

GI 430

USER MANUAL

SOFTWARE FOR WEIGHING LORRIES

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| EN



GIROPES)

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0. SET-UP

SET-UP

1- CONNECT THE DEVICE TO A SUITABLE WALL SOCKET (SEE POINT 1)

2- CONNECT THE CELL CONNECTOR TO THE DISPLAY

*IF YOU HAVE A USB KEYBOARD OR OTHER PERIPHERALS CONNECT THEM TO THE DEVICE AS WELL (SEE POINT 1)

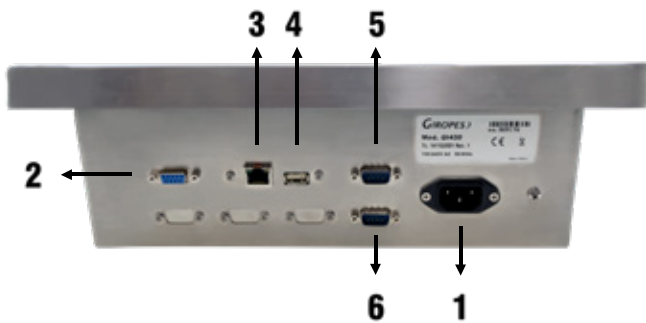
3- WITH THE DEVICE CALIBRATED, YOU CAN FORMAT THE DATABASE (SEE POINT 4.6.1)

4- FILL IN THE FIELDS REQUIRED BY THE DATABASE (SEE POINT 3)

5- OPERATE ACCORDING TO (POINT 2)

1. INTRODUCTION

1.1 SETUP DESCRIPTION



Légende:

- 1. Power connector
- 2. Charging cell connector
- 3. ETHERNET connector (RJ-45)
- 4. USB connector
- 5. COM 1 connector (RS-232)
- 6. COM 2 connector (RS-232)

1.1.1 ANALOGUE LOAD CELL CONNECTION

Maximum input signal	$\pm 3 \text{ mV/V}$
Input impedance	From 25Ω to 1100Ω
Internal resolution	24-bit AD converter, 16,700,000 calculations
Measurement frequency	50 measurements per second
Linearity error	$\Omega 0.01 \%$ of the measurement range
Zero-point stability	$150 \text{ nV/}^\circ\text{C max.}$
Gain stability	$3.5 \text{ ppm / }^\circ\text{C max.}$
Excitation voltage	$6 \pm 0.3 \text{ VDC}$
Minimum transducer resistance	43Ω (8 cellsx 350Ω , 16 cellsx 700Ω)
Maximum transducer resistance	$1000 \text{ k}\Omega$
Cable length	$400 \text{ m/mm}^2 \text{ max. (6 threads)}$ $30 \text{ m/mm}^2 \text{ max. (4 threads)}$
Maximum input current	$\pm 6.8 \text{ V}$

1.1.2 USER INTERFACE

Display	240x128 backlit LCD graphic
Keyboard	24-key membrane keyboard
External keyboard (optional)	Standard PC, USB connector

1.1.3 SERIAL COMMUNICATIONS

Port Tx/Rx: (Channel 1)	RS-232C bi-directional
Port Tx/Rx: (Channel 2)	RS-232C bi-directional
Port Tx/Rx: (Channel 3)	RS-485 half-duplex
Transmission speed	115200, 57600, 38400, 19200, 9600 and 4800 bauds
Number of bits and parity	7 and 8 bits, both without parity, with even parity or with odd parity

1.1.4 SUPPLY

Network connection	110-230 VAC, 50-60 Hz,
DC supply	15 VDC

1.1.5 OPERATING CONDITIONS AND MECHANICAL DATA

Operating temperature range	-10°C to 40°C
Temperature limit	-25°C to 70°C
Size	
Weight	
Assembly	Desktop or wall-mounted, according to model

1.2 GENERAL SPECIFICATIONS

GRAPHIC DISPLAY

The GI430 terminal has a graphic display.

PASSWORD

All programming functions protected via password.

CODE ARCHIVE MANAGEMENT

You may manage an archive of up to 2000 entries.

These archives are used to manage 4 types of code (500 configurable records per code)

For example, Company, Material, Transport, Destination. In addition, it is possible to program a specific name for each code, configurable within the database menu.

REGISTRY MANAGEMENT

The equipment also has a archive of 500 configurable records for registrations, with editable names.

WEIGHT MANAGEMENT

You may store up to 4500 weights; the number of records is calculated as this quantity, minus the registry numbers used in the codes of the separate files.

When the maximum number of registry numbers are assigned to each code, the available storage is 2000 weights.

MANAGEMENT OF STORED TARES

You may manage up to 500 tares. (This is configurable)

MANAGEMENT OF LORRIES IN TRANSIT

You may manage up to 200 lorries in transit.

TYPES OF WEIGHTS

It is possible to execute one of the following types of weights:

- input weight
- output weight
- weight with stored tare (single weighing)

PRINTERS

The peripherals supported for printing are the following:

- thermal printer, 24 type columns *plus2B* (COM1 o COM2)
- (Internal printers should always be connected to COM1)
- continuous tape printer, 80 type columns *LX350* (COM1 o COM2)
- 40-column type ticket printer *ESC/POS/TM295* (COM1 o COM2)
- Thermal printer BTPR990 (COM 1 O COM 2)

All peripherals can be enabled or disabled for the various prints via the settings menu. The prints available are as follows:

- Input printing
- Output printing
- Printing with manual tare
- Print CODES file
- Print REGISTRATIONS file
- Print file of all weights taken
- General printing
- Print lorries in transit

STANDARD PERSONAL COMPUTER KEYBOARD



To configure the terminal, you can connect a standard USB computer keyboard.

This is very useful when it is necessary to enter alphanumeric characters into the configuration (ticket headers, clients names...)

MAXIDISPLAY RP100 MANAGEMENT

- Connection via RS-232, RS-485 or Ethernet
- Transmission of net weight

TICKET FORMAT

You may select the printing fields associated with first-weight, second-weight and single-weight tickets.

I/O ADDRESS

Allows you to manage an indicator light placed at the scale opening (**OUT1**) to indicate that the scale is occupied and therefore not available for weighing operations.

It also allows you to manage an indicator light at the scale exit (**OUT2**) to indicate the end of the weighing / scale output process.

If the i-button is being used, the indicator will show the correct reading (OUT3), and in the event of any error (data not present, or a weight error) the emergency indicator (OUT4) will activate.

DSD MEMORY

It is possible to implement the lorry-weighing operation with the additional panel that performs the FISCAL MEMORY function. This involves archiving all the weight values transmitted to a computer via the COM serial channel or ETHERNET, for further processing or integration via PC. (As a control with regard to the data printed by the PC).

Each archived weight is associated with a two-digit ID code. The stored value can be viewed on the screen of the indicator by entering the ID, or by entering a command on the PC.

The ID has the following format: <Unique code number>-<Weight number>

Unique code number: a 5-digit number ranging from 0 to 99999, which increases for each 400,000 weights memorised.

Weight number: a 6-digit number ranging from 0 to 399999, which increases for each weight memorised.






Entering the command "PID" on a PC will cause the weight ID, gross weight and tare weight to be recorded and accurately identified during weighing, as long as the platform is stable and the gross weight is non-negative and greater than the minimum weight.

1.3 KEYBOARD AND FUNCTIONS


The keyboard, located on the front of the device, is of the membrane type and has 24 keys.

Its arrangement can be seen in figure












OPERATING KEYS	DEFINITION	KEY KEYBOARD
	Activated-Deactivated	
	Adjustments	F9
	Return to the main weighing screen	Inicio
F	Does not function in lorry-weighing models	F8
	Set to zero	F10
	Short press = TARE (Only available outside of legal metrology)	F11
	Long press = DE-TARE	F12

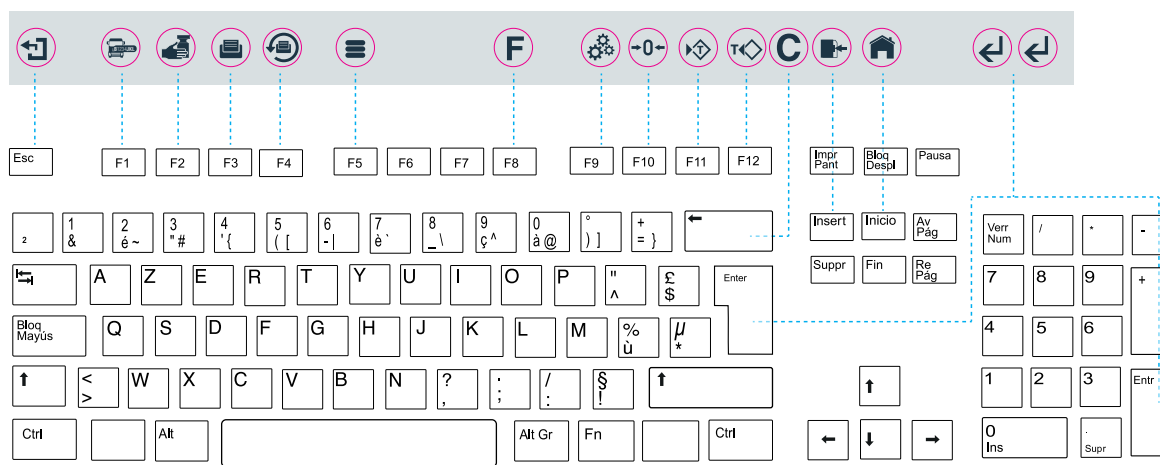
ALPHA-NUMERIC KEYS

1 ABC	9 #+=	alpha-numeric keys	KEYS ALPHA-NUMERIC
C		Delete key	
		Enter key	INTRO/ENTER

DISPLAY KEYS

	Data entry for new weight	F1
	Manual tare	F2
	Direct access to registered entities in transit	F3
	Re-printing	F4
	Access to the database	F5
	Confirm key	INTRO/ ENTER
	Back	ESC
	Save data (add data to memory)	INSERT
	Access the registry settings	INTRO/ ENTER

Inside the GI430 packaging, you will find a sheet of sticky labels, along with a sheet describing the corresponding positions of the icons on the USB keyboard.



