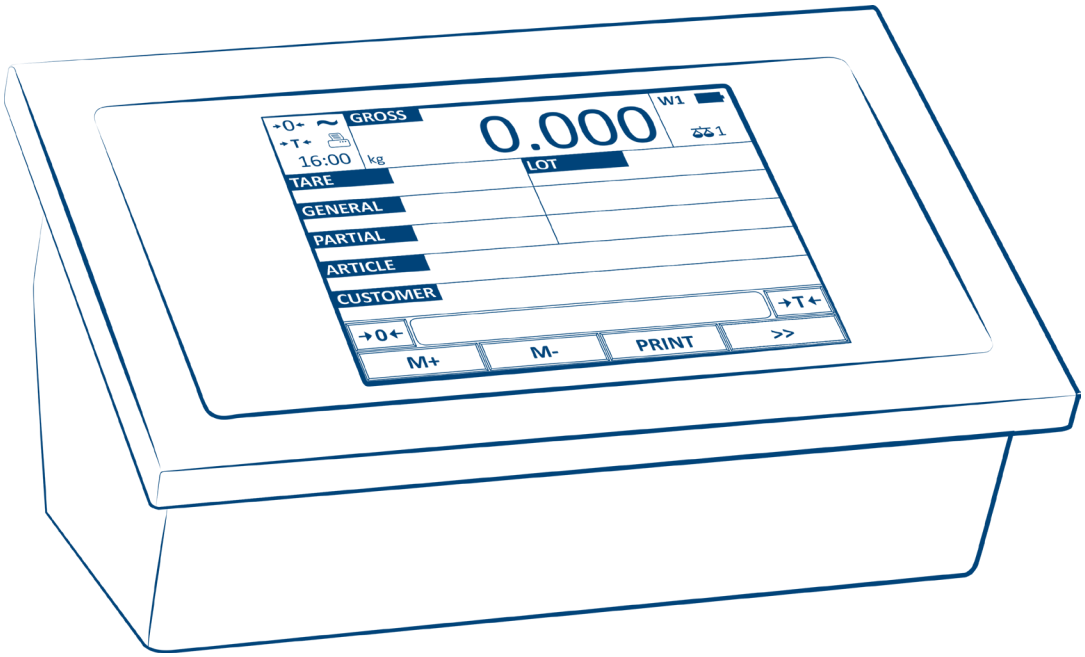
DINI ARGEO
Scales - Weighing systems

AF08GT

Program for wheels weighing systems

USER MANUAL - v5

ENGLISH



For 3590 series touch screen indicators

www.diniargeo.com

FUNCTIONS INDEX

Introduction

Basic information

Display - Main screens

Vehicle weighing functions

General weighing functions

Databases

Data Printing / Communication / Transmission

Saving the weighs

Customising the weight indicator

Managing automations

Adjustments

Identification of the metrological software of the instrument

FAQ - Frequently Asked Questions

Introduction

Dear Customer,
Thank you for choosing a DINI ARGEO weight indicator screen.
This manual is to describe operation of the weight indicator program known as AF08, which is specifically designed for weighing axles and wheels of vehicles.
The program includes all the latest vehicle weighing, centre of gravity calculation and weight distribution management functions, with special focus on being user friendly and integrating data with the company's computer system.

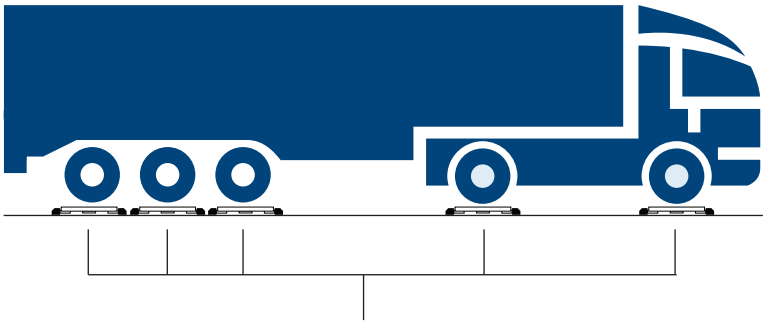
To correctly use the weighing system, refer to the **user Manual of the WWS platforms.**

Basic information

Definition of the wheel-weighing system

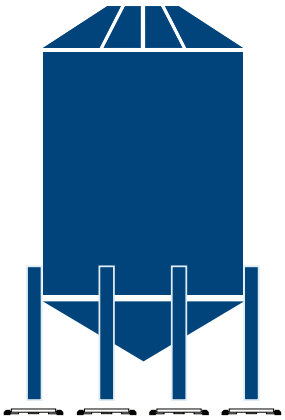
USE	A wheel-weighing system consists of as many platforms as many vehicle wheels to be weighed and is used to weigh the whole vehicle in a single step.

A wheel-weighing system provides the following benefits:
- weighing accuracy comparable to that of a weighbridge (0.05% end-of-scale);
- less expensive than a weighbridge and no masonry work is required;
- display and printing of the weight of the single wheels, all combinations (axles, right side, left side, front, back, etc.) and the total weight of the vehicle;
- calculation of the centre of gravity of the vehicle (depending on the setup).

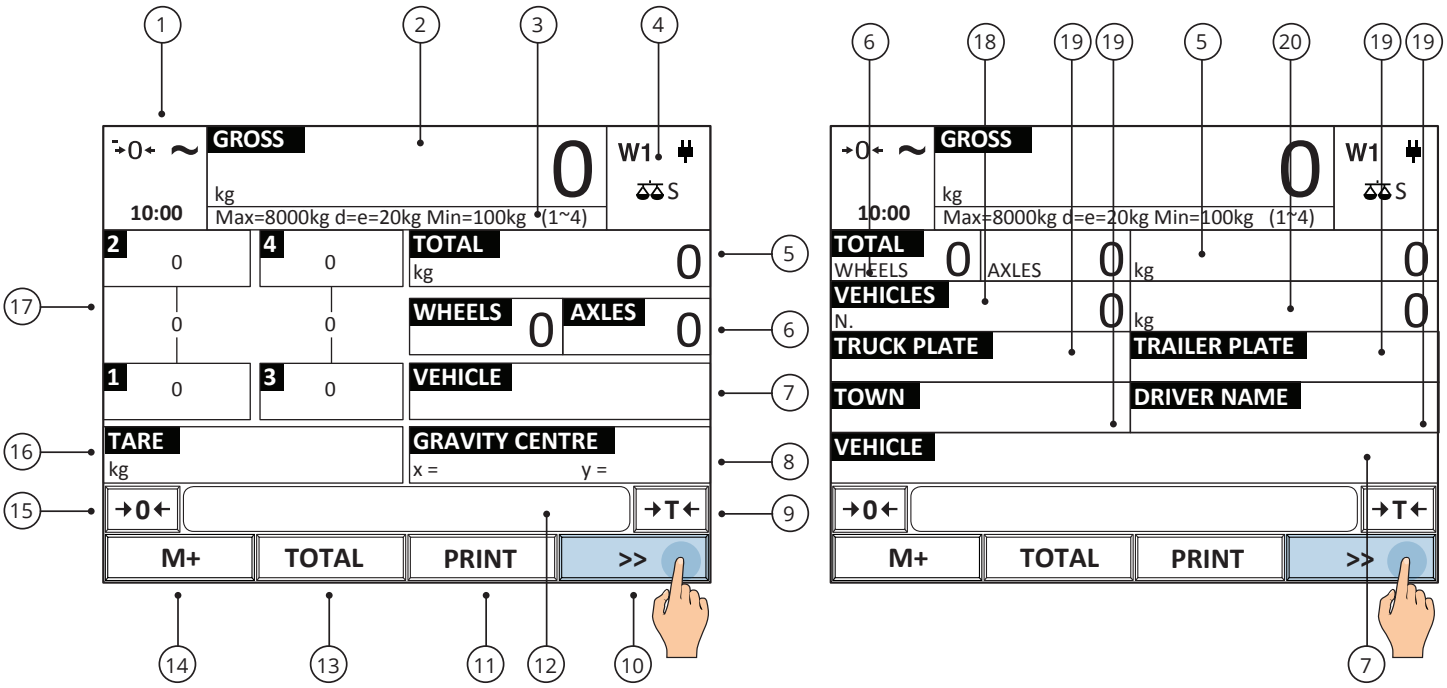


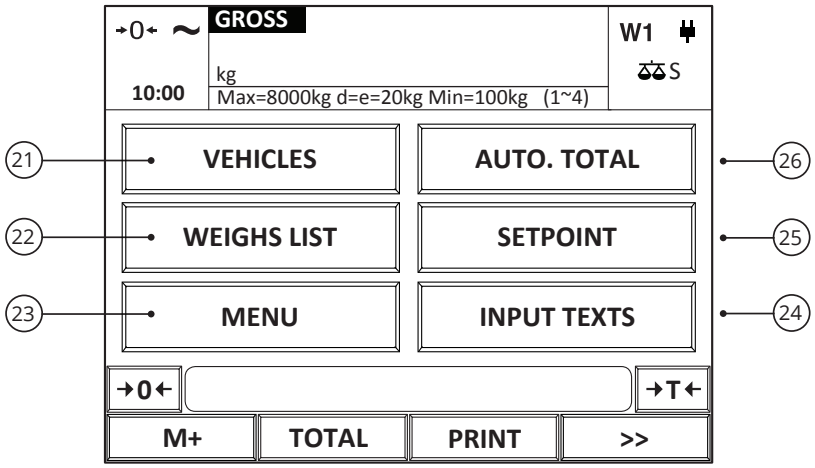
WHEEL WEIGHING PLATFORMS

It is also possible to carry out weighing not only of vehicles, but of different structures, in order to know the centre of gravity and weight distribution on each support angle of the object.



