GI620 COMPACT
USER MANUAL

EN

INDUSTRIAL WEIGHING

INDICATOR WITH WHEEL-WEIGHING FUNCTION

V.1.1

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1. INTRODUCTION

- This device is designed to work with a number of platforms, equal to the number of wheels/ support points of the vehicle to be weighed.
- Place the platforms on a completely flat and level surface.
- Carry out the weighing of the vehicle placed with all its wheels/support points on top of the platforms.
- To be able to work with all the functionalities (weighing and printing, calculate the percentage of each channel, calculate the barycenter of the load and graphic representation of the barycenter), it can have a maximum of one platform for each active channel. If the way of working is going to be basic (only weighing and printing), it can have more than one platform for each active channel (respecting the technical specifications)
- Different codes can be associated to the weights. There are four different register of 400 codes each, the plate and 3 more register.
- The USB port is optional. It is used for uploading/downloading register and weights (weights can only be downloaded).

1.1 DISPLAY

The Gi620 indicator has an LCD display with 6 digits of 27mm, with 14 segments per digit.

1.2 PLATFORM MANAGEMENT

- It is possible to visualize the sum of the active platforms or see the weight of one at a time.
- Print the displayed weight.

1.3 FILE MANAGEMENT

It is possible to manage 4 files of **400 codes** each (Plate and 3 free Register)
This files are used for the management of the codes to associate to the weighings.

1.4 WEIGHT MANAGEMENT

It is possible to store a maximum of **1000 weighs** with warning of almost full memory (80%).

1.5 FUNCTIONS

The functions are as follows:
- Zero setting
- Tara, Manual Tara, Cancel Tara, actívate or deactivate the Tara key.
- TOTAL Printing
- Calculation of the percentage load.
- Calculation of the Barycenter of the load
- Graphic representation of the Barycenter
- Printing of totals of weights (lists)

1.6 PRINTERS

The peripherals enabled to make the prints are the following:
- Ticket printer type 40 columns ESC/POS **(external)**

1.7 PC MANAGEMENT

- Management and configuration (setup) via PC.
    - GiManager (Eth)
    - Upload/download files and weighings via **USB (depending on model)** in format *.csv (Format of USB-stick must be FAT32)
- Continuous data transmission.
- Connected to PC or repeater via **COM1** (RS-232).

1.8 TICKET FORMAT

It is possible to modify and select the printed fields related to the Weighing tickets using the GiManager software

1.9 OPTIONAL BATTERY POWER

The device has an internal optional battery that allows operation also during a drop in mains power.
Battery life (fully charged) is approx. 360min.

2. GENERAL CHARACTERISTICS

POWER SUPPLY	110-240V AC 50/60Hz or with internal rechargeable lithium-ion battery optional
OPERATING TEMPERATURE	-10°C to +40°C
DISPLAY	LCD DISPLAY of 6 digits, h 27mm. and 14 segments
SIGNALS	Multiple on-screen status indicators
KEYBOARD	ALPHANUMERIC WATERPROOF KEYBOARD with 12 keys and 7 operation keys.
INTEGRATED CALENDAR CLOCK	Standard
TARE FUNCTION	Subtraction possible. If it has been activated, it is subtracted to the current value.
DISCHARGED BATTERY WARNING	Indicated by symbol on the display.
MAX RECHARGE TIME	Approx. 5 hours
POWER CELLS	5V DC (max. 12 cells of 350 Ohm or 34 cells of 1000 Ohm)
CONNECTION LOAD CELLS	4 cables plus SENSE
OUTPUT COMMUNICATIONS	**1 input /output RS232(COM1)** configurable for connect with PC/PLC or a repeater. **1 USB input/output (depending on model).** For the transfer of the weighing table and Database files.
ALIBI/DSD MEMORY (OPTIONAL)	for storage with unique identifier of the last 400,000 weighings made.

POWERSUPPLY AND BATTERY

The GI6xx devices are powered with a mains voltage of 100-240V AC. For the connection with the power supply, safety regulations must be respected, including the use of a line “free” of interference caused by other electronic devices.

Optional Battery life: Approx. 6 hours with the device connected to 1 single cell and printing tickets continuously.
Optional Battery recharge: connect to the network for approx. 5 hours.

Note: At the first installation of the device, we recommend to fully charge the battery.