1.4 DISPLAY

The indicator consists of a graphic display which you can see in figure

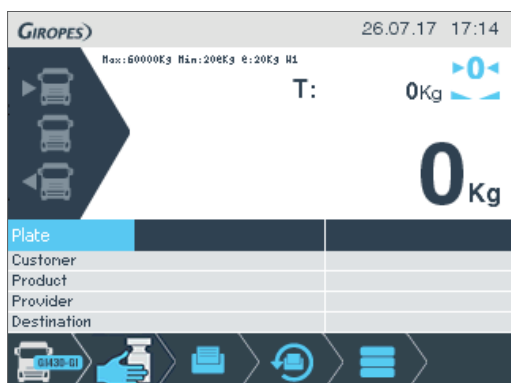


Figure.1 Display status

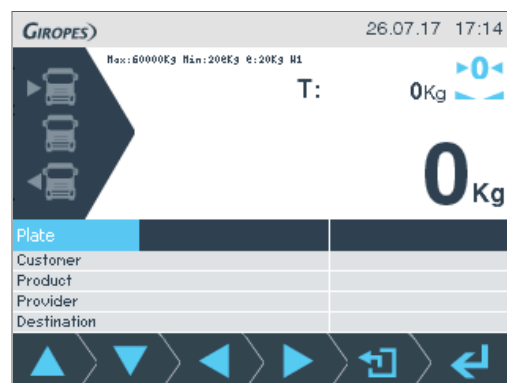


Figure 2 the top right shows the date and time



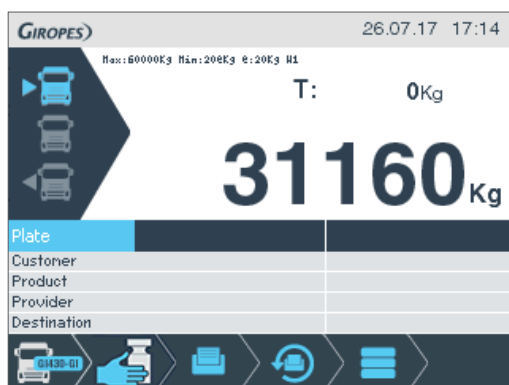
Figura 3

The upper section states the maximum capacity value of the scale, the minimum capacity value of the scale, the number corresponding to E, and the weighing range (w).

The same area will also display and indicate instances of MANUAL TARE o MEMORIZED TARE: MAN

The stability and zero icons will then be activated once the weight of the scale is stable, and will indicate the weight at the same time when the scale returns to the value 0, without any weight.

Just below and occupying the full width is the main weighing indicator, which shows the weight of the scale.



The following shows the area of the records on the database. During weighing, this section is used for entering data (registration, company, product, etc ...)

Plate	
Customer	
Product	
Provider	
Destination	

Lastly, the icons that assign functionality to the context keys will appear.



FUNCTIONALITY


 NET

 W1/W2
 T: 0.000 kg

STABLE INDICATION

INDICATION WITH TARE


INDICATING SYSTEM ZERO

RANGE SITUATION

INDICATION OF THE TARE VALUE

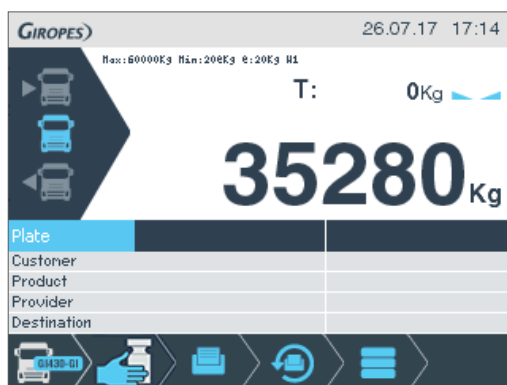
1.5 OPERATIONAL

1.5.1 INDICATOR ACTIVATION

The indicator lights up using the  button on the front panel of the computer keyboard once you are connected to the electricity network. Before using the equipment, it is best to let it stabilise for a while. This is especially important when performing a calibration. In this case it is advisable to wait for about 30 minutes. In order to avoid warm-up times and possible condensation in the event of significant external temperature changes, the equipment can be left permanently connected.

1.5.2 WEIGHT DISPLAY

Upon loading the platform, the weight of the scales will be indicated on the graphic display

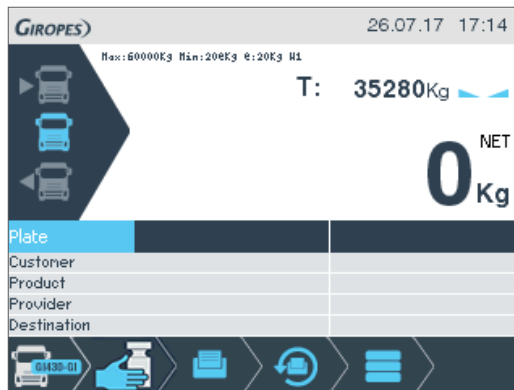


1.5.3 ZERO (→0←, F10)

The indicator has a manual reset. If the →0← key is pressed, the indicator will capture the current weight value as system zero, as long as the current value displayed is within the supported range.

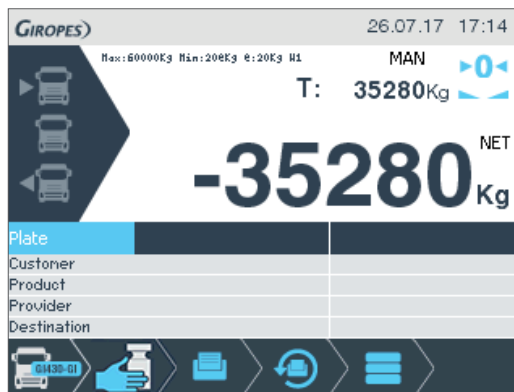
1.5.4 TARE

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





1.5.4.1 NORMAL TARE , F11 on the USB keyboard

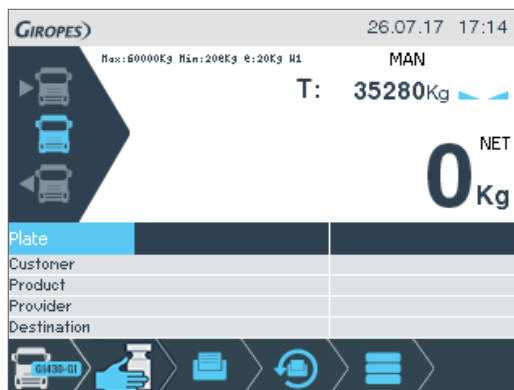
When the tare key is pressed, the current value of the indicator is taken as the tare and the weight display changes to zero. To the right of the weight the word NET will be displayed, indicating that the weight shown is now net weight.



1.5.4.2 MANUAL TARE


Press  or F2 on the USB keyboard and indicate the value of the tare using the numeric keys. Confirm with .

You will see the message **MAN** above the tare value, indicating that the value has been entered manually. You will also see the alert **NET** next to the weight, indicating that the weight shown is now the net weight.



1.5.4.3 DISABLE TARE

To disable the active tare.






Hold down or press once on  F12.

2. WEIGHING INSTRUCTIONS

ATTENTION!!!!




This equipment comes with factory-standard settings which allow you to perform basic weighing operations, however, it is **strongly recommended that you program the data base and the various records as required by the user, BEFORE STARTING WORK.**

2.1 DESCRIPTION OF FUNCTION KEYS

	Double-weight operations (both the first and second weight).
	Manual tare
	Access to registrations in transit.
	Print a ticket for the last recorded weight.
	View or edit database

2.2 OBTAINING THE NET WEIGHT USING TWO WEIGHTS

2.2.1 FIRST WEIGHT

- To record the first weight of a vehicle, press the  key or **F1**.
- Enter the registration and press  or **ENTER** to validate it.
- If during the registration entry process you press  or **ESC**, the process will be cancelled and the weight will not be registered.
- If there are associated records, they will be loaded automatically. The display will show the following message:



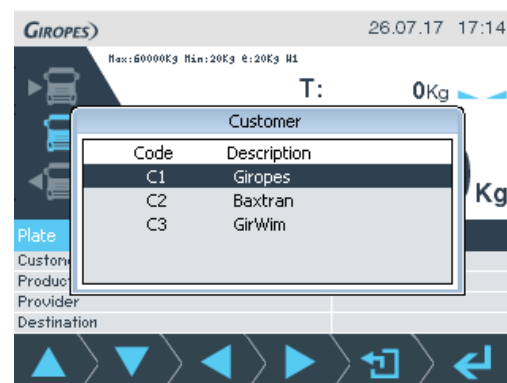
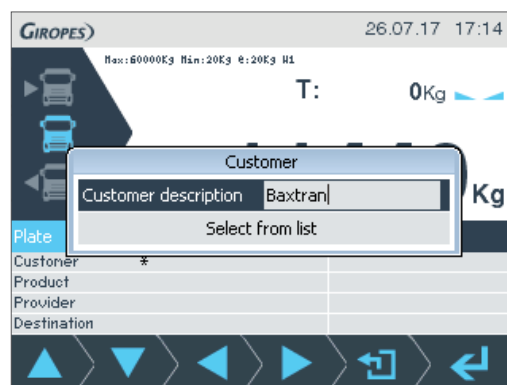
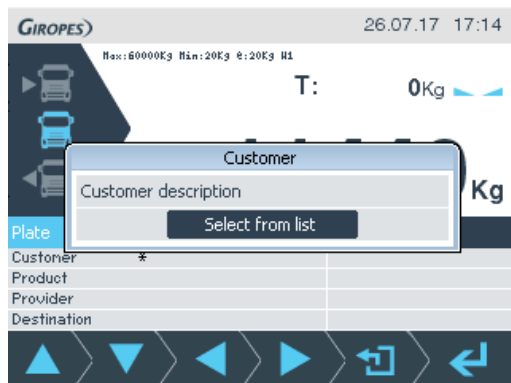
		35280 Kg
Plate	4401BKM	1st Weight
Customer		
Product		
Provider		
Destination		
		

Plate	4401BKM	1st Weight
Customer		
Product		
Provider		
Destination		

- If you want to associate records with the weighing in progress, type the ID of the desired record in the corresponding field and validate.

If you wish to measure a weight with an associated registration that has not been created in the system, type * or press **9** on the membrane keyboard five times, and press **←** or **ENTER/INTRO**, and a window will open in which you may type your desired text and validate it. This window also allows us to select a record already registered in a search list.

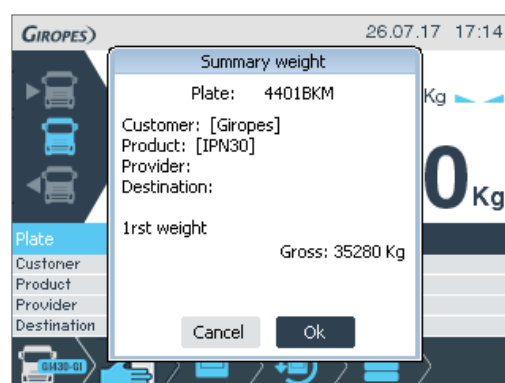


To abandon the process and return to the previous menu. Press **ESC** or **←**. Once you have finished editing all the records **YOU MAY STORE THIS WEIGHT** by pressing **→** or **INSERT ON THE PC KEYBOARD**.