Display - Main screens





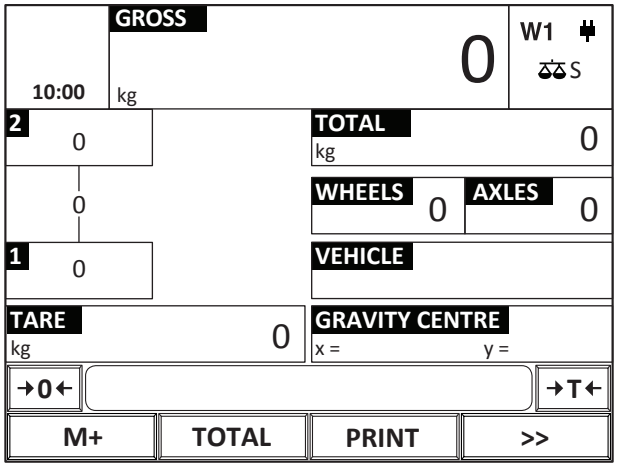
Button	Function
(1)	Setting date and time.
(2)	Net / gross weight display / zoom.
(3)	Electronic metric label. The metric label is not contained in the screens illustrated in the subsequent pages for further simplicity
(4)	Scale change.
(5)	Shows / prints the total accumulated of the current weighing.
(6)	Show the quantity of wheels / axles totalised. Prints the total accumulated of the current weighing.
(7)	Vehicle selection.
(8)	Setting the platform coordinates / displaying the centre of gravity.
(9)	Semi-automatic tare.
(10)	Screen change.
(11)	Simple printing (no accumulation).
(12)	Message bar.
(13)	Prints the total and closes the vehicle's weigh.
(14)	Totalisation.
(15)	Weight reset.
(16)	Tare value/setting manual tare (PT).
(17)	Weight of each individual scale and weight of each axle / change of the number of active scales.
(18)	General total number of weighs.
(19)	Freely entered text.
(20)	General total: weight.
(21)	Filling in/editing vehicle database.
(22)	Weighs list.
(23)	Additional function menu.
(24)	Filling in / editing free text database.
(25)	Weight thresholds / setpoint configuration.
(26)	Setting of the partial total automatic printing.

Symbol	Description
→0←	The scale is unloaded and at zero (gross).
~	The weight is unstable.
	Printing in progress / printer anomalies.
W1 W2 W3	Indicate the range of active weighing.
	Powered / Battery level
1 2 3 4 5 6 7 8	Active scale.
S	Sum of active scales.

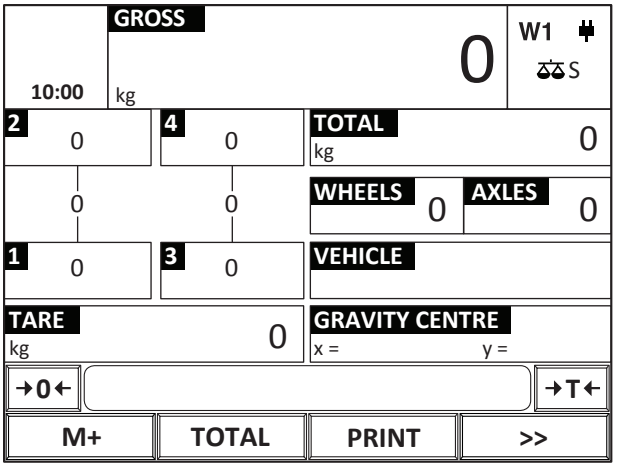
Alternatives

The number of platforms connected, determines the layout of the weighing screen:

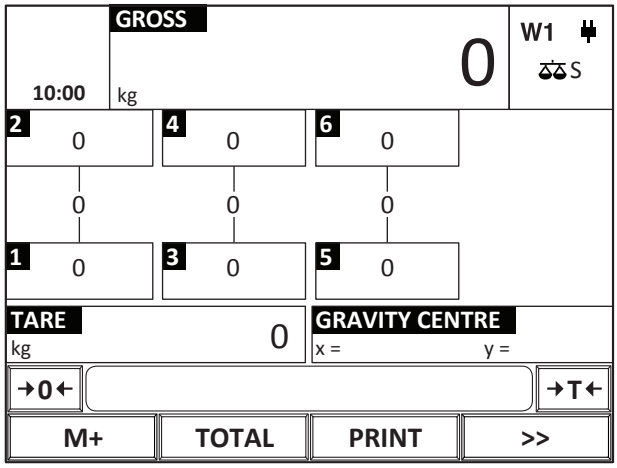
Two platforms.



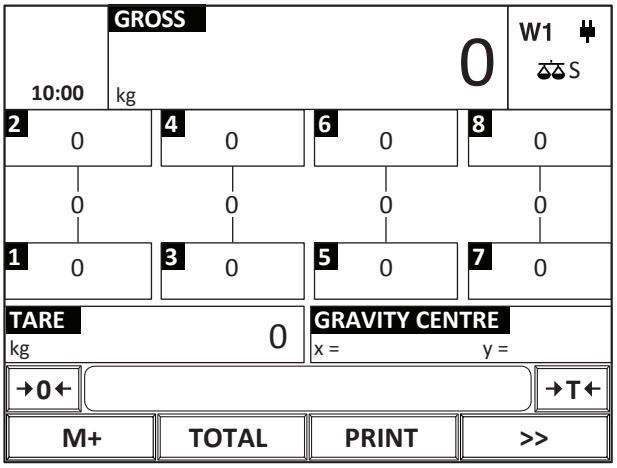
Four platforms.



Six platforms.

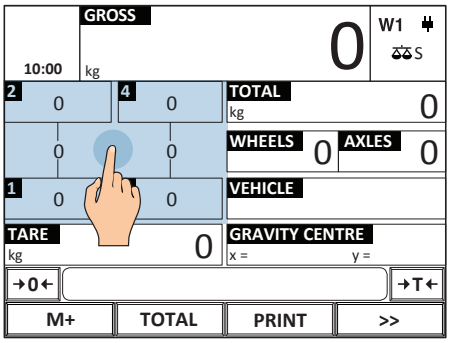


Eight platforms.

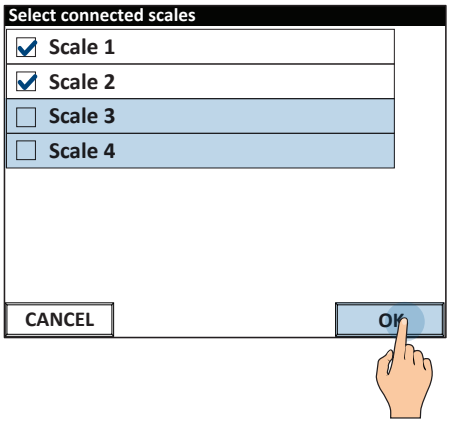


Set the number of active scales

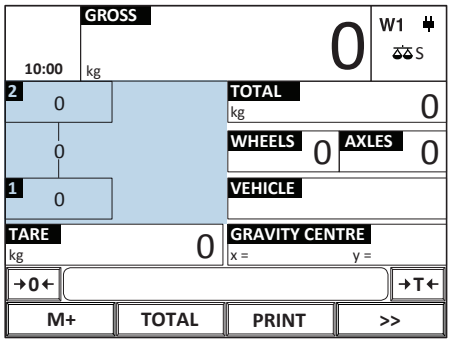
1.



2.



3.

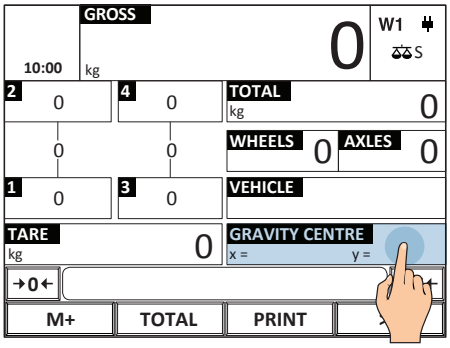


i

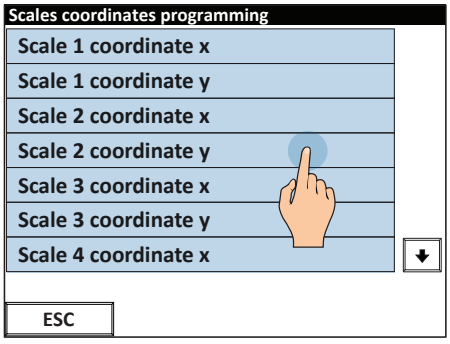
This procedure enables to select the platforms displayable .

Centre of gravity calculation

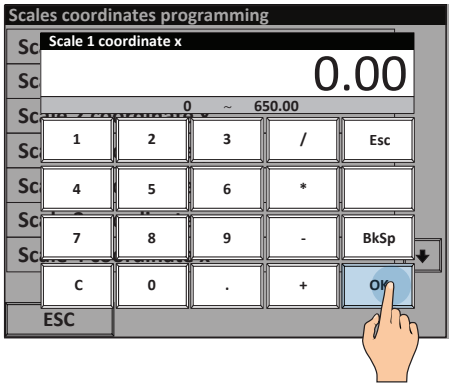
1.



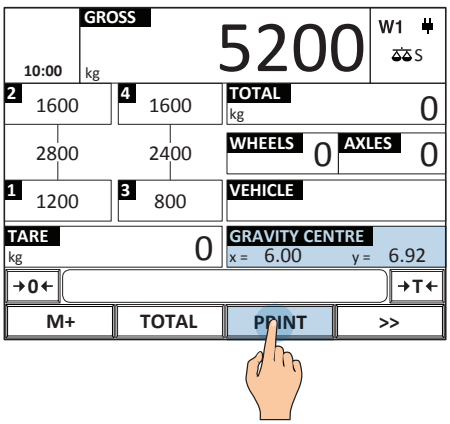
2. Set the coordinates of the individual platforms (information table at page **A-2**)



3.



4. The centre of gravity is calculated automatically at a stable weight.



5.