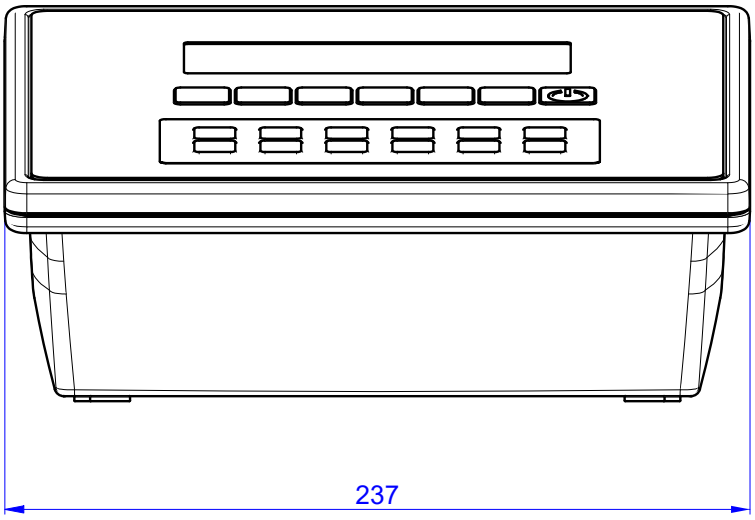
OPTIONAL BATTERY FEATURES

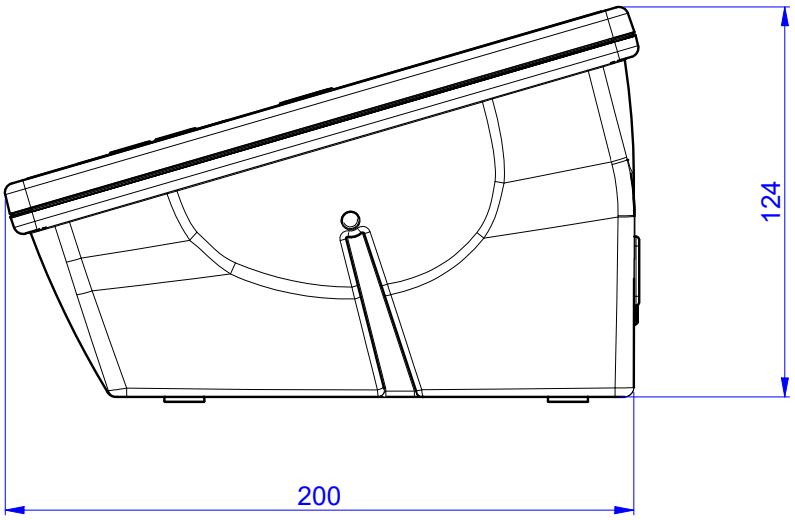
Material: Lithium ion
Power: 2600mAh
Voltage: 7.4V

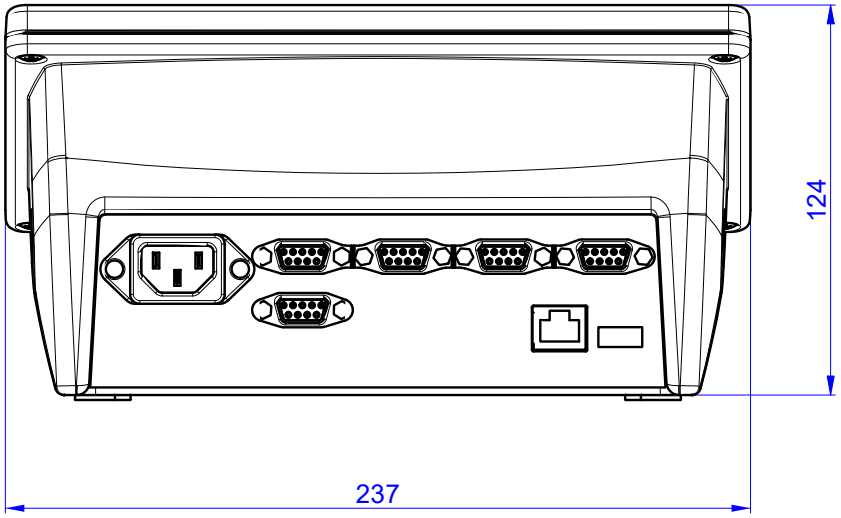
THE OPTIONAL BATTERY HAS TO BE REPLACED BY THE MANUFACTURER.

Do not connect other appliances to the same powersource.
Do not step on or crush the power cord.
TO TURN ON the instrument press the ON/OFF button, you will see that the LED indicator of the power button lights up.

