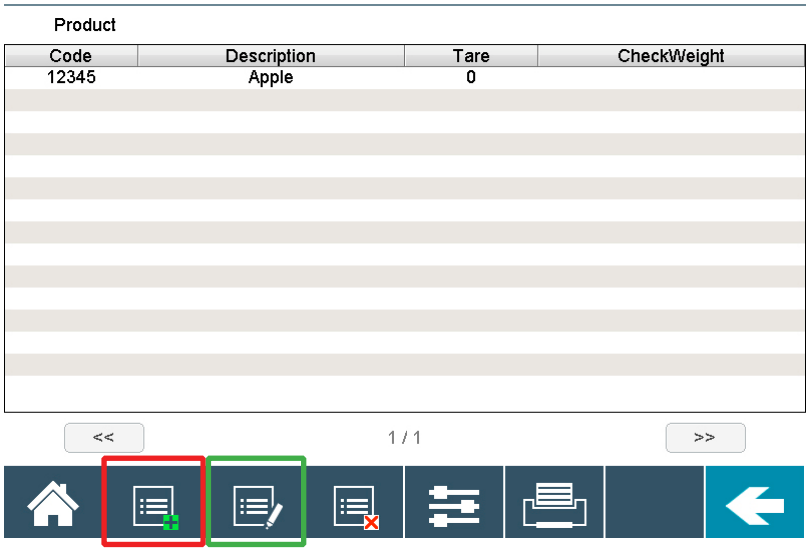
Now you can input the Code (for example Barcode); Description; Tare and the Checkweigher-values. After you input the values, press Add for save the Product.



After you press Add, the Product appear in the list, and also can be chosen in the Weight-window.



To modify or delete a **Product** in the list you have to press the following button: (Modify **Red**, Delete **Green**)

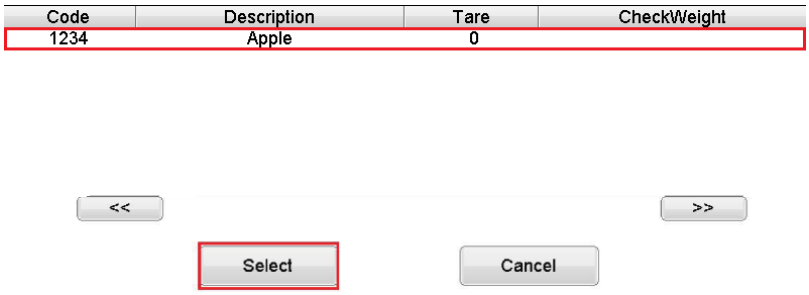


After you input the File in the List, you can choose and activate it in 2 Ways.

You can input the Code manually in the according field, for example the Product.

And also you can press the desired field to open the List of stored Files, for example Product.

Select the Product you want to use and validate.



- **Import / Export:**

It is possible to import and export information via USB to a PC.

Export:

You can export the Information about the Database and Weighings to the USB. It will be stored in an Excel-file.

You can choose the Delimiter between Coma and Semicolon.

Import:

On your PC you can modify/delete or add Data, for example new products for the Database, safe it on the USB and import it to the Indicator..

Key	Function
1	Select all
2	Unselect all
3	Export tables
4	Import tables

WARNING:

AFTER A WHILE OF WORK, IF A WEIGH CANNOT BE PRINTED, IT IS BECAUSE THE DATABASE IS FULL. IT IS NECESSARY TO CONNECT THE USB, DOWNLOAD THE WEIGHS CARRIED OUT AND DELETE THE HEAVY MEMORY OF THE DISPLAY TO CONTINUE WORKING.

4. ERROR MESSAGES

The device shows various error messages in the screen:

Error Messages	Explication
--ol--	Overload, remove the weight above the platform. If it is empty and continues to display, check the platform and wiring.
--ul--	The current weight value is less than the calibration zero. Check platform and wiring.
--0 err--	The team cannot do the initial zero. Make sure the tray is empty and the connections are correct. Check platform and cable.