Prior to validating and storing the weight, the computer will attempt to verify that the indicated weight is stable. It is not possible to measure such a weight if any of the following circumstances apply:


- There is a system error
- The indicator displays a status of "Overload" or "Underload"
- The gross weight is less than MIN

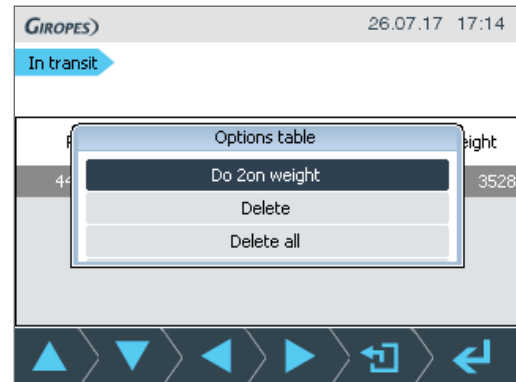
Finally, a screen will appear displaying the data to be registered regarding the weight, at which point you may press **→** or **INSERT on the PC keyboard** or **← ENTER/INTRO** to record and print the ticket (if enabled) or press the **ESC KEY** to cancel registration of the weight.



2.2.2 SECOND WEIGHT

To record the second weight of a vehicle, press the  key or F1. Enter the registration number, or select from the vehicles that are in transit. Press  or F3 to access the listing directly. Using the cursor keys  , choose the registration option and press  or ENTER/INTRO.

A drop-down menu will appear, with the first option being “**DO 2ON WEIGHT**”, press  or ENTER/INTRO. again to return to the weighing screen with all the data relevant to the selected registered entity .



The display will show the following message:




Plate	4401BKM	2nd Weight
-------	---------	------------

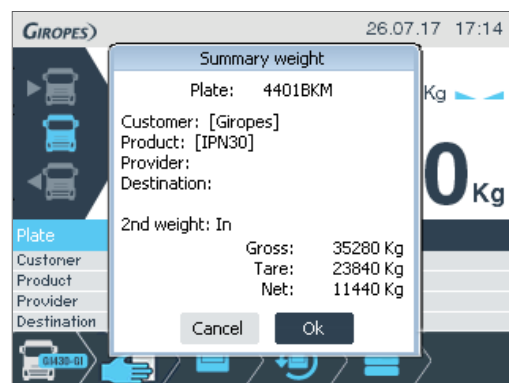
along with any additional details, if any were entered with the first weight. If this is not the case, you can enter or modify it if it is incorrect. Once you have finished editing all the records **YOU MAY STORE THIS WEIGHT** by pressing  or **INSERT ON THE PC KEYBOARD**.

If the weight is not stable, this will be flagged on the display until stability is achieved. If stability is not achieved within 10 seconds, the weight is validated and stored, but when the weighing ticket is printed the weight will be prefaced by an asterisk, indicating that the weight may be incorrect.

Prior to validating and storing the weight, the computer will attempt to verify that the indicated weight is stable. It is not possible to measure such a weight if any of the following circumstances apply:

- There is a system error
- The indicator displays a status of “Overload” or “Underload”
- The gross weight is less than MIN

Finally, a screen will appear displaying the data to be registered regarding the weight, at which point you may press  or **INSERT on the PC keyboard** or  or ENTER/INTRO to record and print the ticket (if enabled) or press the  or **ESC KEY** to cancel registration of the weight.



The indicator automatically records the date and time for this weight. The indicator assigns each double weight a serial number. This number is assigned by the weight table, which allows you to retrieve each weight to consult, modify or print the information that was stored in the table or apply filters

2.3 OBTAINING THE NET WEIGHT USING A SINGLE WEIGHT


2.3.1 WEIGHING A VEHICLE WITH MEMORISED TARE

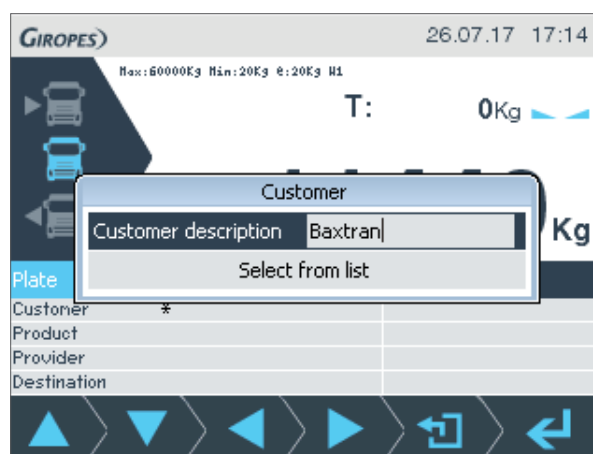
To register a vehicle weight for which you have stored the tare in the LABEL PLATE table, press  or **F1**. Enter the registration and press  or **ENTER/INTRO** to validate it.


The display will show the message **MAN** over the stored tare value, indicating that it is a stored tare. To the side of the weight, the message **NET** will appear, indicating that it is a net weight. A message will appear next to the license plate advising that a single weight will be measured, and the rest of the information stored with that number will also be loaded. If you want to change the records associated with the registration number, hover over the field you want to edit, delete the current value and type the code that you want to assign and validate it

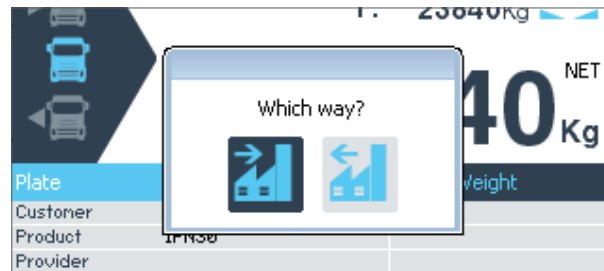
If the entry panel has no associated records and you want to assign them to the current weight, write the desired registration code in the corresponding field and validate.



If you wish to measure a weight with an associated registration that has not been created in the system, type * or press 9 on the membrane keyboard two times, and press  or **ENTER/INTRO**, and a window will open in which you may type your desired text and validate it.

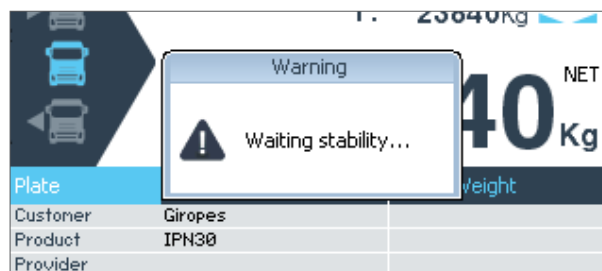


Press  or **INSERT** on the PC **KEYBOARD** to store the weight, and a menu will appear allowing you to select the direction of the weight with the cursor keys (input or output)



Confirm with  or **ENTER/INTRO**.

Prior to validating and storing the weight, the computer will attempt to verify that the indicated weight is stable. If the weight is not stable, this will be flagged on the display:



until stability is achieved. If stability is not achieved within 10 seconds, the weight is validated and stored, but when the weighing ticket is printed the weight will be prefaced by an asterisk, indicating that the weight may be incorrect.

Finally, a screen will appear displaying the data to be registered regarding the weight, at which point you may press  or **ENTER/INTRO** to record and print the ticket (if enabled) or press  **ESC** to cancel registration of the weight.

During this operation, the gross weight on the scale is recorded as the second weight at the time of recording the weight. As with the first weight, the stored vehicle tare is registered. The indicator automatically records the date and time for this weight. With this type of operation, the date and time of the first and second weights are the same


The indicator assigns each double weight (tare and weight) a serial number. This number is assigned by the weight table, which allows you to retrieve each weight to consult, modify or print the information that was stored in the table or apply filters.

With these weights, the indicator records that the tare weight of the vehicle (the first weight) has been entered manually. When the ticket for this weight is printed, an asterisk appears in front of the tare, indicating that this has been entered manually.

It is not possible to measure such a weight if any of the following circumstances apply:

- There is a system error
- The indicator displays a status of "Overload" or "Underload"
- The gross weight is less than MIN

2.3.2 WEIGHING A VEHICLE WITH MANUAL TARE

Assess the tare manually via the indicator key  or **F2**.




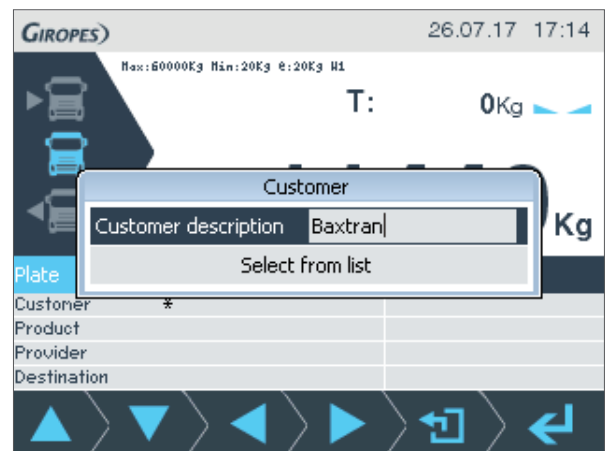
The display will show **MAN** above the tare value indication, indicating that it is a manual tare. To the side of the weight, the message **NET**, will appear, indicating that it is a net weight.

Press  or **F1**.

Enter the registration number and validate by pressing  or **ENTER/INTRO**. To the side of the registration number you will see the message "**MAN TARE**", signifying that the weight will be measured using a manual tare.

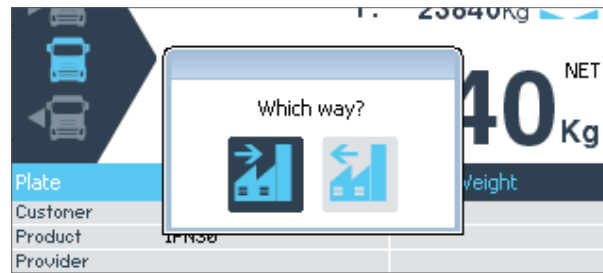
If you want to associate records with the weighing in progress, type the ID of the desired record in the corresponding field and validate

If you wish to measure a weight with an associated registration that has not been created in the system, type * or press 9 on the membrane keyboard two times, and press  or **ENTER/INTRO**, and a window will open in which you may type your desired text and validate it.