DIMENSIONS

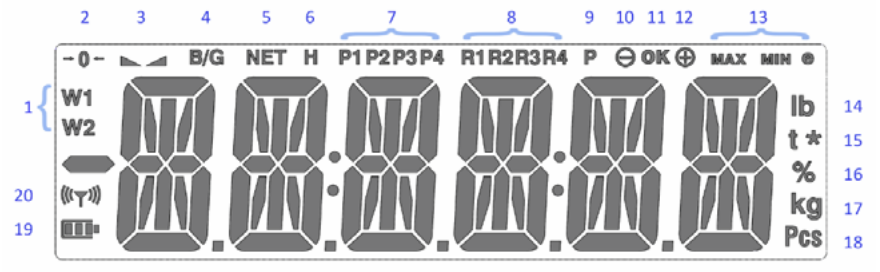




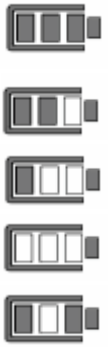


3. DISPLAY SYMBOLS

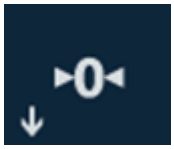
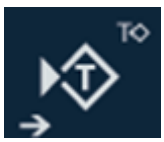
The LCD display has various symbols that indicates the operating status of the indicator. The function of each symbol is described below.



NUMBER	SYMBOL	FUNCTION
1	W1 W2	Is showing the weighing range
2	→0←	Indicates that the weight detected is within the range of zero calibration, included in the range –5% FS and +15 FS.
3		Indicates that the weight is stable.
4	B/G	Indicates that the value displayed is a gross weight.
5	NET	Indicates that the value displayed is a net weight.
6	H	Not used.
7	P1 P2 P3 P4	Indicates the active channel or channels in use.
8	R1 R2 R3 R4	Indicates the active record or records in use.
9	P	Indicates that a memorized tare, previously stored in the database, has been activated, (F50).
10	⊖	Not used.
11	OK	Indicates that connected USB stick has been detected.
12	⊕	Not used.
13	MAX MIN e	During the visualization of the metric information: **"MAX"** shows the capacity of the indicated platform; **"MIN"** shows the minimum weighing of the indicated platform; **"e"** shows the step of the indicated platform.

14	lb	Indicates weighing unit pounds
15	t	Indicates that a tare is activated
16	%	Not used
17	kg	Indicates weighing unit kg.
18	Pcs	Not used
19		Indicates the optional battery charge level: - 3 brands, full battery. - 2 brands, medium battery. - 1 brand, low battery. - 0 marks, very low battery, immediate shutdown if not plugged in. - When charging battery the indication flashes
20		Not used

4. KEYS FUNCTION

KEYPAD GI620	DESCRIPTION OF THE EXECUTABLE FUNCTION
	**Power key.** Turn the indicator on and off
	**Short press:** Access to the user menu **Long press:** Access to the technical menu **In the edit menus:** Increase the digit in editable Menu
	**Short press:** Performs manual zero if the value displayed is within the margins of this function **In the edit menus:** Decrease the digit in editable Menu
	**Short press:** Changes the display from gross to net and vice versa if a tare has been performed. **Long press:** Input a manual tare. **In the edit menus:** Move editable digit to the left.
	**Short press:** Performs the tare function, subtracting the current weight. **Long press:** Deactivate the tare that is active. **In the edit menus:** Move editable digit to the right.
	**Long press:** Reprint the last printed ticket. **In the edit menus: Short press:** Clears the value in editable menu. **Long press:** Returns to the previous menu.
	**Short press:** Print the ticket. **In the edit menus:** Save the changes made and return to the previous menu.

In the edit menus: In the numeric menus, directly enter the digit represented on the key. In alphanumeric menus, the letters or symbols described.

Pressing **F** change from letter to number and vice versa.

The left arrow serves to delete one by one the last digit in editing.

The key, pressed from the weighing mode can be F combined with two digits to have direct access to different functions or menus of the device.

In the weight-window, first press the F key followed by the two corresponding numbers in the table, entered one by one.