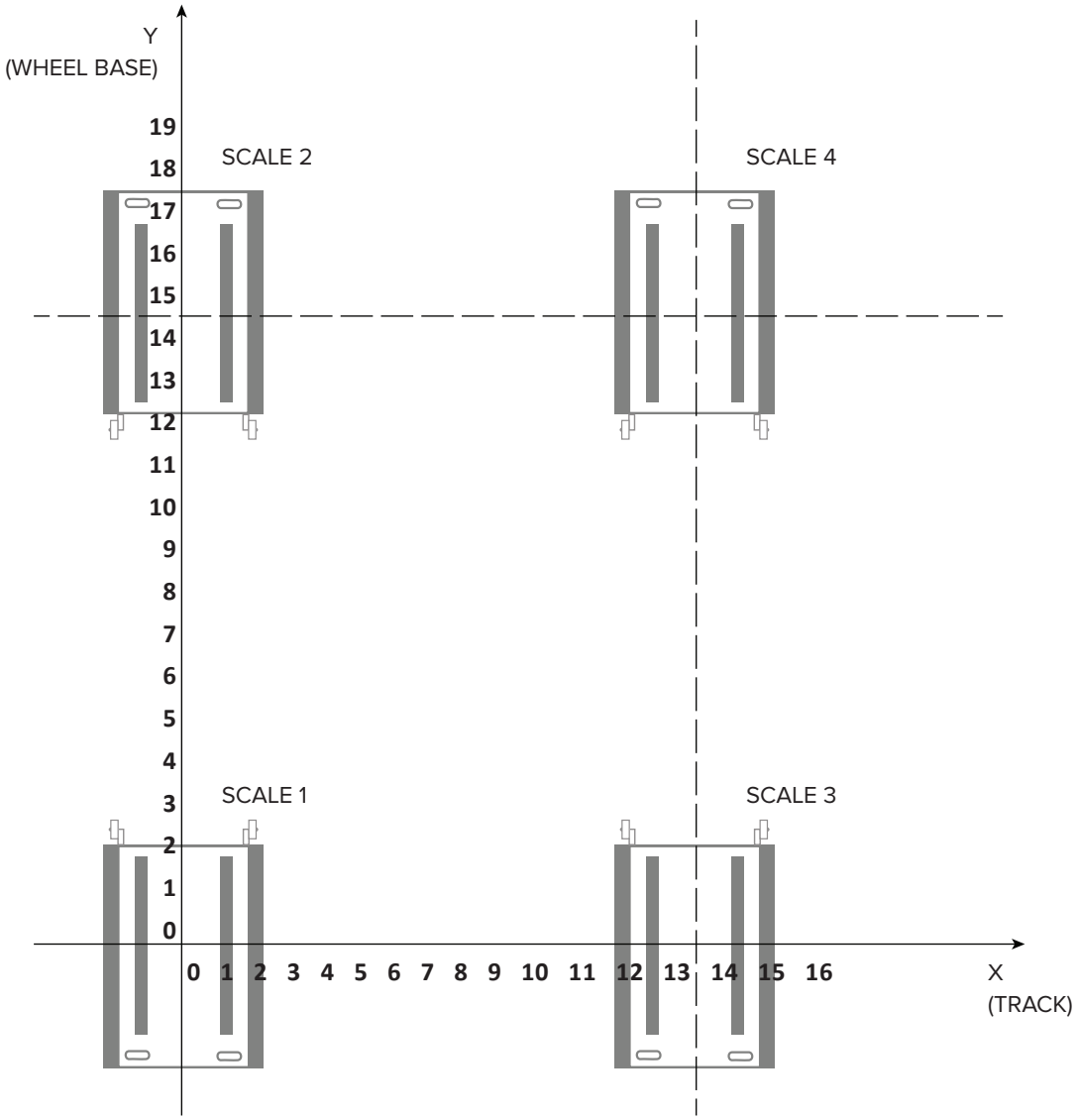
14/06/17 10:00

WHEEL 1	1200kg
WHEEL 2	1600kg
AXLE 1	2800kg
WHEEL 3	800kg
WHEEL 4	1600kg
AXLE 2	2400kg

GROSS	5200kg
TARE	0kg
NET	5200kg

GRAVITY CENTRE
x= 6.00 m y= 6.92 m

6.



SCALE 1: X.WhEL. 1: 000,00
Y.WhEL. 1: 000,00

SCALE 2: X.WhEL. 2: 000,00
Y.WhEL. 2: 015,00

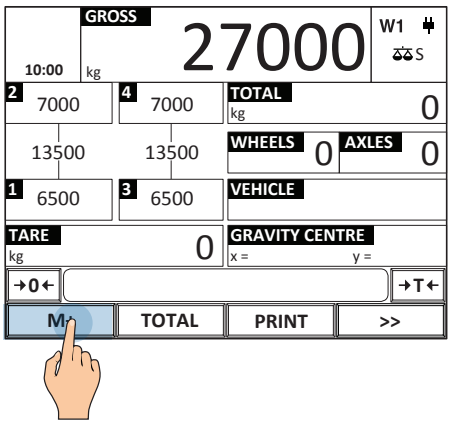
SCALE 3: X.WhEL. 4: 013,00
Y.WhEL. 4: 000,00

SCALE 4: X.WhEL. 3: 013,00
Y.WhEL. 3: 015,00

Axles / wheels totalisation

1.

2.



3.

TRUCK PLATE

TRAILER PLATE

TOWN

DRIVER NAME

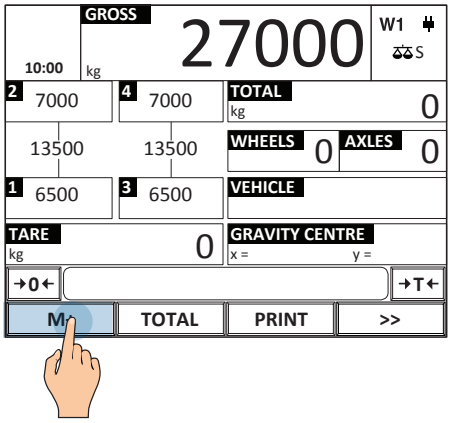
14/06/17 10:00am

WHEEL	1	6500kg
WHEEL	2	7000kg
AXLE	1	13500kg
WHEEL	3	6500kg
WHEEL	4	7000kg
AXLE	2	13500kg

Print of the axle total accumulated

1.

2.



3.

TRUCK PLATE

TRAILER PLATE

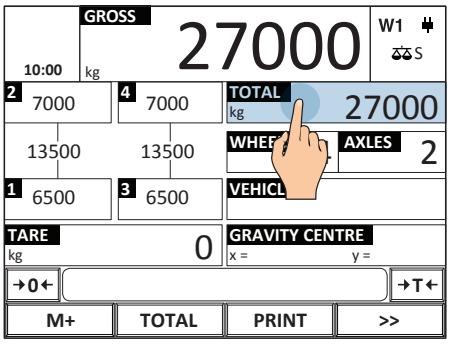
TOWN

DRIVER NAME

14/06/17 10:00am

WHEEL	1	6500kg
WHEEL	2	7000kg
AXLE	1	13500kg
WHEEL	3	6500kg
WHEEL	4	7000kg
AXLE	2	13500kg

4.



5.

TRUCK PLATE

TRAILER PLATE

TOWN

DRIVER NAME

14/06/17 10:00am

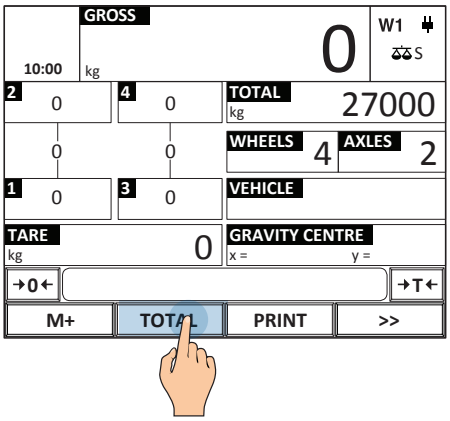
WHEEL	1	6500kg
WHEEL	2	7000kg
AXLE	1	13500kg
WHEEL	3	6500kg
WHEEL	4	7000kg
AXLE	2	13500kg

GROSS	27000kg
PT	0kg
NET	27000kg

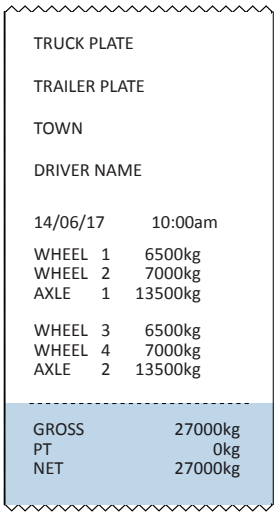
Print of the total and closing the weighing

1. Perform an axle totalisation (reference at page **A-3**).

2.



3. Printing is performed, weighing is closed and another vehicle can be weighed.

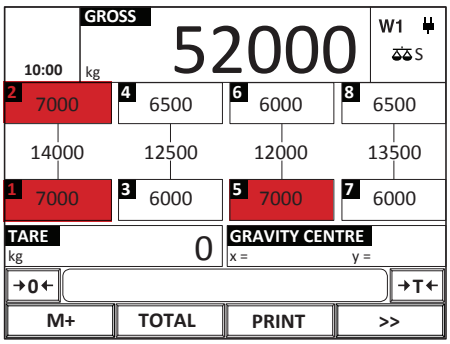


Weight management on display

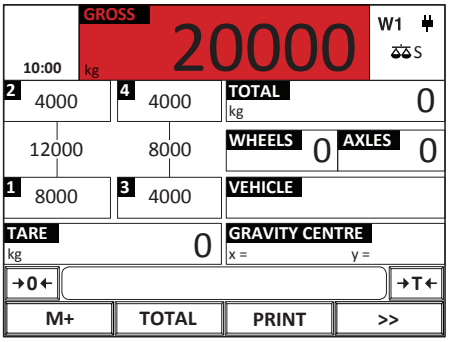
USE	Enables immediate feedback by means of a light indication of the vehicle's weight.
ACTIVATION	Requires advanced configuration.