Press  or **INSERT on the PC keyboard** to store the weight

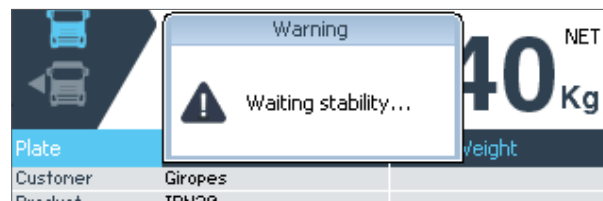
To store the weight, a menu will appear allowing you to select the direction of the weight with the cursor keys (input or output)





Confirm by pressing  or **ENTER/INTRO**.

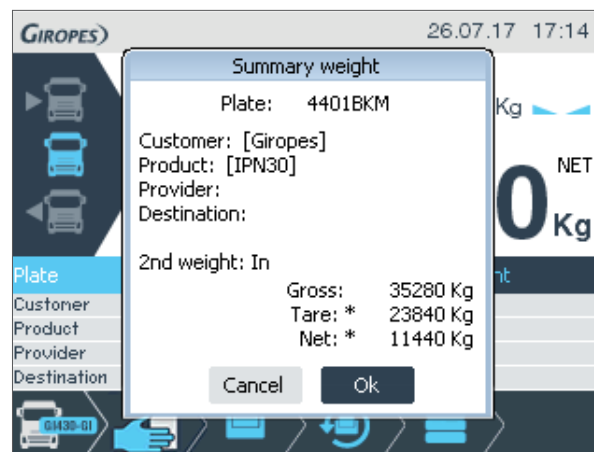
Prior to validating and storing the weight, the computer will attempt to verify that the indicated weight is stable.

If the weight is not stable, the message “awaiting stability” will appear on the display until stability is achieved.



If stability is not achieved within 10 seconds, the weight is validated and stored, but when the weighing ticket is printed the weight will be prefaced by an asterisk, indicating that the weight may be incorrect.

Finally, a screen will appear displaying the data to be registered regarding the weight, at which point you may press  or **ENTER/INTRO** to record and print the ticket (if enabled) or press  **ESC** to cancel registration of the weight.



During this operation, the gross weight on the scale is recorded as the second weight at the time of recording the weight. The manual tare value is registered as the first weight. The indicator automatically records the date and time for this weight. With this type of operation, the date and time of the first and second weights are the same.


The indicator assigns each double weight (tare and weight) a serial number. This number is assigned by the weight table, which allows you to retrieve each weight to consult, modify or print the information that was stored in the table or apply filters. With these weights, the indicator records that the tare weight of the vehicle (the first weight) has been entered manually. When the ticket for this weight is printed, an asterisk appears in front of the tare, indicating that this has been entered manually.

It is not possible to measure such a weight if any of the following circumstances apply:


- There is a system error
- The indicator displays a status of “Overload” or “Underload”
- The gross weight is less than MIN

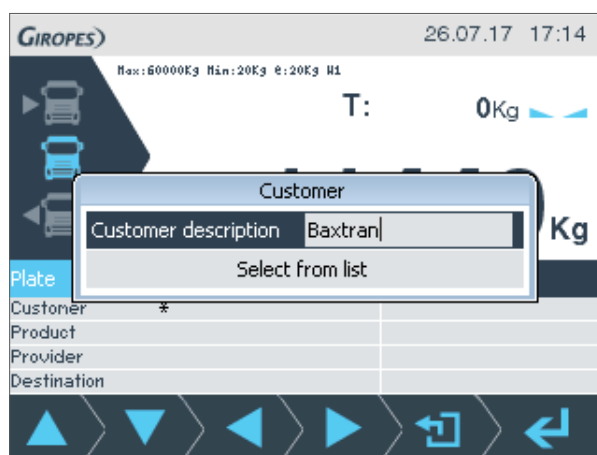
2.3.3 WEIGHING A VEHICLE USING INDICATOR TARE




Measure the tare using the tare weight from the indicator  or press once on **F11**. To the side of the weight, the message NET will appear, indicating that it is a net weight.

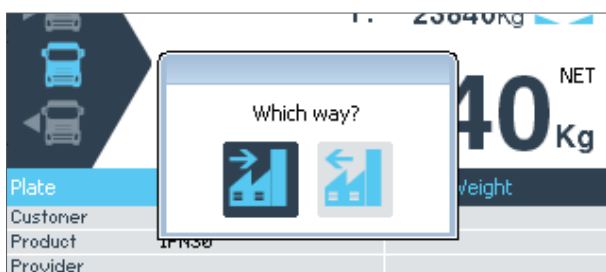
Press  or **F1**.


Enter the registration number and validate by pressing  or **ENTER/INTRO**. To the side of the registration number you will see the message “**TARE**” signifying that the weight will be measured using a tare.



If you want to associate records with the current weight, type the ID of the desired record in the corresponding field and validate.



If you wish to measure a weight with an associated registration that has not been created in the system, type * or press 9 on the membrane keyboard two times **9** and press  or **ENTER/INTRO**, and a window will open in which you may type your desired text and validate it.

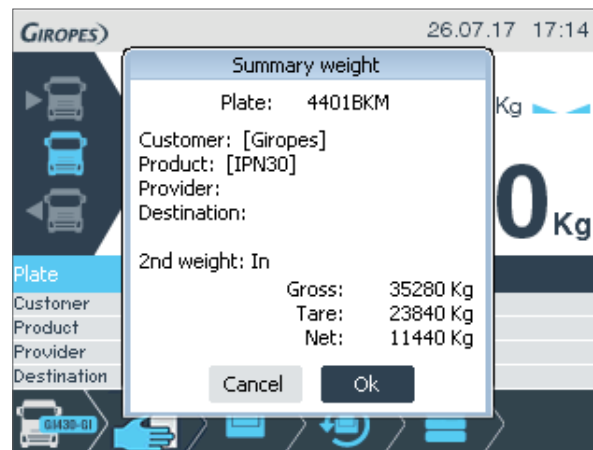


Press  or **INSERT** on the PC keyboard to store the weight, and a menu will appear allowing you to select the direction of the weight with the cursor keys (input or output)

Prior to validating and storing the weight, the computer will attempt to verify that the indicated weight is stable. If the weight is not stable, the message “awaiting stability” will appear on the display until stability is achieved. If stability is not achieved within 10 seconds, the weight is validated and stored, but when the weighing ticket is printed the weight will be prefaced by an asterisk, indicating that the weight may be incorrect.



Finally, a screen will appear displaying the data to be registered regarding the weight, at which point you may press  or **ENTER/INTRO** to record and print the ticket (if enabled) or press  or **ESC** to cancel registration of the weight.



During this operation, the gross weight on the scale is recorded as the second weight at the time of recording the weight. The manual tare value taken is registered as the first weight. The indicator automatically records the date and time for this weight. With this type of operation, the date and time of the first and second weights are the same.

The indicator assigns each double weight (tare and weight) a serial number. This number is assigned by the weight table, which allows you to retrieve each weight to consult, modify or print the information that was stored in the table or apply filters.

It is not possible to measure such a weight if any of the following circumstances apply:

- There is a system error
- The indicator displays a status of “Overload” or “Underload”
- The gross weight is less than MIN

2.4 PRINTING A TICKET FOR THE LAST RECORDED WEIGHT

To print a weight ticket with the information from the last operation, press the  key or the F4 key on your PC keyboard.

The ticket that will be printed will be either standard or a custom one, depending on the format programmed for the last ticket printed

FIRST WEIGHING (STANDARD)

```

=====
Giropes SL
Poligono Esporda Internacional
C/Mollo, 15-16 Tel. 972 527 212
17469 VILANILLA

DATE IN      20/07/2018  11:21:00

Plate: 3252J
Client: Juan
Product: Piedra
Provider: Interconstruct
Destination: Girona

1rst Weight:      88 kg

visit our website
=====
  
```

SECOND WEIGHING (STANDARD)

```

=====
Giropes SL
Poligono Esporda Internacional
C/Mollo, 15-16 Tel. 972 527 212
17469 VILANILLA

DATE IN      20/07/2018  11:21:00
DATE OUT     20/07/2018  11:21:00
Number weight      #1

Plate: 352J
Client: Juan
Product: Piedra
Provider: Interconstruct
Destination: Girona

1rst Weight:      88 kg
TARE:             88 kg
BRUT:             376 kg

SENSE      OUT
NET:             288 kg

visit our website
=====
  
```

ONLY ENTRY (STANDARD)

```

=====
Giropes SL
Poligono Esporda Internacional
C/Mollo, 15-16 Tel. 972 527 212
17469 VILANILLA

DATE IN      20/07/2018  11:23:00
DATE OUT     20/07/2018
Number weight      #2

Plate: 5235T
Client: Juan
Product: Arena
Provider: Interconstruct
Destination: Banyoles

1rst Weight:      460 kg
TARE:             460 kg
BRUT:             * 250 kg

SENSE      IN
NET:             * 210 kg

visit our website
=====
  
```

ONLY WAY OUT (STANDARD)

```

=====
Giropes SL
Poligono Esporda Internacional
C/Mollo, 15-16 Tel. 972 527 212
17469 VILANILLA

DATE IN      20/07/2018  11:23:00
DATE OUT     20/07/2018
Number weight      #3

Plate: 6538K
Client: Pedro
Product: Piedra
Provider: Solimar
Destination: Girona

1rst Weight:      300 kg
TARE:             300 kg
BRUT:             * 464 kg

SENSE      OUT
NET:             * 164 kg

visit our website
=====
  
```

3. DATA BASE (LISTED)

```

=====
GIROPES)  26.07.17  17:14

Tables

Customer      Weighing Register
Product       Plate in transit
Provider
Destination
Plates

< > < > < > < >
  
```




Using this menu, you can view and modify the fields of the different tables in the lorry-weighing application database.