F10	Access the edit menu of the Plate register
F11	Access the activation menu of the Plate register
F12	Deactivate the currently active Plate register
F20	Access the edit menu of the Register 1
F21	Access the activation menu of the Register 1
F22	Deactivate the currently active Register 1
F30	Access the edit menu of the Register 2
F31	Access the activation menu of the Register 2
F32	Deactivate the currently active Register 2
F40	Access the edit menu of the Register 3
F41	Access the activation menu of the Register 3
F42	Deactivate the currently active Register 3
F50	Access the edit menu of memorized tares
F51	Access the activation menu of memorized tares
F52	Deactivate the currently active memorized tare
F70	Deletes the table of weighings performed
F71	Delete the Totals of the Plate register (TOTREG option) or delete the info of Plate register completely (ALLREG option)
F72	Delete the Totals of the Register 1 (TOTREG option) or delete the info of Register 1 completely (ALLREG option)
F73	Delete the Totals of the Register 2 (TOTREG option) or delete the info of Register 2 completely (ALLREG option)
F74	Delete the Totals of the Register 3 (TOTREG option) or delete the info of Register 3 completely (ALLREG option)
F75	General delete. Eliminates the weighing table, as well as the Plate register and Register 1, 2 and 3
F76	Eliminate the table of memorized tares
F80	Sequential activation of records previously saved in memory. Plate register, Register 1, Register 2 and Register 3
F81	Sequential introduction of information (free, without previously storage in memory). Plate register, Register 1, Register 2 and Register 3

It is also possible to access functions directly by pressing the number keys on the keyboard.

0	Displays the sum of the active channels. By Default channel 1+2+3+4
1	Display channel 1
2	Display channel 2
3	Display channel 3
4	Display channel 4
5	**Short press:** Access to Coordinates-menu **Long press:** Access to Barycenter-menu
6	Sequential activation of registers previously saved in memory: Plate register, Register 1, Register 2 and Register 3 (Same as F80)
7	Sequential introduction of information (free, without previously storage in memory). Plate register, Register 1, Register 2 and Register 3 (Same as F81)
8	Direct access to the time editing menu
9	Direct access to the date editing menu

5. BASIC CONFIGURATIONS

5.1 SETUP SCALE

The indicator has two clearly differentiated menus, the USER and the TECHNICAL menu. Within the configuration menu we find the Metrological parameter (MET.CNF), which is protected by the CALIBRATION JUMPER or by a password depending on the working mode (OPEN or CLOSED calibration).

The device can be in OPEN CALIBRATION mode: in this case the user has access to **all the parameters** of the device. The metrological parameters are protected by the password.

The device can be in CLOSED CALIBRATION mode: in this case the user has access to **all the parameters** of the device **except the metrological parameters**.

5.2 PASSWORD

The password by default is 0000. This can be changed whenever desired inside the menu SECURI.

5.3 CLOSED CALIBRATION (RESTRICTED METROLOGICAL PARAMETERS)

In mode CALCLO, the Metrological parameter (MET.CNF) cannot be accessed.

Note: To access the restricted part of the device in **CLOSED CALIBRATION** mode, it is necessary, **while on the weighing screen,** to remove and put back the **calibration jumper**. In the GI620 device this is placed on the **CPU-board**.

5.4 USER MENU

Being in the weighing screen, press the key MENU MODE once, to access to the user menu. Use the arrow keys  to move through, as well to access and exit the menus. The user menu is detailed below:

SEL PT

PLTF 1	DISPLAYS PLATFORM 1
PLTF 2	DISPLAYS PLATFORM 2
PLTF 3	DISPLAYS PLATFORM 3
PLTF 4	DISPLAYS PLATFORM 4

SUM PT Displays the sum of platforms, whenever more than one is enabled. If there is only 1 platform enabled, it shows a message indicating that the sum is not possible.

ALIBI

IN ID 000000	ALIBI/DSD ID INPUT
INCODU 000000	INTRODUCTION OF ALIBI/DSD CODE

Once both values have been entered, and the optional ALIBI/DSD is plugged on the device, the data stored in the memory corresponding to the code entered is displayed.

BY 10 shows the tenth of the step (high resolution x10). Press MR ESC to exit high-resolution mode. In Closed Calibration mode its displayed for approx. 5s. The high resolution function is only displayed on single channels, never in the sum.

N TICK edition of the ticket number, only if the access is not locked (see technical manual)

LISTS

TOTALS	RESET N printing of the list of totals and don't erase the memory. RESET Y printing of the list of totals and erase the memory.

(This process only deletes the totals, to delete the weights, you have to access to the database)

EXPORT (in USB version) - downloads the weighing table in .csv format: By COM2 (capturing the file using RealTerm software) or by USB (if the optional USB is connected) with separation of columns by "," or ";". With the correct country separator, Excel opens ell csv in columns.