1.

2. The wheels exceeding the threshold set are highlighted in the preset colour

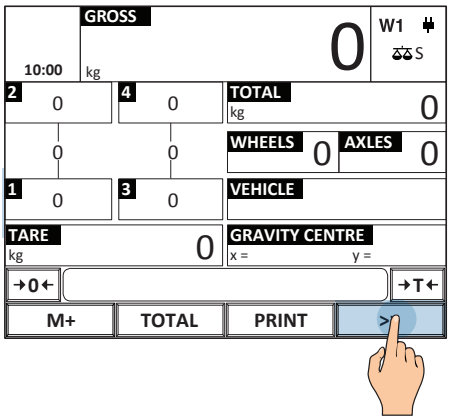


3. The same type of assessment may be applied to the total weight of the vehicle.

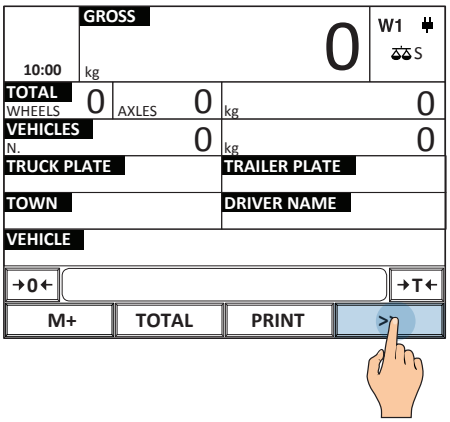


Set the maximum total weight or of each wheel for a specific vehicle

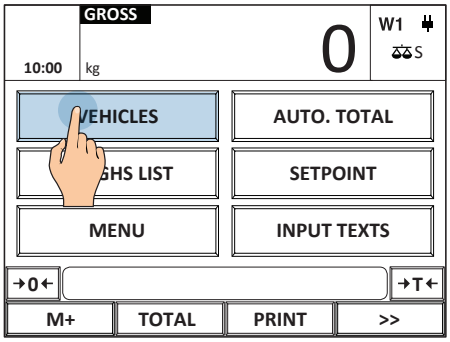
1.



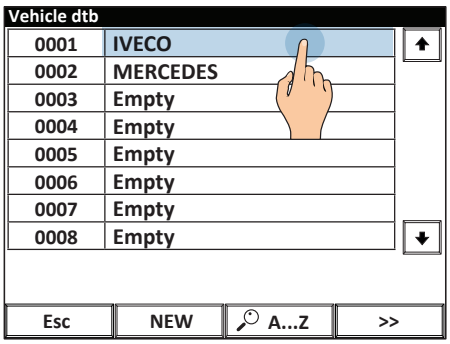
2.



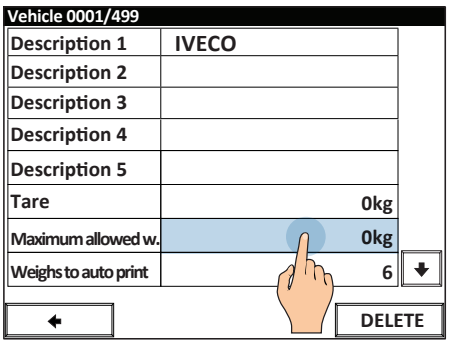
3.



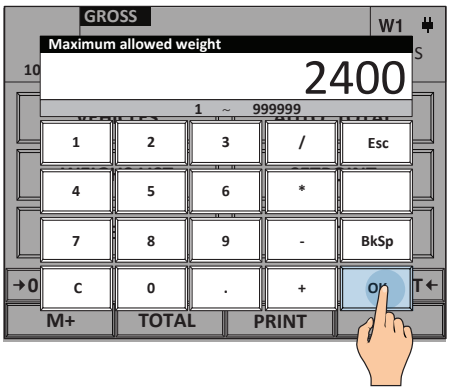
4.



5.



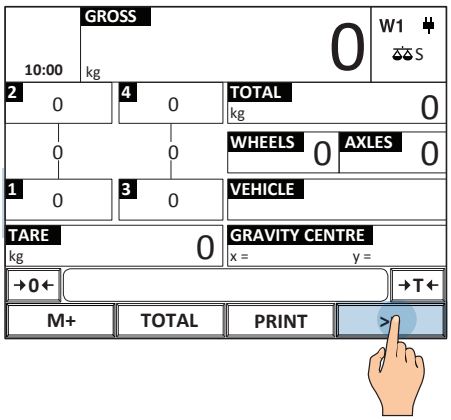
6.



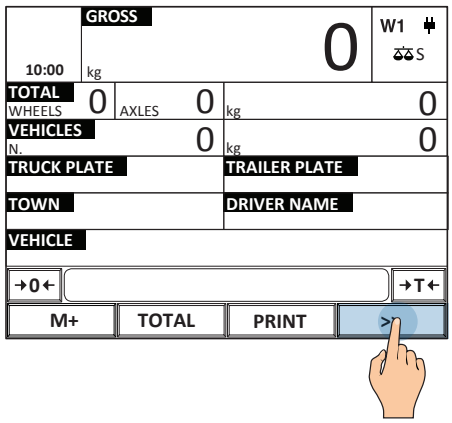
Set the desired value based on the type of configuration (overload signal on wheels / total weight).
E.G.:
- If the check is on the wheels, put the maximum acceptable value for each wheel
- If the check is on the total weight, write the acceptable total weight for the entire vehicle

Set the wheel setpoint values individually

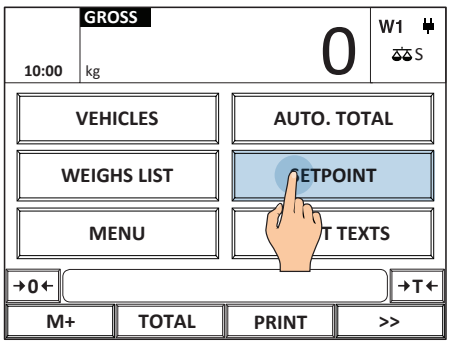
1.



2.



3.



4.

Outputs setpoint setting

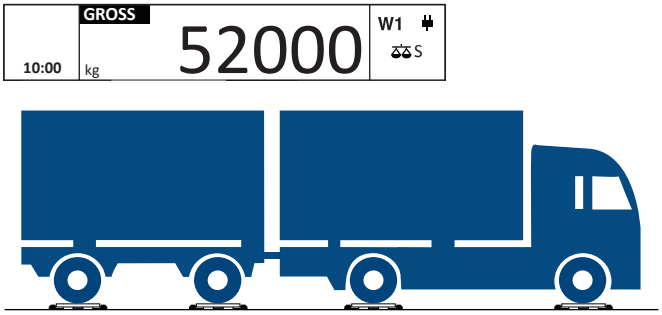
Output	Value ON	Value OFF
1	2400 kg	
2	1500 kg	
3	2000 kg	
4	1500 kg	
5	1500 kg	
6	1500 kg	
7	1500 kg	
8	1500 kg	

Esc

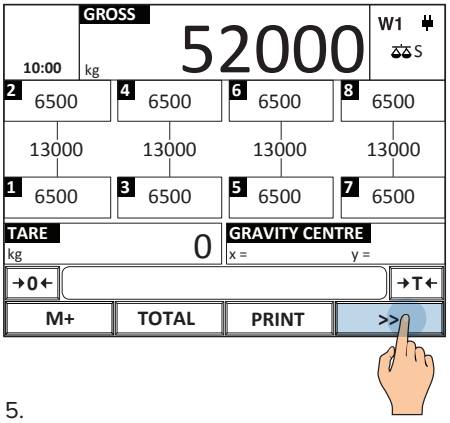
Weighing with selection of databases

USE	Thanks to the database, it is possible to identify the vehicle, the traction unit plate, the half trailer plate, the location and the driver name for full weighing traceability.
ACTIVATION	Standard active function.

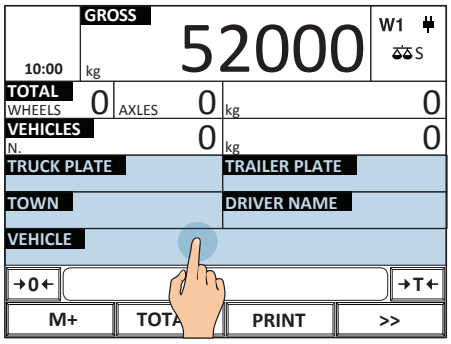
1.



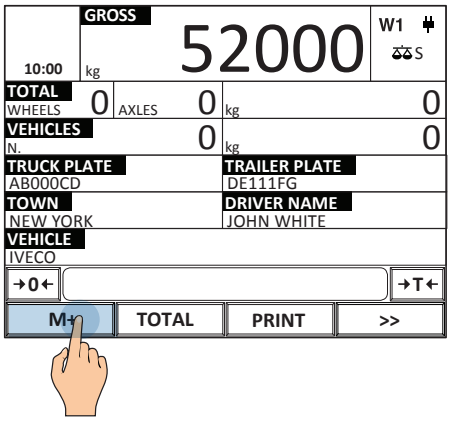
2.



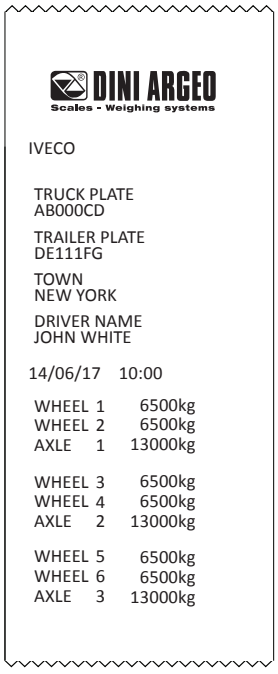
3. Select / compile the desired database.