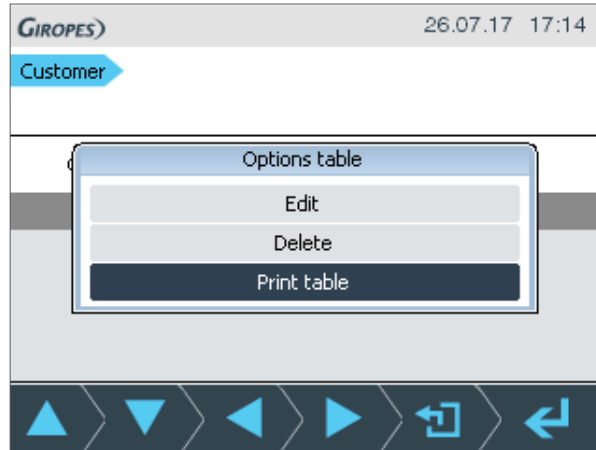
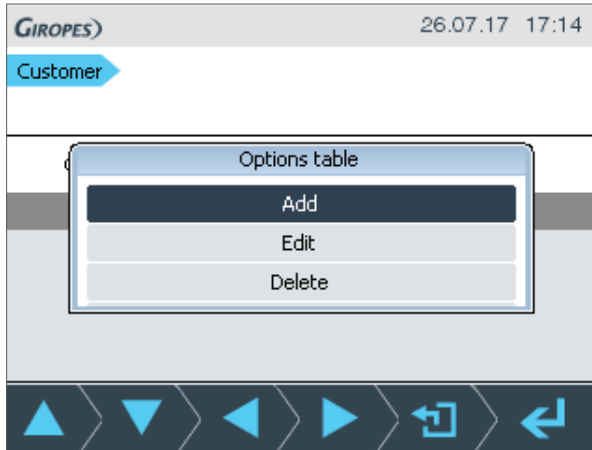
Press  or **F5** to access the database.

In this menu you will see the active free codes, previously configured with a name and a quantity of registry numbers (Customer, Product, Supplier, Destination). Also displayed are the registration number (with editable name), the table of registered weights **WEIGHING REGISTER** and the table of registration plates in transit **PLATE IN TRANSIT**.

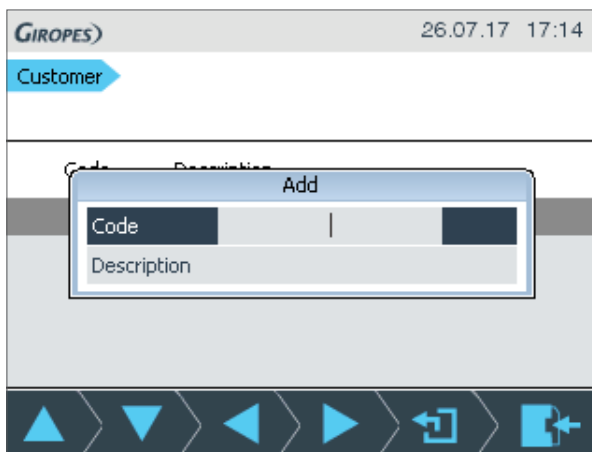
3.1 FREE CODE TABLES

Using the cursor keys, select the code that you want to edit.

Press  or **ENTER/INTRO**. The display will show the code * not editable or modifiable. This is the registry number assigned to unregistered texts. Press  or  or **ENTER/INTRO** and a menu with the available options will open.




3.1.1 ADD FUNCTION



Select **ADD** and validate, to add a new record



The device will ask you to assign a code and a description; to switch from a code to a description, press the downwards cursor key.

Once data entry is complete, store the data by pressing  or **INSERT**.

Perform the same steps until you have entered all of the desired records

3.1.2 EDIT FUNCTION

With the cursor keys, select the record for which you want to edit the description.

Press  or  or **ENTER/INTRO** and a menu with the available options will open



Select **EDIT** option and validate, to modify a previously created record.

The device will display the previously entered code and description, so that you can move the cursor to the description to modify it.

Once the changes are complete, store them by pressing  or **INSERT**.

3.1.3 DELETE FUNCTION



Using the cursor keys, select the registry entry that you want to delete.

Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

Select the **DELETE** option and validate it, to delete a previously created file.

If the code is associated with a registration, the screen will display an error informing you of the association and will not delete the registration.

3.1.4 PRINT TABLE FUNCTION

Press  or  or **ENTER/INTRO**, and a menu with the available options will open.



Select the **PRINT TABLE** option and validate. The free code table you are viewing will be printed by the active printer for that purpose.

Note: The fields printed vary depending upon the type of printer chosen.

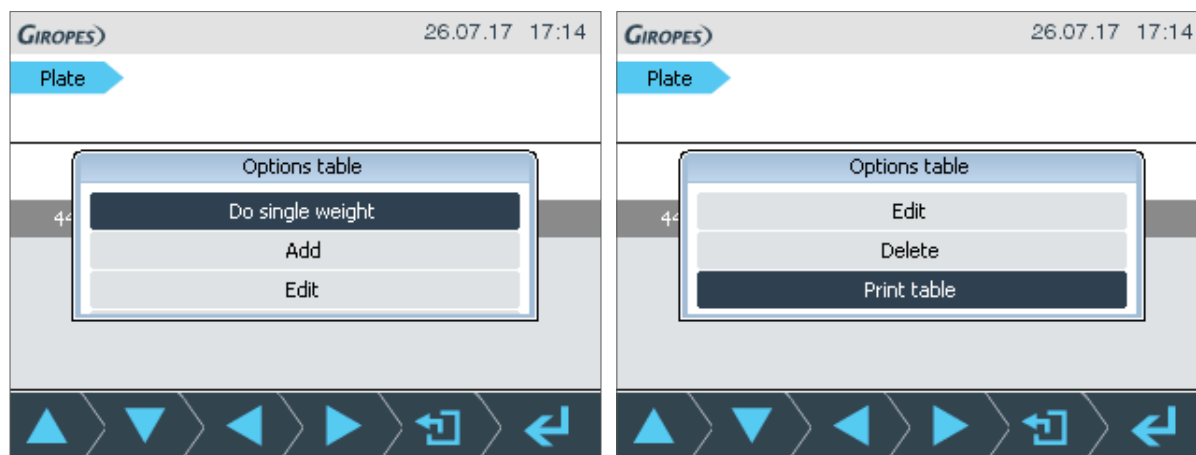
3.2 REGISTRATION NUMBER TABLE

Using the cursor keys, select the Registration code (or the name you provided).

Press  or **ENTER/INTRO**. The display will show the empty table with only the header. The free codes will be displayed along with their assigned names.



Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

- DO SINGLE WEIGHT
- ADD
- EDIT
- DELETE
- PRINT TABLE



3.2.1 DO SINGLE WEIGHT FUNCTION

With the cursor keys, select the registration number with which you wish to measure the weight.

Press  or  or **ENTER/INTRO**, and a menu with the available options will open. Select the option **DO SINGLE WEIGHT** and validate it, and the indicator will go to the main window with registration number, the tare and all associated fields already loaded, in order to measure a single weight with a stored tare.


3.2.2 ADD FUNCTION

Select **ADD** and validate, to add a new record

The device will ask you to assign the registration and the codes of the previously created free registrations that you want to associate with that registration.

Lastly, you will be asked for the tare value that you wish to associate with the registration.

To change fields whilst editing, use the cursor keys.

Once data entry is complete, store the data by pressing  or **INSERT**.


3.2.3 EDIT FUNCTION

With the cursor keys, select the record for which you want to edit the description.

Press key  or  or **ENTER/INTRO**, to open a menu with the available options.



Select the **EDIT** option and validate, to modify a previously created record.

The computer will show the registration number and the codes of each of the previously filled fields and the cursor, so that you can toggle between the codes to modify them or add them.

Once data entry is complete, store the data by pressing  or **INSERT**.

3.2.4 DELETE FUNCTION

Select the record that you want to delete with the cursor keys.

Press  or  or **ENTER/INTRO**, and a menu with the available options will open. Select the **DELETE** option and validate it, to delete a previously created file

3.2.5 PRINT TABLE FUNCTION

Press  or  or **ENTER/INTRO**, to open a menu with the available options.

Select the Print table option and validate. The stored registration number table you are viewing will be printed by the printer specified for that purpose.

Note: The fields printed vary depending upon the type of printer chosen.

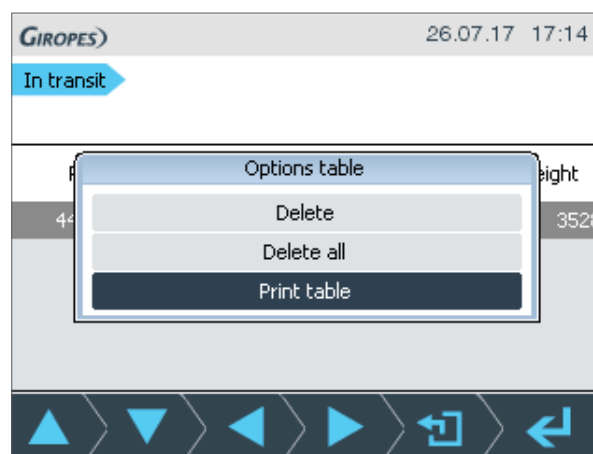
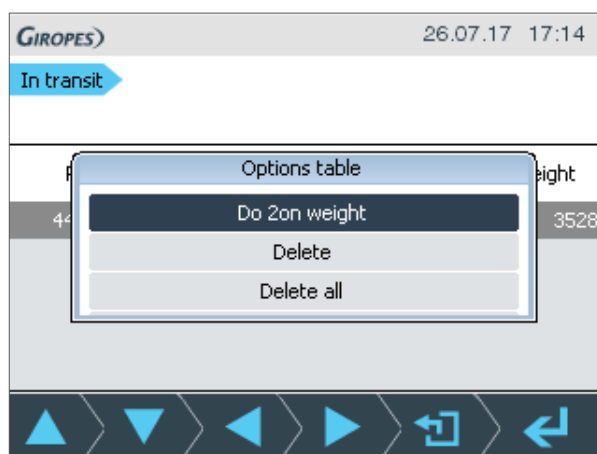
3.3 TABLE OF NUMBERS IN TRANSIT

Using the cursor keys, select the PLATE IN TRANSIT field.

Press  or **ENTER/INTRO**. A table will display those registration numbers for which a single weight was taken, along with the weighing data.



Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

- DO 2ON WEIGHT
- DELETE
- DELETE ALL
- PRINT TABLE



3.3.1 DO 2^{ON} WEIGHT FUNCTION



With the cursor keys, select the record for which you want to measure a second weight.

Press  or  or **ENTER/INTRO**, and a menu with the available options will open.


Select the **DO 2ON WEIGHT** option and validate it, and the indicator will go to the main window with the registration number, the measured first weight and all associated fields already loaded, in order to measure a second weight.

3.3.2 DELETE FUNCTION

Using the cursor keys, select the registry entry that you want to delete.



Press  or  or **ENTER/INTRO**, and a menu with the available options will open. Select the **DELETE** option and validate it, to delete the selected weight in transit.

3.3.3 DELETE ALL FUNCTION

Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

Select the **DELETE ALL** option and validate it, to delete all the weights in transit (first weight).