IMPORT - Allows to import the edited Register. (if the optional USB is connected)

DAT. BAS Fastacces to the database menu (see **Settings menu**).

BARYCE shows the barycenter position in X and Y coordinates if the coordinates are different than 0

5.5 SETTINGS MENU (UNRESTRICTED PARAMETERS)

The device allows you to modify a series of parameters that are in the setup menu **without knowing the password**.

To access this function, while on the weighing screen, press the key MODE for at least 3 seconds. Use the arrow keys to move, access and leave the menus 

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COMMS	COM1	NUMBER OF BYTES / PARITY / STOP BITS / BAUDRATE / PROTOCOL / SENDING MODE
	COM2	FUNCTIONLESS
	COM3	FUNCTIONLESS

The available protocols are: Giropes, Sipi 2, ALIBI, Sensocar, Printer, Giconf

PRNTER

	PRCOM1	COM1 Settings
		Model -> ASCII / PLUS1
		Ticket -> Default / Custom
WEI. TRG	Sending mode in which way the Weighings are stored: Manual / Stable / No	

REG.CNF

DATE	Setting of the system date
TIME	Setting of the system time
LANGGE	Setting of the system language (including the printouts): Spanish / English / French / Portuguese / Italian / German / Basque / Catalan / Galician

CONFIG

BACKLIGHT	Backlight settings: ON/OFF and default color settings	
BLO. TIC	blocks access to the edition of the ticket number (password is required to access)	
TYPE	Selection of the channel or channels to use	
	SINGLE	Only uses **1** channel
	MULTI	Uses **more than 1** channel
BATTER	Battery type installed: bat 7.4 / bat 11.1 / bat NO	
COORD	Menu for input coordinates of the platforms and activate/deactivate the % calculation	
	PLTF 1	Input the X and Y Coordinates for this Platform
	PLTF 2	Input the X and Y Coordinates for this Platform
	PLTF 3	Input the X and Y Coordinates for this Platform
	PLTF 4	Input the X and Y Coordinates for this Platform
	8 WEI	Activate or deactivate the % Calculation
BAR.CNF	Sequential activation of the Barycenter calculation and if the Barycenter is drawed on the printout.	

DAT.BAS -> Database

TABLES	Table of the registers in memory	
	REGIST	Edit, activate and deactivate the desired resgister
	DELETE	Delete data or register
	TARE.PR	Edit, activate and deactivate the pre-Tara register
BUF.INF	Select whether to display or not, and when to display full buffer information	
RG.NAME	Modify the name of the registers: Plate / Reg 1 / Reg 2 / Reg 3	
PF.NAME	Modify the name of the Platforms: PLTF 1, PLTF 2, PLTF 3, PLTF 4, 1+2, 3+4	

SECURI -> Menu for to change the password (by default 0000)

DIAGNS -> Diagnostic Menu

MV	Displays the signal received by the indicator in mV.
ICOUNT	Displays the signal received by the indicator in internal accounts.

ABOUT -> displays and prints the various device information

WEM		
	VERSIO	Displays the WEM version on the screen
	CRC	Displays the CRC value of the weigh module.
	LOG EV	Prints the event log
	ERREV	Prints the error log
	UPD EV	Prints the update log
VER	Displays and prints the different versions into which the firmware is divided to	
MET.INF	Displays the metrological information of the active channel or the sum of channels, depending on what is currently active	

FABRIC -> Set the device back to default settings

USER	Set the **none metrologic** Parameter back to default (Ticketformat, COM-settings etc.)
WEM	Set the **metrologic** Parameter back to default (requires the Password & only in **Cal_open**)

6. BASIC FUNCTIONS

The functions described below are those performed during the operation of the device, in normal weighing window.

6.1 ZEROING THE SCALE

The first step is to select the desired channel. To do this, press the key MENU MODE once and the SEL PT menu will appear. Select the desired platform with the arrow keys. Validate with PRINT.

Also is possible to press the keys 1, 2, 3, 4, or the key 0 to see the sum of channels.

Once the device shows the weight value of the desired platform/s, press the key →0← it assumes the function of zeroing the weight in the modality described below in reference to current regulations.

- The weight stable (indication of stable weight on);
- Weight value not less than -5% max. with respect to the zero calibration of the scale;
- Weight value not exceeding 15% of Max. with respect to the zero calibration of the scale.