5. CONFIGURATION OF PERSONALIZED TICKETS

Request	DA1 / DA2
Description	Allows to display the date. In the context of applications it allows specifying a 1st date. "Input date: 20/02/2020 12:18:00"
Minimal arguments	0
Maximal arguments	3
1- Format	0 -> « Label » « Date » « Time » 1 -> « Date » « Time » 2-> « Label » « Time » 3 -> « Date 4 -> « Label » « Time » 5 -> « Time »
2- Length	Length of the field "Date" (always 0)
3- Alignment	Alignment of the field "Date" (R, L, C, J)
Example	[DAx,0,0,L]

Request TIC	TIC
Description	Ticket number
Minimal arguments	0
Maximal arguments	3
1- Format	0 -> « Label » « Ticket » 1 -> « Ticket »
2- Length	Length of the field "Ticket" (always 0)
3- Alignment	Alignment of the field "Ticket" (R, L, C, J)
Example	[TIC,0,0,L]

Request	**WE**
Description	Display the weight of one Chanel
Minimal arguments	1
Maximal arguments	4
1- Chanel	0 -> Chanel 1 1 -> Chanel 2 2 -> Chanel 3 3 -> Chanel 4
2- Format	0 -> « Label » « Gross weight » 1 -> « Label » « Tare weight » 2 -> « Label » « Net weight » 3 -> « Gross weight » 4 -> « Tare weight » 5 -> « Net weight»
3- Length	Length of the field “Weight” (always 0)
4- Alignment	Alignment of the field “Weight” (R, L, C, J)
Example	[WE,0,0,0,R]

Request	**ACC**
Description	Display the accumulated Weigh
Minimal arguments	0
Maximal arguments	3
1- Format	0 -> « Label » « Gross weight » 1 -> « Label » « Tare weight » 2 -> « Label » « Net weight » 3 -> « Label » « Gross weight » « Tare weight » « Net weight »
2- Length	Length of the field “Weight” (always 0)
3- Alignment	Alignment of the field “Weight” (R, L, C, J)
Example	[ACC,0,0,R]

Request	**AMW**
Description	Number of accumulated Weights
Minimal arguments	0
Maximal arguments	3
1- Format	0 -> « Label » « Number of Weights » 1 -> « Number of Weights »
2- Length	Length of the field “Weight” (always 0)
3- Alignment	Alignment of the field “Weight” (R, L, C, J)
Example	[AMW,0,0,L]

Request	**DB**
Description	Display the information of Database
Minimal arguments	1
Maximal arguments	4
1- ID Table	0 ->Table 1 1 ->Table 2 ...
2- Format	0 -> « Table name » « Code » « Description » 1 -> « Table name » « Code » 2 -> « Table name » « Description » 3 -> « Table name » 4 -> « Code » 5 -> « Description »
3- Length	Length of the field “Code” (always 0)
4 - Alignment	Alignment of the field “Code” (R, L, C, J)
Example	[DB,0,0,0,L]

Request	**DS1 / DS2**
Description	DSD / Alibi Memory
Minimal arguments	0
Maximal arguments	3
1- Format	0-> « Label » « DSD » 1 -> « DSD »
2- Length	Length of the field “DSD” (always 0)
3- Alignment	Alignment of the field “DSD” (R, L, C, J)
Example	[DSxB,0,0,L]

Request	**TXT**
Description	Texts to be translated
Minimal arguments	1
Maximal arguments	3
1- Format	0 -> List 1 -> Code 2 -> Description 3 -> Gross 4 -> Tare 5 -> Net 6 -> Open Weights 7 -> Weights 8 -> Date 9 -> DSD ID 10 -> Ticket
2- Length	Length of the field (always 0)
3- Alignment	Alignment of the field “Code” (R, L, C, J)
Example	[TXT,0,0,L]