3.3.4 PRINT TABLE FUNCTION



Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

Select the **PRINT TABLE** option and validate. The table of registrations in transit you are viewing will be printed by the printer specified for that purpose.

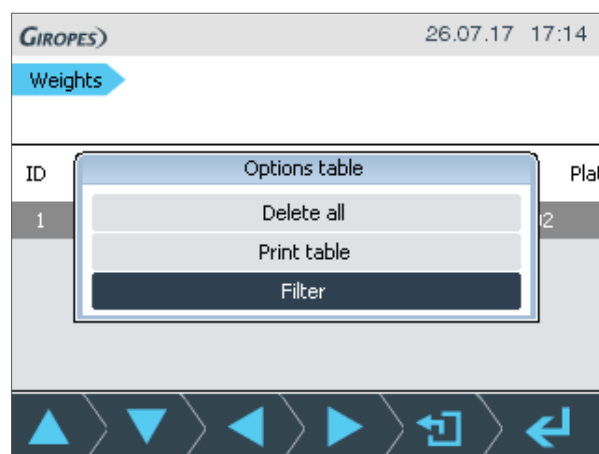
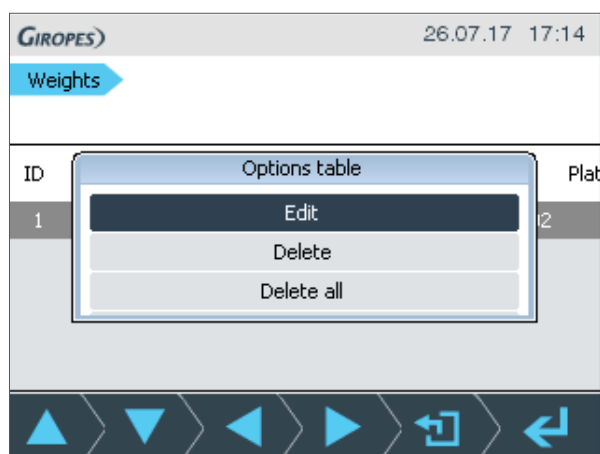
NOTE: The fields printed vary depending upon the type of printer chosen.

3.4 WEIGHTS TABLE

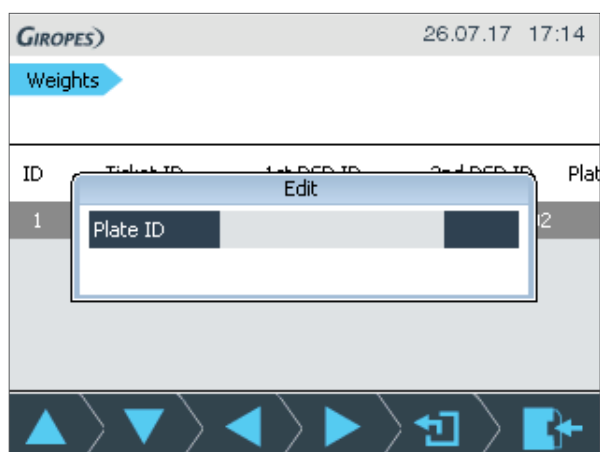
Using the cursor keys, select the WEIGHT field. Press  or **ENTER/INTRO**.

A table will display those registration numbers for which weighing is complete (first and second, or tare and single weight), along with the weighing data. Press  or  or **ENTER/INTRO**, and a menu with the available options will open.

- EDIT
- DELETE
- DELETE ALL
- PRINT TABLE
- FILTER




3.4.1 EDIT FUNCTION





With the cursor keys, select the record for which you want to edit the registration number.

Press  or  **ENTER/INTRO**, and a menu with the available options will open.

Select **EDIT** option and validate, to modify the registration number.

Once data entry is complete, store the data by pressing  or **INSERT**.



3.4.2 DELETE FUNCTION

Using the cursor keys, select the registry entry that you want to delete. Press  or  **ENTER/INTRO**, and a menu with the available options will open. Select the **DELETE** option and validate it, to delete the selected registered weight.

3.4.3 DELETE ALL FUNCTION

Press  or  **ENTER/INTRO**, and a menu with the available options will open. Select the **DELETE ALL** option and validate it, to delete all the completed registered weights.




3.4.4 PRINT TABLE FUNCTION

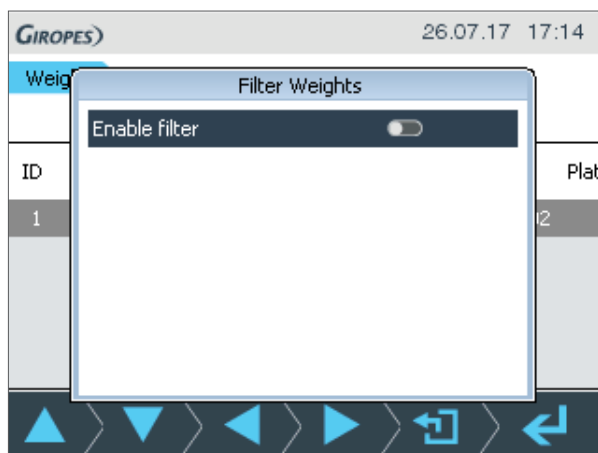
Press  or  **ENTER/INTRO**, and a menu with the available options will open. Select the **PRINT TABLE** option and validate. The finished weighing table, and a summary of the total kilograms entered and outputted, will be printed by the printer specified for this purpose.

NOTE: The fields printed vary depending upon the type of printer chosen


3.4.5 FILTER FUNCTION










Press  or  **ENTER/INTRO**, and a menu with the available options will open. Select the **FILTER** option and validate.

A screen will appear to activate the filters. From that point, you will be able to fill out the fields by which you want to filter. Press the  key or **ENTER/INTRO**, to confirm and display the list filtered by the chosen fields. Now you may press  or  or **ENTER/INTRO**, to access the previously described menu and access the 'edit', 'delete', 'delete all', 'print table' or 'add filters' commands.



LIMITED PROGRAMMING PROCEDURE

To enter the limited configuration and programming menu you need to press the  button and choose your desired menu. Pressing it will prompt you to enter the access code, which by default is 0000.

To move between the various menu options use the , , ,  keys or the cursor keys on the PC keyboard. To access the selected option press the  key or the cursor keys on the PC keyboard. To leave the option without saving press the  key or **ESC** on the PC keyboard. To modify the settings, enter the desired value with the numerical keyboard and press the  key, to save the changes you've made press the  key or **INSERT** on the PC keyboard. To return to the weighing mode press the  key repeatedly or **ESC** on the PC keyboard.

4. SETUP DESCRIPTION (NON-METROLOGICAL)

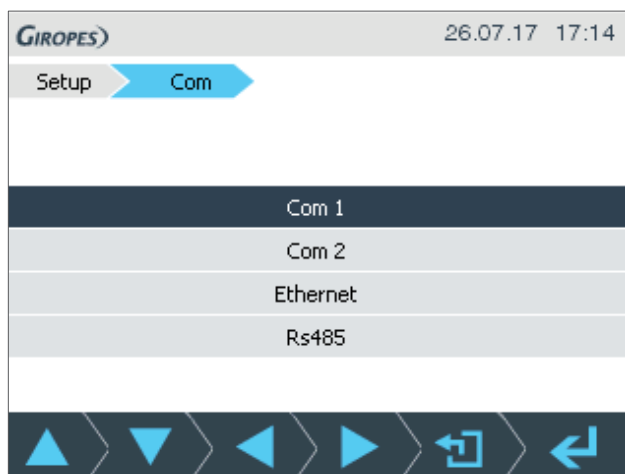
Within the configuration level of the **NON-METROLOGICAL PARAMETERS** indicator

In this section you can see and configure the non-metrological parameters and modify and program them just through the use of a PIN, without needing to break seals.

- COMMUNICATIONS
- PRINTER
- REGIONAL CONFIGURATION
- DIAGNOSTICS
- ADDITIONAL
- DATABASE
- DEVICE INFO



4.1 COMMUNICATIONS



Menu for the configuration of communication ports

- COM 1 RS232
- COM 2 RS232
- ETHERNET
- RS485

4.1.1 COM1 Y COM2 (RS-232)

COM1 (RS232) In this level you can configure the different options of the COM2 communication port.

COM 1	
Frame	8 n 1
Baudrate	9600
Protocol	Pr PLUS2
Trigger	Manual
Address	0

(*1) FRAME

Selection of the number of bits and the parity. The possible options are: (8n1-8n2-8e1-8o1-7n2-7e1-7e2-7o1-7o2)
(By default it is 8n1)

(*2) BAUDRATE

Transmission speed in bps.
The possible options are: (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200)

(*3) PROTOCOL

Protocol or Format of the data transmitted by any of the COMs
The possible options are: None, Giropes-sipi2-Sensocar-eric-epelsa-smart-Mettler-sb400-alibi.
PRPLUS2 - PRLX300-BTPR990 - ESC / POS, TOMU295.
(see annex i protocols)

(*4) DELIVERY

Operating mode for delivery of data from the port. The possible options are: OFF, INTERVAL, PAS 0, MANUAL, PC REQUEST, CONTINUE, STABLE, INTERVAL The data is transmitted every xxxx milliseconds, when this option is chosen, an extra field appears to let you program the time in m / s.

(*5) ADDRESS

The network address of the device must be different to "0". The possible options are: 00 to 99

Al finalizar la programación para guardar los cambios realizados pulsar la tecla  o **INSERT** del teclado PC

COM2 (RS232) In this level you can configure the different options of the COM2 communication port.