The indication →0← indicates that the function has been performed.

6.2 ACQUISITION OF TARE

To perform a tare, press T. The indication t will turn on.

If its necessary to perform another tara, press the key T again.

To see the gross weight, press the key GROSS NET.

If press the key GROSS NET again, the net weight will be displayed again.

6.3 MANUAL TARE

The device allows to input a manual tare by pressing the key GROSS NET for approx. two seconds.

Introduce the desired Tare-value, by using the numeric keypad (or the Arrow keys), and press the key PRINT to confirm.

6.4 TARE FILES IN MEMORY

The device allows to introduce memorized tares. Access to the settings menu by pressing the key MENU MODE for approx. 2s. In the settings menu move through, with the arrow keys till DAT.BAS -> TABLES -> TARE.PR press PRINT to access.

In this menu there are 3 possible options:

- Edit/create a memorized tare
- Activate one of the memorized tares previously stored
- Deactivate the current active memorized tare

Use the arrow keys to move, access and leave the menus MENU MODE | →0← | GROSS NET | T.

The numeric keys 0 1 2 3 4 5 6 7 8 9 ⌫ F to modify or insert the tare value, and the key PRINT to validate each menu. You can also access the TARE.PR menu to edit by pressing **F+5+0**, activate a memorized tare with **F+5+1** or deactivate the current active memorized tare with **F+5+2.**

6.5 CANCELLATION OF THE ACTIVE TARE

To deactive the curent tare, press  for approx. 2s

6.7 DISABLE THE TARE KEY

It is possible, for convenience, to disable the function of the tare key. To deactivate the tare key, see the Technical manual.

6.8 REPRINT THE LAST TICKET

The device allows to reprint the last printed ticket. To do this, press the key  for approx. 3s

7. PERFORM A WEIGHING

List of operations to be carried out, to perform a weighing

1.First set the device, with which platforms it will work.

2.If necessary, press the key  to set the scale back to 0

3.Position the weight on the platform(s)

4.When the weight is stable and higher than the minimum weight, press the key  . The device will store the weight and print the ticket.

Note: It is also possible to perform the weighing automatically. For this, access to the Menu COMMS -> WEI.TRG and select STABLE.

Note: There is the possibility of relating plates and register with the weighing. **Before** performing point 3 of the procedure described above, press **F80** to sequentially select the previously stored plate and register, or press **F81** to sequentially enter the desired plate and register (without previously stored in memory). If one or more fields in the sequence are not needed, they can be left empty. In both of the cases, the validation of the field is done by pressing  .

Note: There is also the option to activate the plate and/or each register separately. Plate **F+1+1**, Register 1 **F+2+1**, Register 2 **F+3+1** and Register 3 **F+4+1.**

8. PRINTOUT

When the weight is stable and higher than the minimum weight, press the key PRINT.

The device will store the weight and print the ticket. According to which options are activated, following ticketformats will be printed:

```
------------------------------
2022/05/16          18:38:23
Pltf 1:                380kg
Percentage                16.7%
Coordinates         X=0.00m  Y=0.00m
Pltf 2:                370kg
Percentage                16.3%
Coordinates         X=0.00m  Y=2.00m
Pltf 3:                760kg
Percentage                33.5%
Coordinates         X=2.00m  Y=0.00m
Pltf 4:                760kg
Percentage                33.5%
Coordinates         X=2.00m  Y=2.00m
********************************
            TOTAL
********************************
     Gross    Tare    Net
     2250kg     0kg     2250kg
********************************
         BARYCENTER
********************************
Coordinates         X=1.33m  Y=0.99m
   1                              3


                    X


   2                              4
```

```
------------------------------
2022/05/16          18:35:53
Pltf 1:                380kg
Percentage                16.6%
Coordinates         X=0.00m  Y=0.00m
Pltf 2:                370kg
Percentage                16.2%
Coordinates         X=0.00m  Y=2.00m
Pltf 3:                770kg
Percentage                33.6%
Coordinates         X=2.00m  Y=0.00m
Pltf 4:                770kg
Percentage                33.6%
Coordinates         X=2.00m  Y=2.00m
********************************
            TOTAL
********************************
     Gross    Tare    Net
     2300kg     0kg     2300kg
********************************
         BARYCENTER
********************************
Coordinates         X=1.34m  Y=0.99m
```

```
------------------------------
2022/05/16          18:31:23
Pltf 1:                380kg
Percentage              16.6%
Pltf 2:                370kg
Percentage              16.2%
Pltf 3:                770kg
Percentage              33.6%
Pltf 4:                770kg
Percentage              33.5%
********************************
            TOTAL
********************************
     Gross    Tare    Net
      2300kg     0kg     2300kg
********************************
          BARYCENTER
********************************
   NO COORD. X NO COORD. Y
********************************
```

```
------------------------------
2022/05/16          18:29:13
Pltf 1:                380kg
Pltf 2:                370kg
Pltf 3:                760kg
Pltf 4:                760kg
********************************
            TOTAL
********************************
     Gross    Tare    Net
      2250kg     0kg     2250kg
********************************
```