Request	**X**
Description	It allows the entry of hexadecimal or decimal values, useful for specific printer commands. To represent a hexadecimal value, add the prefix 0x. Otherwise it will be interpreted, if possible, as a decimal value.
Minimal arguments	0
Maximal arguments	10
Example	<X,0x1B,23,0x12> 0x1B is a hexadecimal value 23 is a decimal value 0x12 is a hexadecimal value

Request	**HT**
Description	Allows the entry of the character ‘\t’ (horitzontal tab)
Example	“FOO<HT>BAR” Equal to “FOO\tBAR”

Request	**LF**
Description	Allows the entry of the character ‘\n’ (line feed)
Example	“FOO<LF>BAR” Equal to “FOO\nBAR”

Request	**VT**
Description	Allows the entry of the character vertical tab (0x0B)
Example	“FOO<VT>BAR” Equal to “FOO\x0BBAR”

Request	**FF**
Description	Allows the entry of the character ‘\f’ (form feed)
Example	“FOO<FF>BAR” Equal to “FOO\fBAR”

Request	**CR**
Description	Allows the entry of the character ‘\r’ (carriage return)
Example	“FOO<CR>BAR” Equal to “FOO\rBAR”

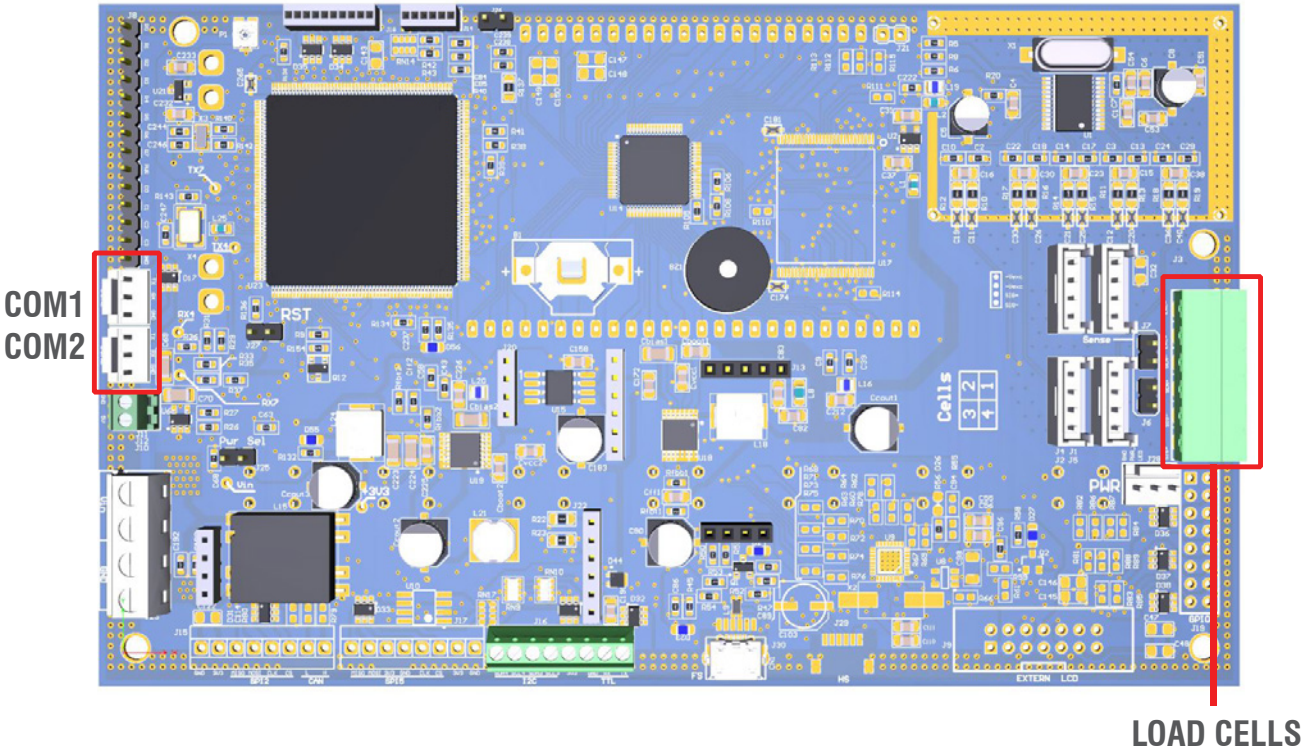
Request	**R**
Description	Allows repetition of a character n times
Minimal arguments	0
Maximal arguments	2
1- Character 2- Number of repetitions	Character to repeat Number of repetitions of the desired character
Example	<R, ,0>