4.



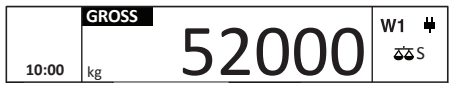
5.



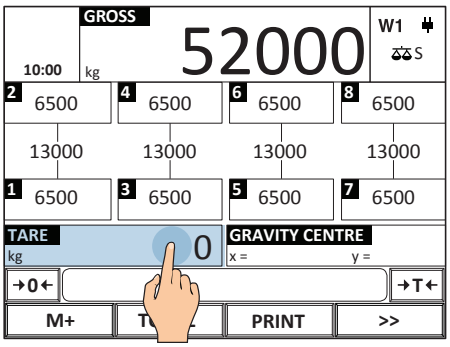
Weighing with pre-set tare insertion

USE	Enables to enter the known tare value of the vehicle in order to print the net weight.
ACTIVATION	Standard active function.

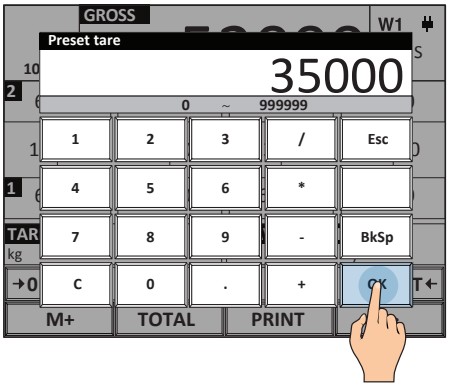
1.



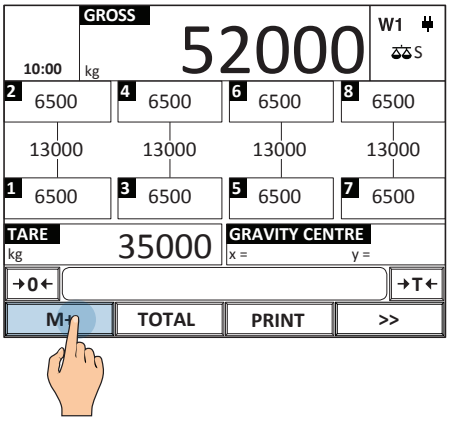
2.



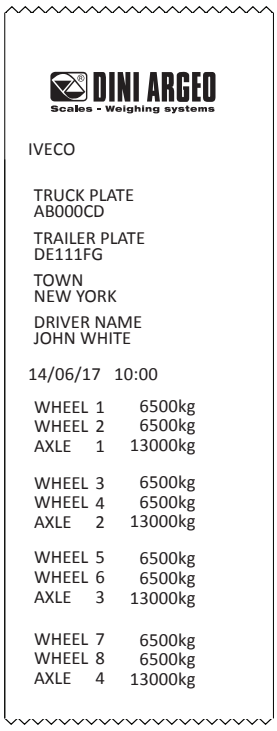
3. Enter the weight



4.



5.



DINI ARGEO
Scales - Weighing systems

IVECO

TRUCK PLATE
AB000CD
TRAILER PLATE
DE111FG
TOWN
NEW YORK
DRIVER NAME
JOHN WHITE

14/06/17 10:00

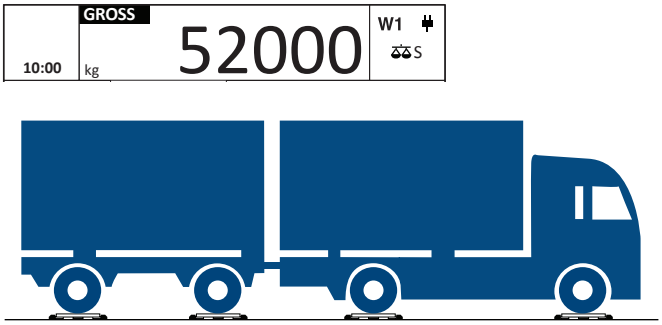
WHEEL 1	6500kg
WHEEL 2	6500kg
AXLE 1	13000kg
WHEEL 3	6500kg
WHEEL 4	6500kg
AXLE 2	13000kg
WHEEL 5	6500kg
WHEEL 6	6500kg
AXLE 3	13000kg
WHEEL 7	6500kg
WHEEL 8	6500kg
AXLE 4	13000kg

i

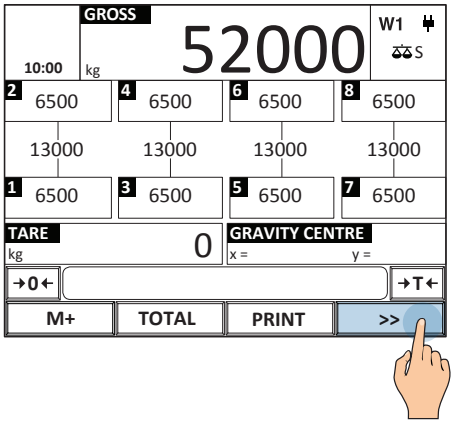
By performing total printing (page **A-3** or **A-4**) the net, gross weight and tare entered are displayed.

Bringing up the function from the menu

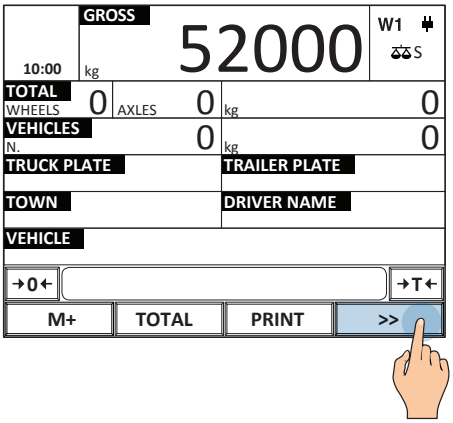
1.



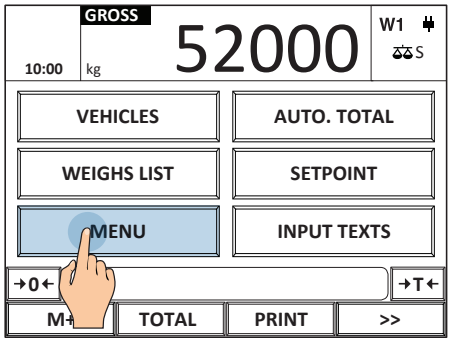
2.



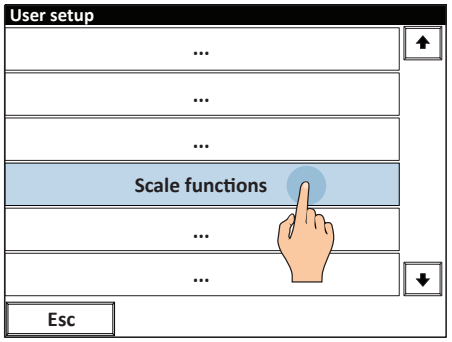
3.



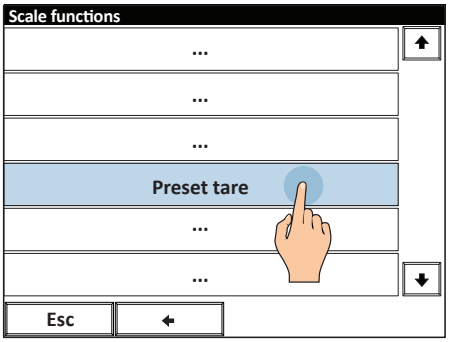
4.



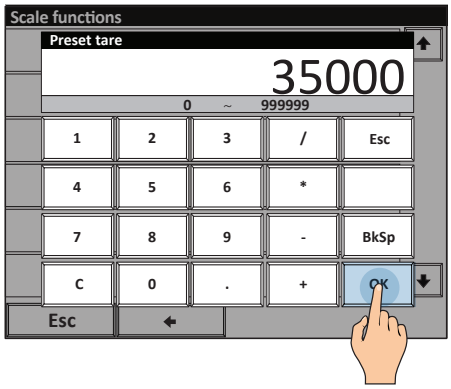
5.



6.



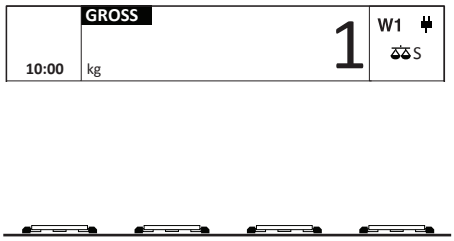
7.



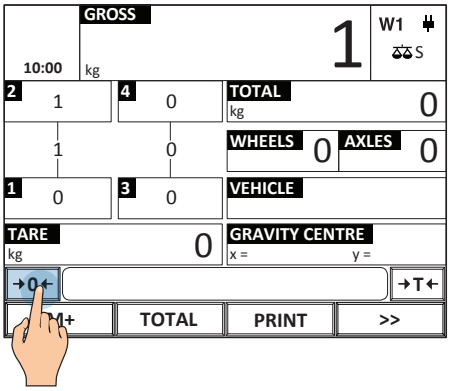
Weight reset

USE	Lets you reset the zero before weighing, for optimal weighings.
APPLICATIONS	General weighing.
ACTIVATION	Standard active function.

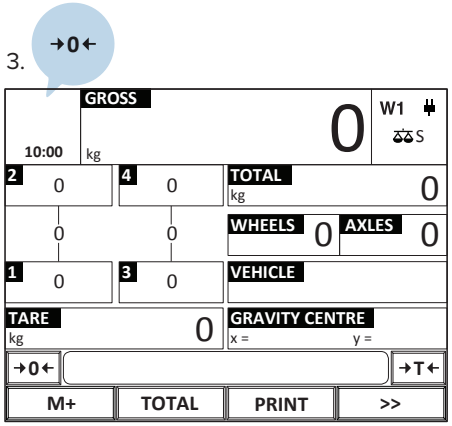
1.