FRAME *1

BAUD RATE *2

PROTOCOL *3

DELIVERY *4

ADDRESS *5

COM 2	
Frame	8 n 1
Baudrate	600
Protocol	Pr ESC/POS
Trigger	PC request
Address	00

To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

4.1.2 ETHERNET

ETHERNET

In this level you can configure the different options of the ETHERNET communication port. The available options are configuration of the protocol and the mode of delivery. Any other configurations can be done through a PC with additional software

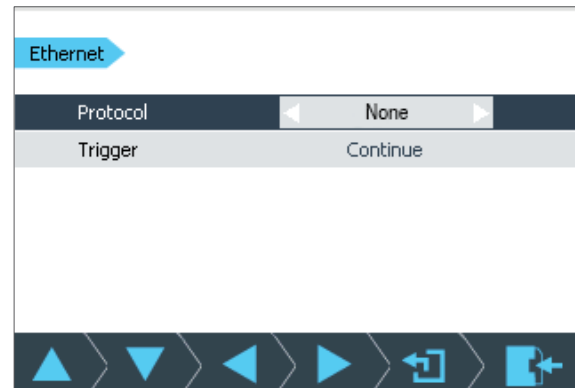
PROTOCOL

Protocol or Format of the data transmitted by any of the COMs. The possible options are: None, Giropes-sipi2-Sensocar-eric-epelsa-smart-Mettler-sb400-

DELIVERY

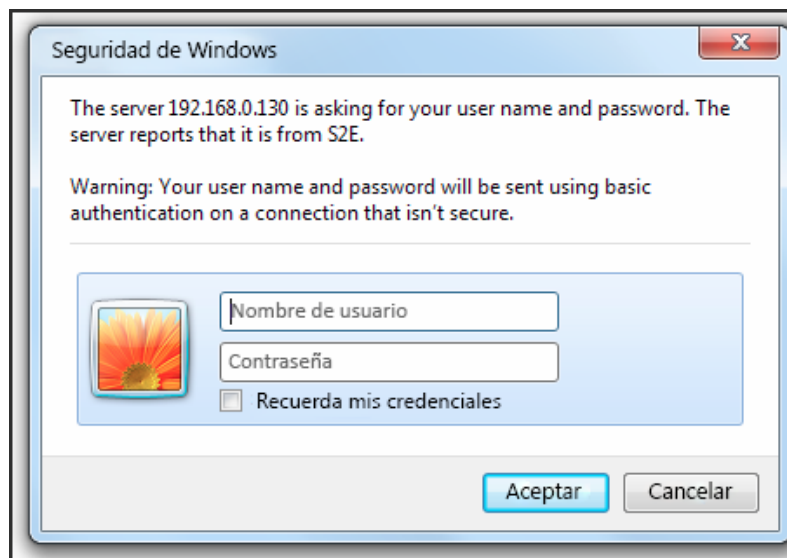
Operating mode for delivery of data from the port. The possible options are:

No, pas 0, Manual, PC request, continue, stable



ETHERNET MENU (ONLY WORKS WITH OPTIONAL ETHERNET BOARD)

Connect the device to the PC via a switch. Introduce the device's IP in the browser. 192.168.0.130 (by default)




Introduce the username and password (admin and 1234 by default).

In the IP Configuration tab you can change the IP.

In the TCP/UDP Mode tab you can change the port.

You can change the username and/or the password in the **Password tab**.

If you forget them, you must open up the device and connect the RST pads for 5 seconds to reboot the factory settings.

Once programming is complete, save changes by pressing the  key or **INSERT** on the computer keyboard.

4.1.3 COM3 (RS485)

In this level you can configure the different options of the COM3 communication port. The available options are the same as those for the COM1 port. In the final option you will have to enter a number other than 0

FRAME	See page 30
BAUD RATE	See page 30
PROTOCOL	See page 30
DELIVERY	See page 30
ADDRESS	See page 30

GIROPES

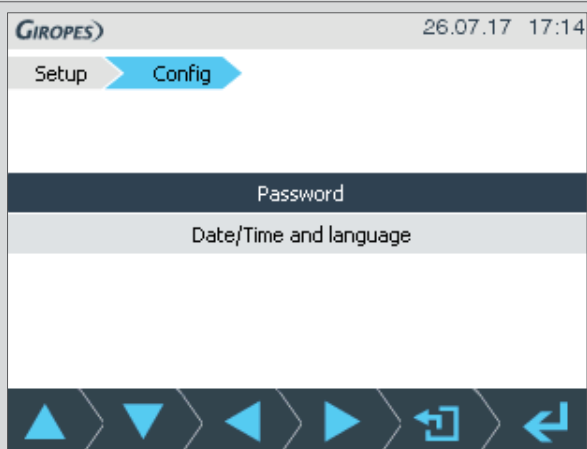
RS485

Frame	8 n 1
Baudrate	9600
Protocole	None
Envoi	Off
Adresse	00



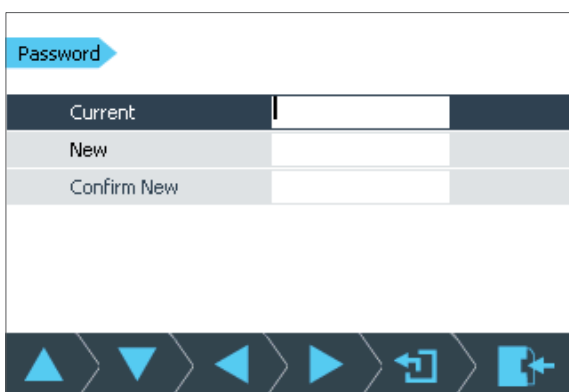
To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

4.2 REGIONAL CONFIGURATION



A menu that affects configuration of the non-metrological aspects of the equipment, such as:

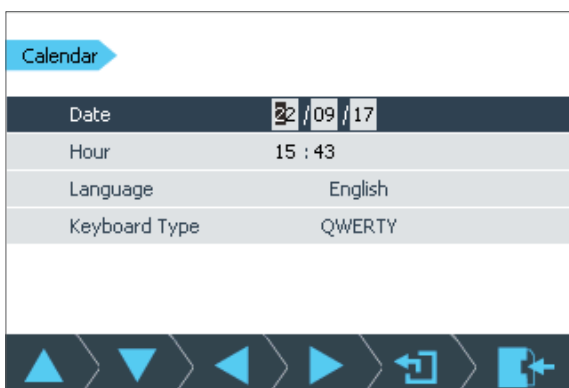
- **PASSWORD**
- **DATE/TIME/LANGUAGES**



4.2.1 PASSWORD

Allows you to change your PIN code. To be able to do this you will have to correctly enter the new PIN two times.

To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard



4.2.2 DATE/TIME AND LANGUAGE

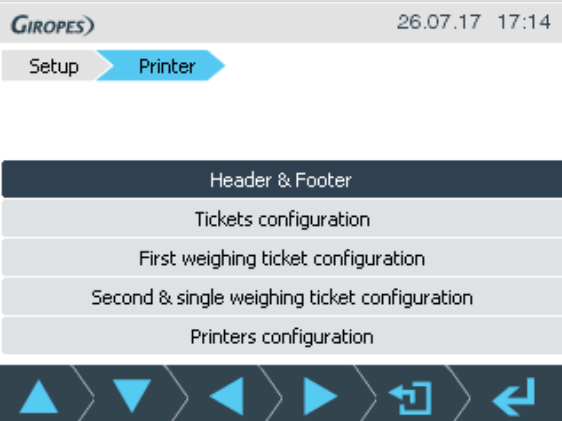
Displays the equipment's date and allows you to change it. Displays the equipment's time and allows you to change it.

Allows you to configure the language of the indicator menus. The possible options are:

SPANISH, FRENCH, ENGLISH, ITALIAN

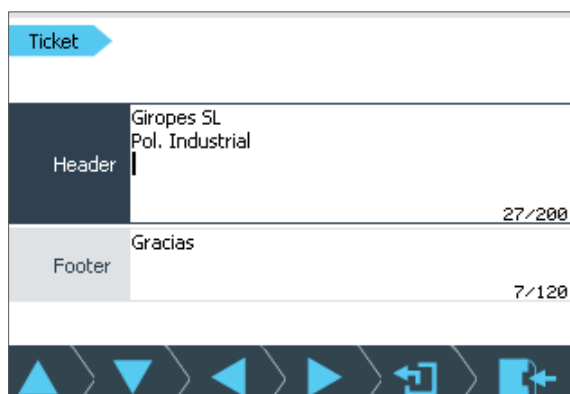
To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

4.3 PRINTER



Menu for configuring all the possible internal / external printers. Connectable to the COM1 or COM2 port:

HEADER & FOOTER
TICKET CONFIGURATION
FIRST WEIGHING TICKET CONFIGURATION
SECOND AND ONLY WEIGHT TICKET
PRINTERS CONFIGURATION



4.3.1 HEADER AND FOOTER

(HEADER AND FOOTER)

Entry of text for each line on the ticket. A maximum of 4 header lines with a maximum of 200 characters, and 2 footer lines with a maximum of 120 characters. See image.

4.3.2 CONFIGURATION TICKET

This menu is used for entering various information, relating to the Tickets that you are going to print

4.3.2.1 TICKET_ID

This menu is where we enter the numerical value that we want to use to initiate the Ticket counter, for example we can enter the number that corresponds with a delivery note that we are already using. The possible choices are: beginning from 00000

4.3.2.2 INCREASE TICKET ID

In this menu you can choose between increasing the Ticket ID on the 1st or 2nd weighing.

4.3.2.3 FIRST WEIGHT TICKET

In this menu we can choose the ticket option we want to use for the first weighing. The possible choices are:

- NO: Does not produce Ticket
- STANDARD: prints the standard Ticket as per the equipment's default configuration
- PROGRAMMED: it will print a Ticket as programmed in the following section

4.3.2.4 SECOND WEIGHT TICKET

In this menu we can choose the ticket option we want to use for the second weighing. The possible choices are:

- NO: Does not produce Ticket
- STANDARD: prints the standard Ticket as per the equipment's default configuration
- PROGRAMMED: it will print a Ticket as programmed in the following section

4.3.2.5 SINGLE WEIGHT TICKET

In this menu we can choose the ticket option we want to use for the second weighing. The possible choices are:

- NO: Does not produce Ticket
- STANDARD: prints the standard Ticket as per the equipment's default configuration
- PROGRAMMED: it will print a Ticket as programmed in the following section



4.3.2.6 PRINT COPIES (FIRST, SECOND OR SINGLE WEIGHING)


In this menu the number of print copies can be configured for the 1st, 2nd or single weighing.

First W

Header		
Date	Time	
Ticket id		
DSD id		
Plate		
Code 1	Label 1	Id 1
Code 2	Label 2	Id 2
Code 3	Label 3	Id 3
Code 4	Label 4	Id 4

4.3.3 1ST WEIGHT TICKET CONFIGURATION

This menu is used for configuring the Ticket that is produced if you selected the Programmed option from the previous menu, allowing you enable or disable the fields by positioning the cursor over the field that you want to enable and pressing the enter key. The fields with a green tick will be printed onto the Ticket and the ones with a white background and no tick will not be printed onto the Ticket


To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

Second W

Header		
Date	Time	
Date Out	Time Out	
Ticket id		
DSD id		
Plate		
Code 1	Label 1	Id 1
Code 2	Label 2	Id 2
Code 3	Label 3	Id 3

4.3.4 2ND WEIGHT AND SINGLE WEIGHT TICKET CONFIGURATION

This menu is used for configuring the Ticket that is produced should you have selected the programming option from the previous menu, to be able to enable or disable the fields position the cursor over the field that you want to enable, and press the enter key. The fields with a green tick will be printed onto the Ticket and the ones with a white background and no tick will not be printed onto the Ticket

To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

4.3.5 PRINTERS CONFIGURATION

In this menu you can configure the type of Ticket that will be printed in each printer selected, for example: you can have 2 printers, a type 36 col. integrated into the equipment that will be configured to COM 1, for printing tickets, and the other a type 80 col. The Epson lx300 type that will be connected to COM 2 and that will printed the lists of weights and products.