Request	**H1**
Description	Double width and height typology
Example	“<H1>DATA” Equal to DATA

Request	**H2**
Description	Double height typology
Example	“<H2>DATA” Equal to DATA

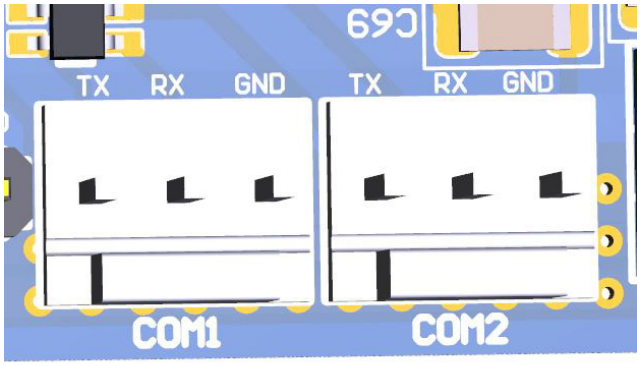
Request	H3
Description	Restores normal typology size
Example	“<H3>”

6. CONNECTIONS



LOADCELL CONNECTION

COM-PORT CONNECTION



7. DSD-MEMORY

It is possible to increase the Memory of the weight indicator with the additional plate that performs the function of FISCAL MEMORY; this consists in archiving all the weight values transmitted to a computer for a subsequent elaboration or integration of the data transmitted by the serial channel COM / ETHERNET.

Each archived value is associated with an ID code. The memorized value can be consulted on the display of the indicator using the ID. (as a control with respect to the data printed by the PC).

The ID has the following format:

<Unique code number>, <weight number>

Unique code number: 5-digit number ranging from 0 to 99,999, indicates the complete unique code number of the dsd memory.

The dsd memory can store a maximum of 400,000 weights, (once this value is reached) the weighing number starts again by 00000 and the unique code number is increased by one.

The relative weight of an ID can be verified only if:
it has a unique code number equal to the current one in the dsd memory and a weighing number less or equal to the last value received with the “PID” command.

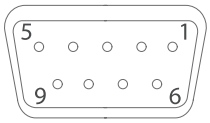
8. REMOVAL OF ELECTRONIC EQUIPMENT

For the European Union customers:
All the products that arrived at the end of their respective circle of life, have to be returned to the constructor in order to be recycled.
For information on refund procedures contact the reseller or the builder.

9. WARRANTY

This device is guaranteed against all manufacturing and material defects, for a period of 1 year from the date of delivery. During this period, GIROPÈS will take over the repair of the device.
This warranty does not include damages caused by improper use or overloading.
The guarantee does not cover the shipping costs (postage) necessary for the repair of the device.

10. ANNEX



FUNCTION OF PINS OF THE LOADCELL					
n.º pin	**Description**	**Function**	**n.º pin**	**Description**	**Function**
1	-EXC	- Excitatio	**4**	+SENSE	+ Sign SENS
2	-SENSE	- Sign SENS	**5**	+EXC	+ Excitatio
3	GND_A	Analog mass			
7	- OUT	- Sign load cell			
8	+ OUT	+ Sign load cell			

INTERFACE SERIE RS 232		
n.º pin	**Description**	**Direction**
2	TX (RS232c - transmitter)	Exit
3	RX (RS232c - receiver)	Entrance
5	GND (signal common)	

GIROPES

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