8.1 PRINTING THE TOTALS

In the weighing window, press the key 

once, to access the user menu. Use the arrow keys to move, access and leave the menus 

.

The LISTS menu includes the Totals-list.

Accessing this option, prints the list of stored totalweights. In this menu it is to choose, delete or don´t delete the memory after printing the list.

```
------------------------------
        TOTAL WEIGHTS
------------------------------
Date: 2022/05/27   18:38:23
------------------------------

Number of weighings:   8
Totals Gross:      36020kg
Totals Tare:       36020kg
Totals Net:            0kg
------------------------------
```

9. PERSONALIZED TICKET

Request	**DA1 / DA2**
Description	Allows to display the date. Example: 20/02/2020 12:18:00”
Format	0 -> « Label » « Date » « Time » 1 -> « Date » « Time » 2 -> « Label » « Date » 3 -> « Date » 4 -> « Label » « Time » 5 -> « Time »
Example	[DA1,1]

Request	**TIC**
Description	Ticket number
Format	0 -> « Label » « Ticket » 1 -> « Ticket »
Example	[TIC,0]

Request	**PLT**
Description	Display the Platform (Channel) name
Format	0 -> « Label Channel 1 » 1 -> « Label Channel 2 » 2 -> « Label Channel 3 » 3 -> « Label Channel 4 » 4 -> « Label Channel 1+2 » 5 -> « Label Channel 3+4 »
Example	[PLT,0]

Request	**WE**
Description	Display the weight of one Chanel
Chanel	0 -> Chanel 1 1 -> Chanel 2 2 -> Chanel 3 3 -> Chanel 4
Format	0 -> « Label » « Gross weight » 1 -> « Label » « Tare weight » 2 -> « Label » « Net weight » 3 -> « Gross weight » « Tare weight » « Net weight » 4 -> « Gross weight » 5 -> « Tare weight » 6 -> « Net weight »
Example	[WE,0,0]

Request	**PRC**
Description	Display the Percentage
Format	0 -> « Label » « Percentage of channel 1 » 1 -> « Label » « Percentage of channel 2 » 2 -> « Label » « Percentage of channel 3» 3 -> « Label » « Percentage of channel 4» 4 -> « Label » « Percentage of channel 1+2 » 5 -> « Label » « Percentage of channel 3+4 »
Example	[PRC,0]

Request	**COO**
Description	Display the Coordinates
1- Coordinate	0 -> X-Coordinate 1 -> Y-Coordinate
2- Channel	0 -> Channel 1 1 -> Channel 2 2 -> Channel 3 3 -> Channel 4
Example	[COO,0,0]

Request	**ACC**
Description	Display the accumulated Weigh
Format	0 -> « Label » « Gross weight » 1 -> « Label » « Tare weight » 2 -> « Label » « Net weight » 3 -> « Label » « Gross weight » <CR> « Label » « Tare weight » <CR> « Label » « Net weight » 4 -> « Gross weight (accumulated) » 5 -> « Tare weight » 6 -> « Net weight » 7 -> « Gross weight » « Tare weight » « Net weight » 8 -> « Label » (Gross weight) 9 -> « Label » (Tare weight) 10-> « Label » (Net weight) 11-> « Gross weight » 12 -> « Net weight accumulated channel 1+2 » 34 -> « Net weight accumulated channel 3+4 »
Example	[ACC,0]

Request	**DB**
Description	Display the information of Database
1- ID Table	0 -> Plate-Register 1 -> Register 1 2 -> Register 2 3 -> Register 3
2- Format	0 -> « Description » 1 -> « Register name » 2 -> « Register name » « Description »
Example	[DB,0,2]