2.



3.



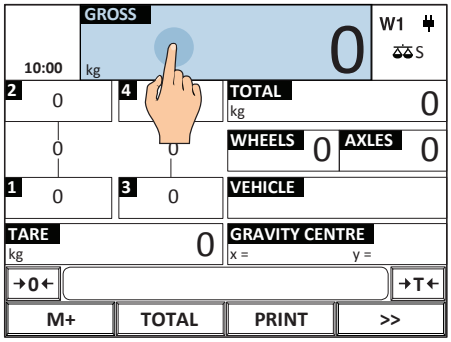
i

The allowed zero setting range is equal to +/-2% of the maximum capacity of the system.
Reset is performed as default on all scales connected.

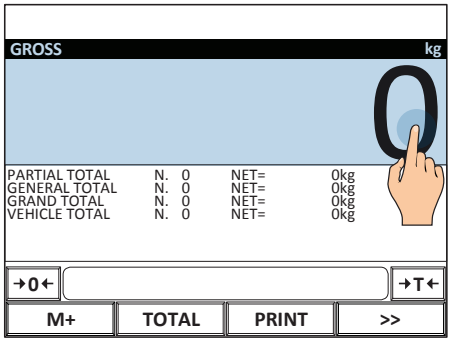
Weight view zoom

USE	You can enlarge the weight at any time for comfortable reading even at a great distance.
APPLICATIONS	General weighing.
ACTIVATION	Standard active function.

1.



2.

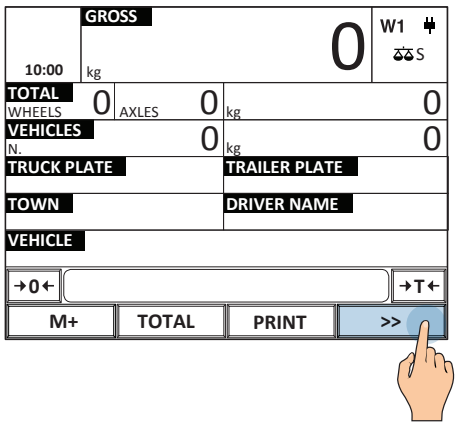


Calculator

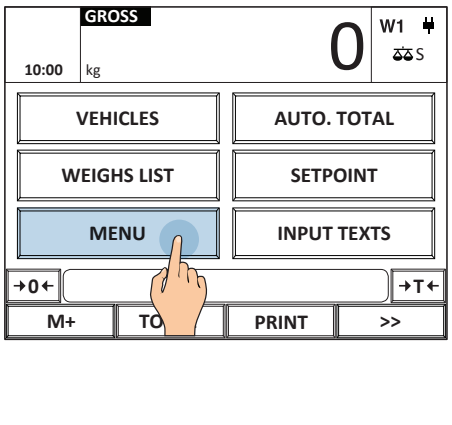
USE	Perform operations and print the total.
ACTIVATION	Standard active function.

To call up the generic "calculator" function:

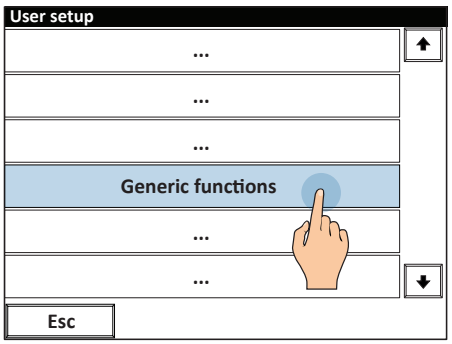
1.



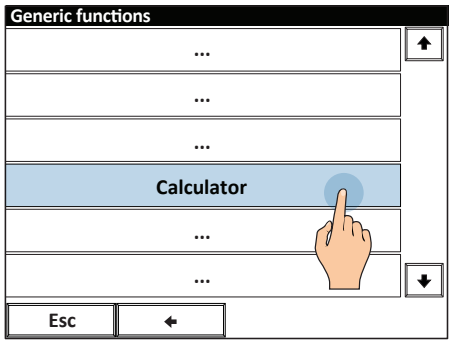
2.



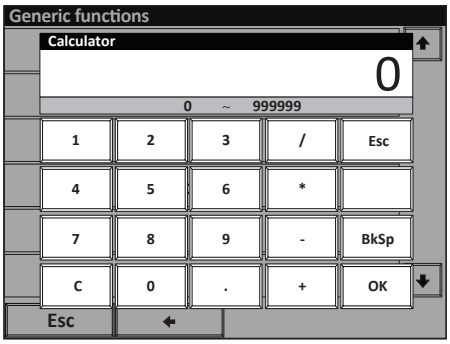
3.



4.



5.

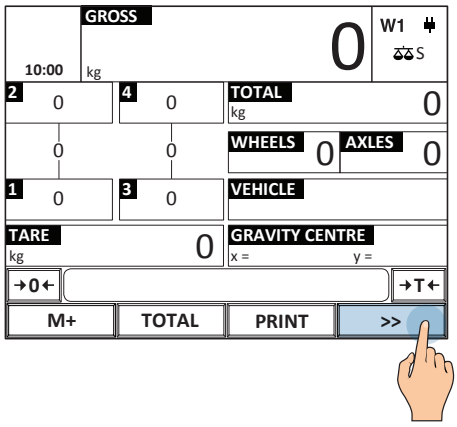


500 vehicles database

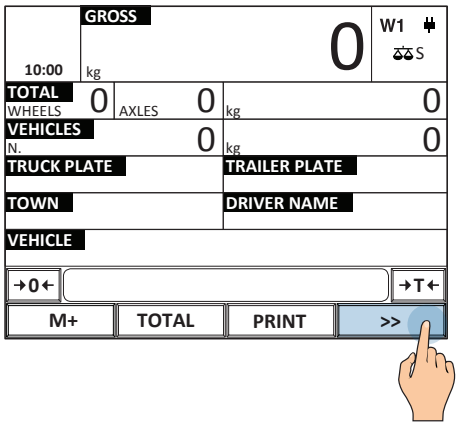
USE	Lets you store up to 500 different vehicles.
APPLICATIONS	Traceability / Order management.
ACTIVATION	Standard active function

How to fill in the database

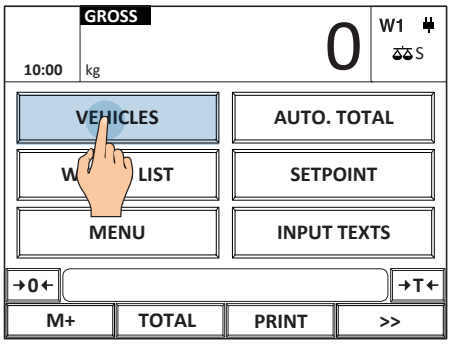
1.



2.



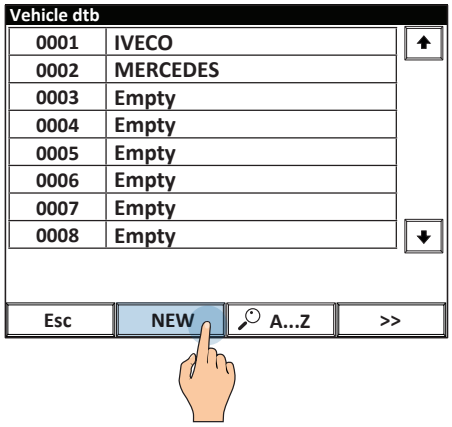
3.



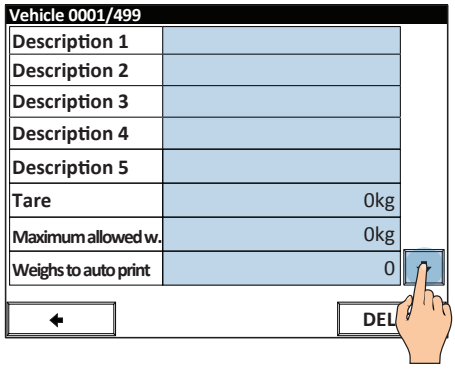
Once inside the vehicle database fill-in menu you can:

Enter a new vehicle

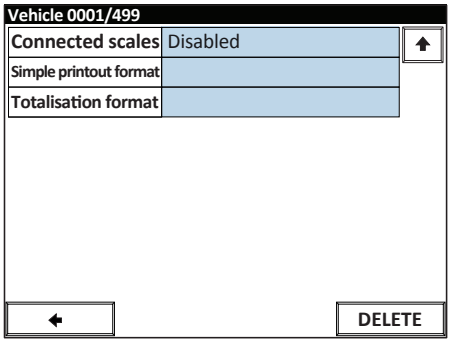
1.



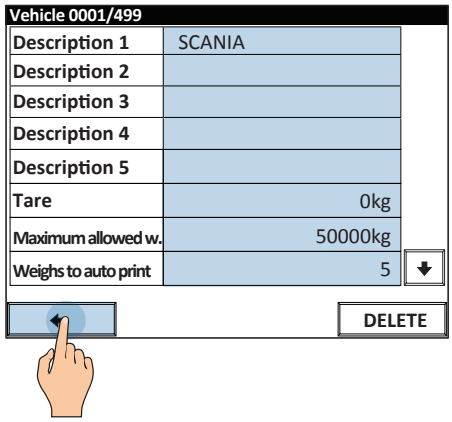
2. Fill in the fields.



3.