The possible options are:

Ticket Printout: YES – NO

List Printout: YES – NO

Line preview: 0 to 99

GIROPES 26.07.17 17:14

Setup Printer Config

Printer COM 1
Printer COM 2

GIROPES 26.07.17 17:14

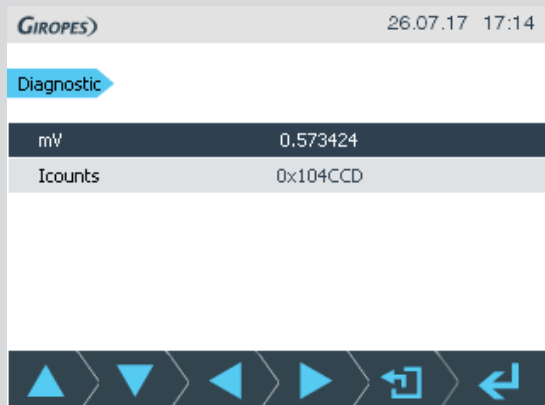
Printer 1

Tickets	<input type="checkbox"/>
Lists	<input type="checkbox"/>
Advance lines	0



To finalise the programming and save the changes you made, press the  key or **INSERT** on the PC keyboard

4.4 DIAGNOSTICS



Menu for carrying out the operating test of the various CPU modules:

4.4.1 mV. CELL

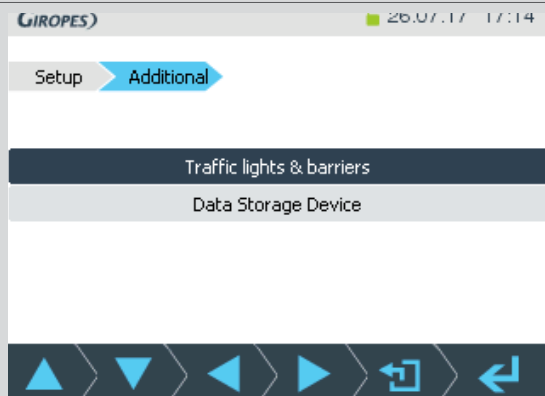
You can produce and see on the screen the mV that correspond to the platform weight.

NOTE: The maximum input voltage that the instrument accepts is 10 mV; the weighing system is fed a 5 Vdc current by the indicator. For proper operation, this value must be less than 10,00000, with a weight corresponding to the maximum capacity of the balance

4.4.2 I. COUNTS

The second line of the screen shown by accessing the DIAGNOSTICS menu is the one that shows the platform points.

4.5 ADDITIONAL



The GI430 allows the use of additional modules, for connection to external systems. Currently there are 2 types of modules:

1. Digital Input/Output Module: 4 inputs, 4 outputs (relay).

2. DSD module. Fiscal memory

The connection between the modules and the computer is performed internally.


The configuration of modules is done in the SETUP menu > Additional.

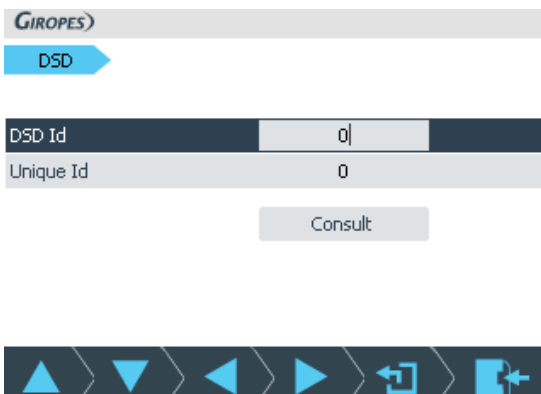


4.5.1 TRAFFIC LIGHTS AND BARRIERS

A list of 4 possible logical exits appears numbered from 1 to 4 as entrance / exit traffic lights and entrance / exit barriers. Using the cursor keys scroll through the list and activate or deactivate the option marked OFF/ON.

The possible options are: NO – YES

Once programming is complete, save changes by pressing the  key or **INSERT** on the computer keyboard



4.5.2 DATA STORAGE DEVICE

It is possible to increase the functioning of the weight indicator with the additional board which carries out the FISCAL MEMORY function; this consists of archiving all the relayed weight values to a computer for subsequent processing or integration of the data transmitted via the COM series channel.

Each archived value is associated with an ID code. The memorised value can be consulted on the indicator's display using the ID in this menu (as a control with respect to the data printed by the PC).

The fiscal memory can store a maximum of 400,000 weights, after which it rewrites the number 0 over the weight.

The scale number, gross weight, tare weight and an ID that identifies the unambiguous weighing manner are sent with the PID series command or using the key, only in the case that the platform is stable and the gross weight is not negative.

The ID has the following format:

<Unique code number> , <weight number>

Unique code number. 5-digit number from 0 to 99999, increased by 1 every 400,000 registered weight numbers.

The fiscal memory can store a maximum of 400,000 weights, after which the weight number begins again at 00000 y and the number will be increased by 1.

The weight relative to an ID can be verified only if it has a unique code number equal to that currently in the fiscal memory and a weight number less than or equal to the last value received with the PID sequence.

If the machine has an ALIBI / DSD memory the printing formats add the weight identifier.

FIRST WEIGHT

GIROPES SL	
Poligono Esporda Internacional	
C/Mollo, 15-16 Tel. 972 527 212	
17469 VILANALLA	
DATE IN	20/07/2018 13:48:00
DSD [UN - ID]:	0 - 14
Pile: 1124A	
Customer: Pedro	
Product: Piedra	
Provider: Transport SA	
Destination: Girona	
1st Weight	88 kg
visitez notre site web	

SECOND WEIGHT

GIROPES SL	
Poligono Esporda Internacional	
C/Mollo, 15-16 Tel. 972 527 212	
17469 VILANALLA	
DATE IN	20/07/2018 13:48:00
DATE OUT	20/07/2018
Number weight	#4
DSD [UN - ID]:	0 - 14
DSD [UN - ID]:	0 - 15
Pile: 1124A	
Customer: Pedro	
Product: Piedra	
Provider: Transport SA	
Destination: Girona	
1st Weight:	88 kg
TARE:	88 kg
GROSS:	460 kg
SENSE NET:	OUT 372 kg
visit our website	

ONLY ENTRY

GIROPES SL	
Poligono Esporda Internacional	
C/Mollo, 15-16 Tel. 972 527 212	
17469 VILANALLA	
DATE IN	20/07/2018 13:54:00
DATE OUT	20/07/2018
Number weight	#5
DSD [UN - ID]:	0 - 16
Pile: 5235T	
Customer: Juan	
Product: Arena	
Provider: Interconstruct	
Destination: Banyoles	
1st Weight:	520 kg
TARE:	520 kg
GROSS:	* 250 kg
SENSE NET:	* IN 270 kg
visit our website	

ONLY WAY OUT

GIROPES SL	
Poligono Esporda Internacional	
C/Mollo, 15-16 Tel. 972 527 212	
17469 VILANALLA	
Date ARR	20/07/2018 13:54:00
Date DEP	20/07/2018 13:54:00
Number weight	#6
DSD [UN - ID]:	0 - 17
Pile: 6538K	
Customer: Pedro	
Product: Piedra	
Provider: Solimar	
Destination: Girona	
1st Weight:	300 kg
TARE:	300 kg
GROSS:	* 460 kg
SENSE NET:	* OUT 160 kg
visit our website	

4.6 DATABASE (CONFIGURATION)

4.6.1 DATABASE START-UP

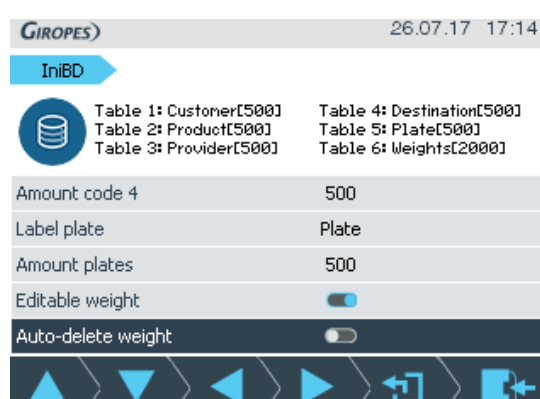
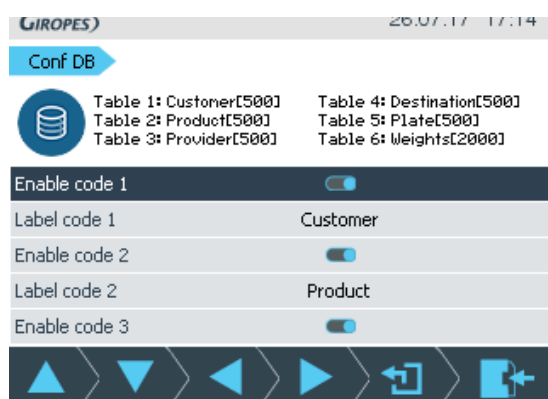
In this menu we will be able to allocate the size of the modifiable fields: client, product, provider, destination and registration, as well as how to activate or deactivate them and change the tags of said fields. We also have the editable weights and auto-erasing options, off/on.



*Note: Any changes saved in this menu entails the start-up and deletion of the database, thus, should you wish to make any changes, it must first be configured before using the device.

4.6.2 DATABASE CONFIGURATION

In this menu we will be able to activate or deactivate the different codes, change the tags of said codes or fields and activate or deactivate the options to make the weights editable and/or auto-erasing. We will not be able to alter the size of the changes as in the previous section, as this option is only possible with the corresponding start-up and deletion of the database. The changes made in this menu do not require us to start up the database and they allow the previously detailed configuration.



4.7 EQUIPMENT INFORMATION



5. DISPOSAL OF ELECTRONIC EQUIPMENT (WEEE)



For customers in the European Union:

All products that have reached the end of their life cycle must be returned to the manufacturer in order to be recycled. For information on refund processes, contact the reseller or the manufacturer.



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