Request	**DSx**
Description	Display the Alibi (DSD) number
Format	0 -> « Label » « DSD number » 1 -> « DSD number »
Example	[DS1,0]

Request	**BAR**
Description	Display the Barycenter
Format	0 -> X-Coordinate 1 -> Y-Coordinate
Example	[BAR,0]

Request	**TOT**
Description	Introduce the seperator TOTAL
Example	[TOT]

Request	**DBAR**
Description	Draw Barycenter
Example	[DBAR]

Request	**TBAR**
Description	Introduce the seperator BARYCENTER
Example	[TBAR]

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
By default argument	<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>"

10. BY10 DATA VISUALIZER

10.1 X10 DATA VISUALIZER

In the weighing window, press the key MENU MODE, once, to access the user menu. Use the arrow keys to move, access and leave the menus

Move to the BY 10 option and access it. The device switches to the display between the weight with normal sensitivity and the sensitivity ten times higher; it will be noted that the last figure to the right of the display will have a sensitivity equal to the division of the balance divided by 10.

Note: In this situation:
- It is not possible to perform any function for obtaining weighing or printing.
-It is only possible to switch to weight display with sensitivity if you are viewing theweight of one platform or channel.
-With instrument with restricted access, the display with x10 sensitivity remains onthe display for only 5s; after this time, it returns to the normal state of weighing.

Note: The visualization with high resolution is only working for each single channel, not for the sum of channels.

11. ERROR MESSAGES

During operation, the terminal verifies that there are errors, which are notified to the user through messages displayed on the display.

ERROR UL

When the weight is less than the minimum weight and we are viewing a single channel, the equipment will display the UL message on the screen.

ERROR OL

When the weight is bigger than the maximum weight and we are viewing a single channel, the equipment will show the OL message on the screen.

ERROR CH ZR

If the device cannot perform the zero function, on one of the channels it will display Ch1 Zr, Ch2 Zr, Ch3 Zr or/and Ch4 Zr as appropriate.

ERROR CH PMIN

If the device can not store the weight in one of the channels, because the weight to be stored is less than the minimum, it will display Ch1 Pmin, Ch2 Pmin, Ch3 Pmin or/and Ch4 Pmin as appropriate.

ERROR C NO STB

If the device can not store the weight in one of the channels, because the weight to be stored is unstable, it will display Ch1 No STB, Ch2 No STB, Ch3 No STB or/and Ch4 No STB as appropriate.

ERROR CH NO WEI

If the device can not store the weight in one of the channels, because the weight to be stored is zero, it will display Ch1 No WEI, Ch2 No WEI, Ch3 No WEI or/and Ch4 No WEI as appropriate.

ERROR CH UL

When the weight is less than the minimum weight and we are viewing more than one channel, the devicre will display on the screen the message Ch1 UL, Ch2 UL, Ch3 UL or/and Ch4 UL as appropriate

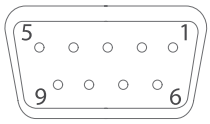
ERROR CH OL

When the weight is bigger than the maximum weight and we are viewing more than one channel, the device will display on the screen the message Ch1 OL, Ch2 OL, Ch3 OL or/and Ch4 OL as appropriate.

12. CELL CONNECTOR

The cable that comes from the transducer/s is connected by welding, it is recommended to be very careful with the quality of this and the isolation between the conductors and the use of a good tin alloy since a product of poor quality or not suitable could harm the proper functioning of the instrument.

The figure shows the topography of the connector, the pins have the following functions:



PIN FUNCTION		
PIN Num	**NAME**	**FUNCTION**
1	-EXC	-excitation
2	-SENSE	-correction terminal
3	GND_A	Analog mass
4	+SENSE	+correction terminal
5	+EXC	+ excitation
7	-SIGN	- Load cell signal
8	+SIGN	+Load cell signal

If the transducer is equipped with a connection cable with 4 wires plus protection, and not with 6 wires plus protection, it is necessary to connect the EXC (+) with SENSE (+) and EXC (-) with SENSE (-) by joining pin 1 with pin 2 and pin 4 with pin 5.
To minimize electrical and radio interference, it is absolutely necessary that all connection cables between the instrument and transducer be of the protected type.

13 REMOVAL OF ELECTRONIC EQUIPMENT (WEE)

For customers of the European Union:

All products at the end of their respective life cycle have to be returned to the builder in order to be recycled. For information on the modalities of restitution contact the reseller or the builder.

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