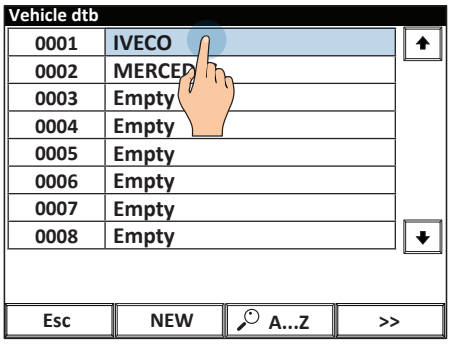


4. Saving is automatic

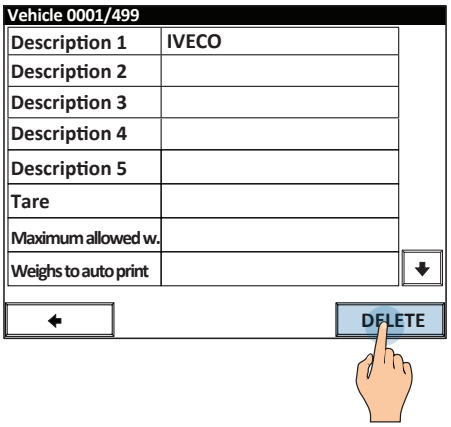


Delete a vehicle

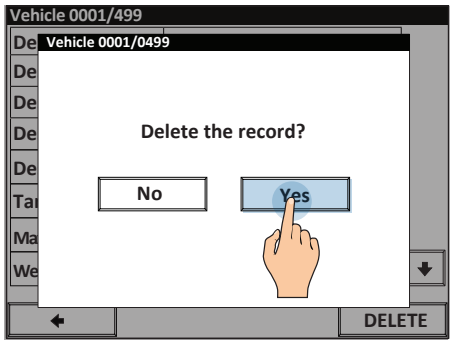
1.



2.

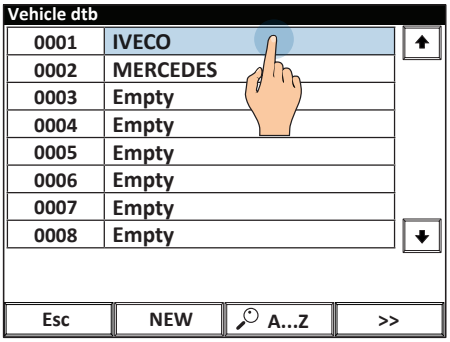


3.

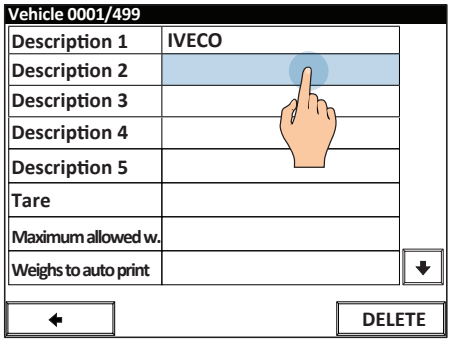


Edit an existing vehicle

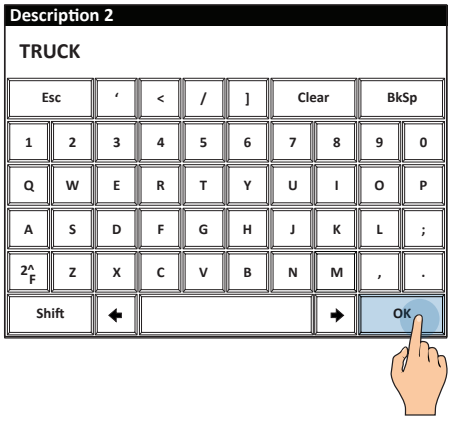
1.



2.

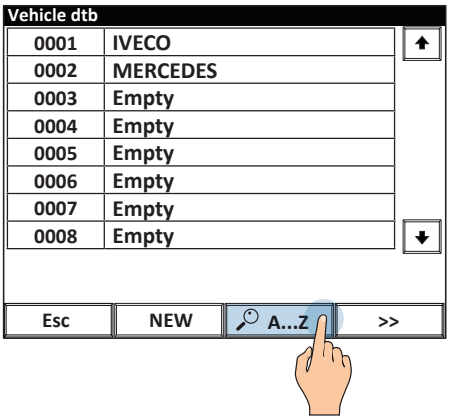


3. Saving is automatic

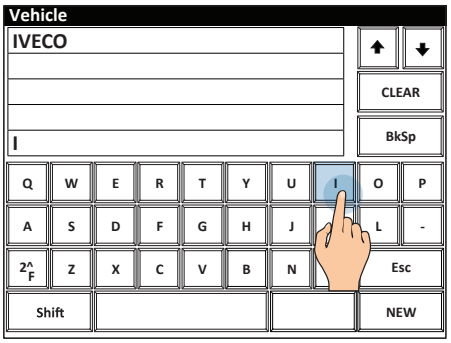


Look for a vehicle to edit / delete via alphabetic selection.

1.

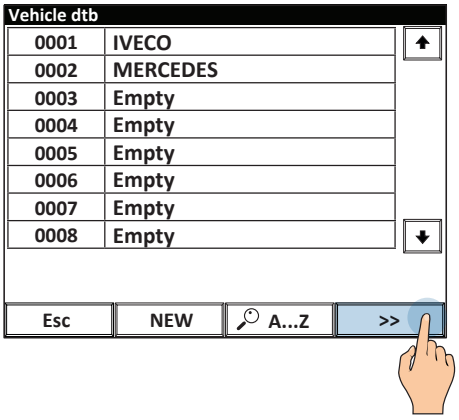


2.

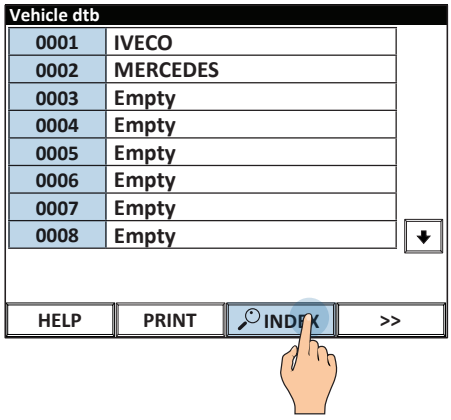


Look for a vehicle by its numeric index

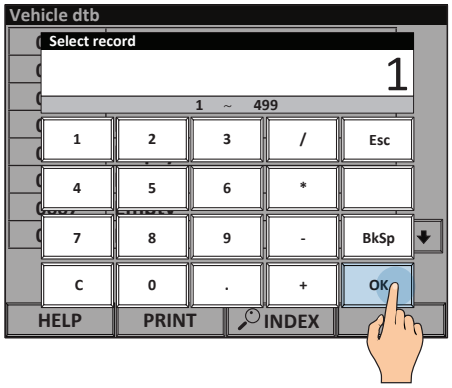
1.



2.

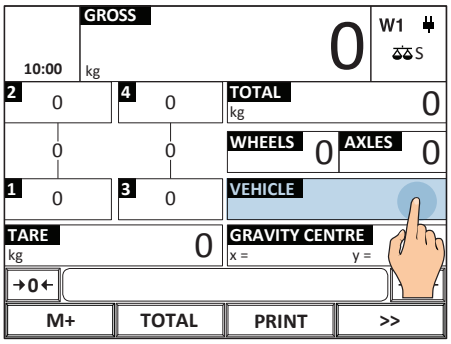


3. Enter the index of the vehicle and press OK to confirm

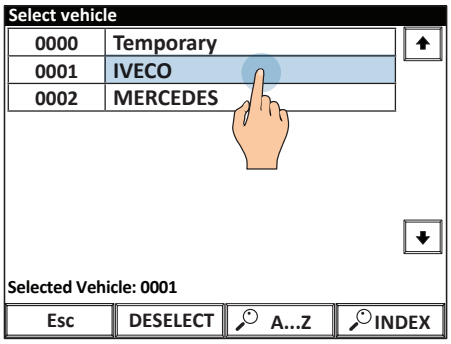


Select a vehicle

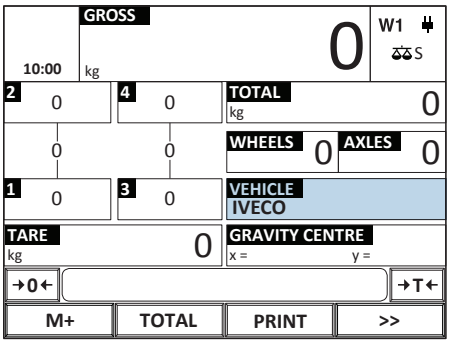
1.



2.

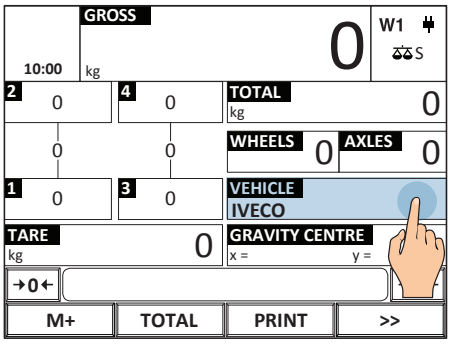


3.

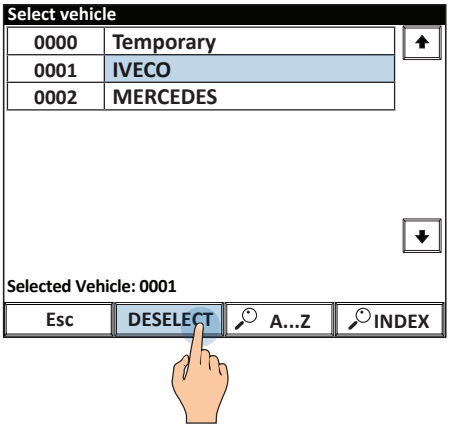


Clear the current vehicle

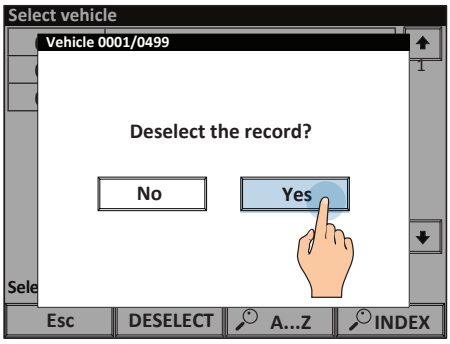
1.



2.



3. Press YES to clear the vehicle



Vehicles database fields

Alphanumeric descriptions of 20 characters each which identify the vehicle.

Tare associated to the vehicle.

Maximum weight permitted (wheels/total weight of the vehicle).

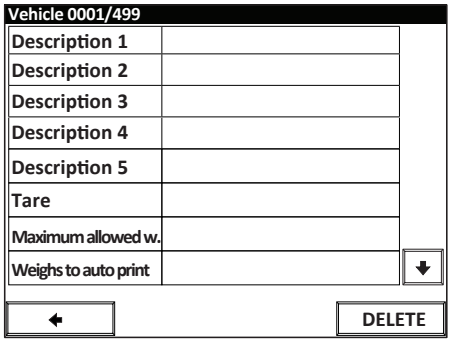
Number of totalisations after which the partial total will be printed.

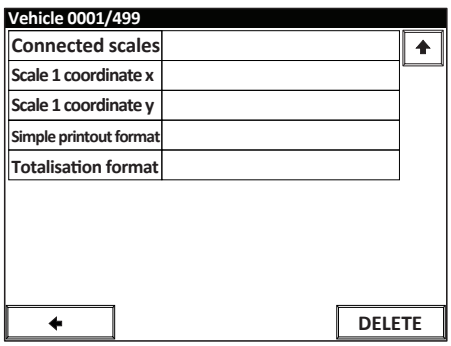
Sets the scales which are activated when selecting the vehicle.

Sets the coordinates of the platforms for this vehicle.

Enables to set the printing format that can be paired to the simple print for this vehicle.

Enables to set the printing format that can be paired to the totalisation for this vehicle.



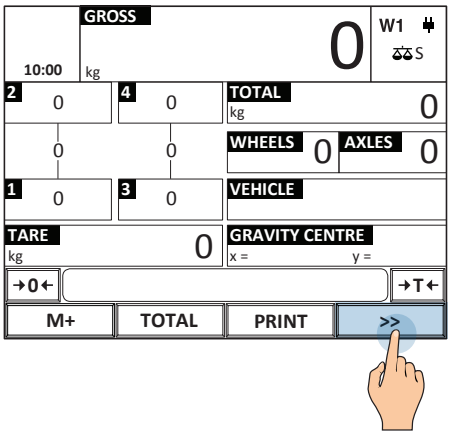


Entering weighing identifying text

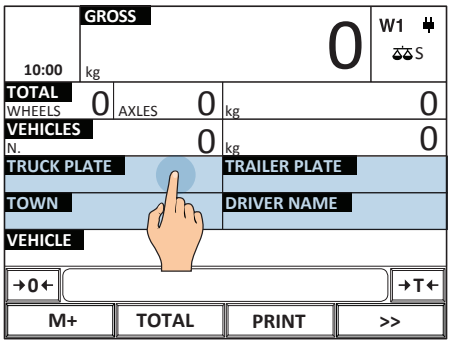
USE	Up to 15 texts can be entered to indicate the location, driver or any required data. This data may be shown in the printout, transmitted to the IT system or saved on USB devices.
APPLICATIONS	Traceability of weighings.
ACTIVATION	The free texts “TRUCK PLATE”, “TRAILER PLATE”, “TOWN” and “DRIVE NAME” are active as per standard. Additional text activation (up to 15) requires advanced configuration. Activating an automatic entry sequence (up to 10 consecutive operations) requires advanced configuration (see page F-1).

The indicator is standard supplied with four quick retrieve ID texts:

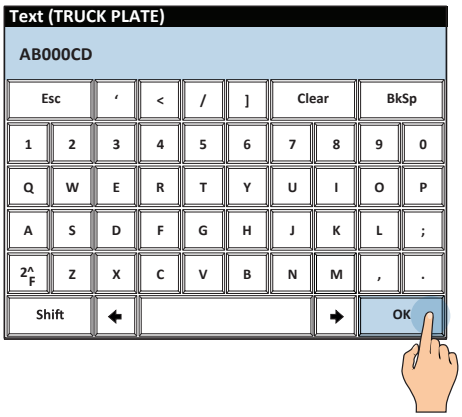
1.



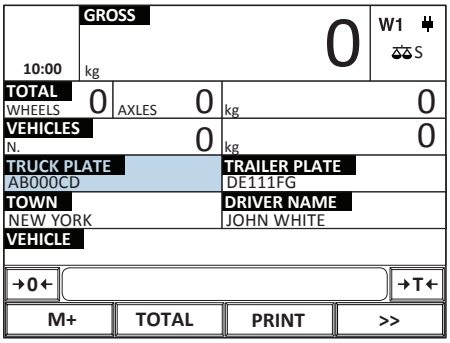
2.



3. Enter free texts in sequence

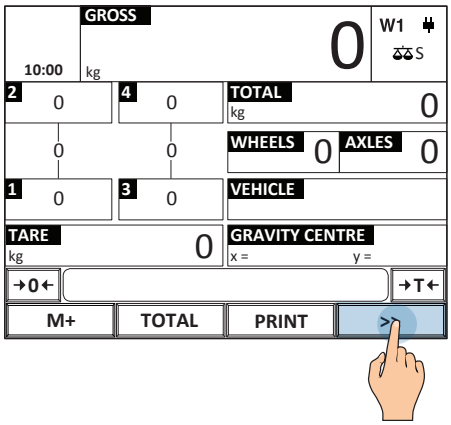


4.

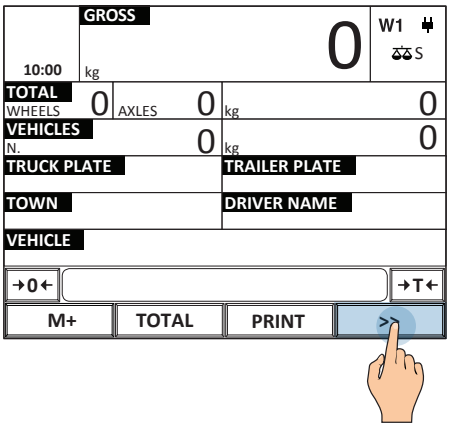


How to access the complete list of texts

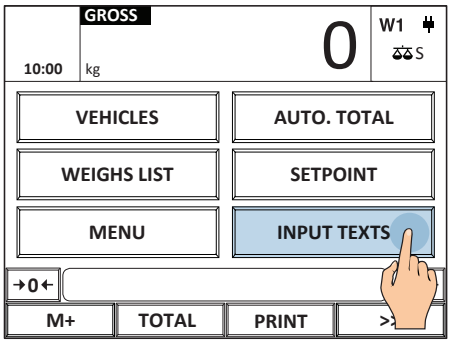
1.



2.



3.



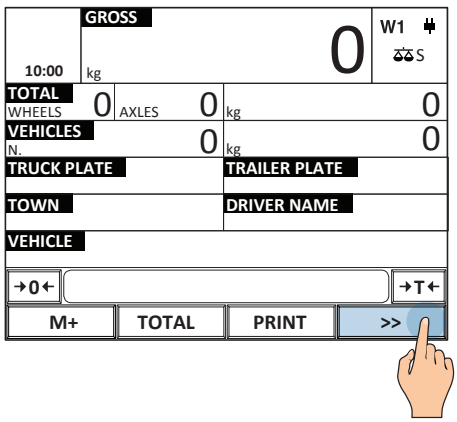
i Additional text activation (up to 15) requires advanced configuration.

i If the texts must be completed at each weighing, it is possible to create an automatic sequence for the operator's convenience (see page F-1).

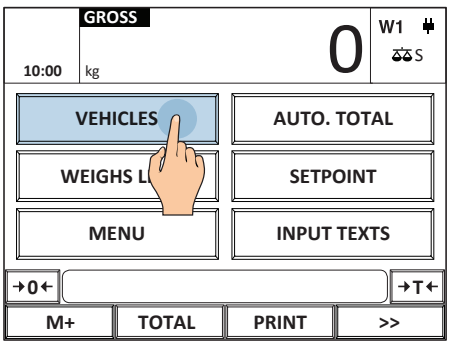
Password to access the databases

USE	Allows you to protect database entry and editing
ACTIVATION	Activation requires advanced configuration.

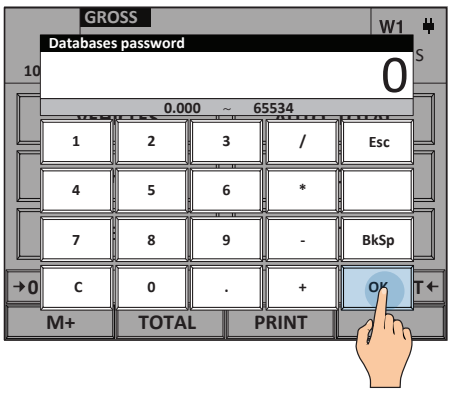
1.



2.

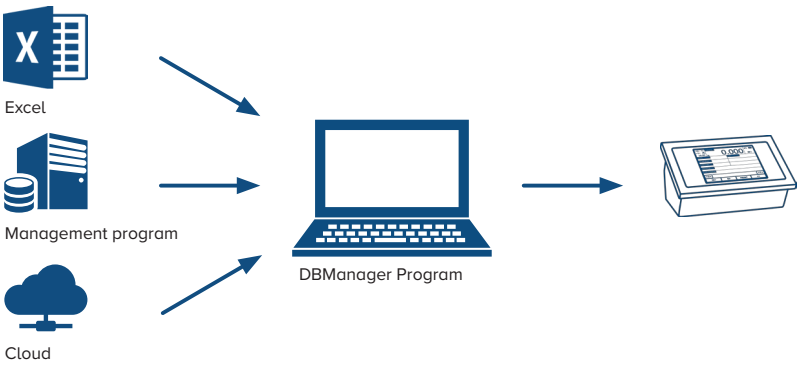


3. Type the password and press OK.



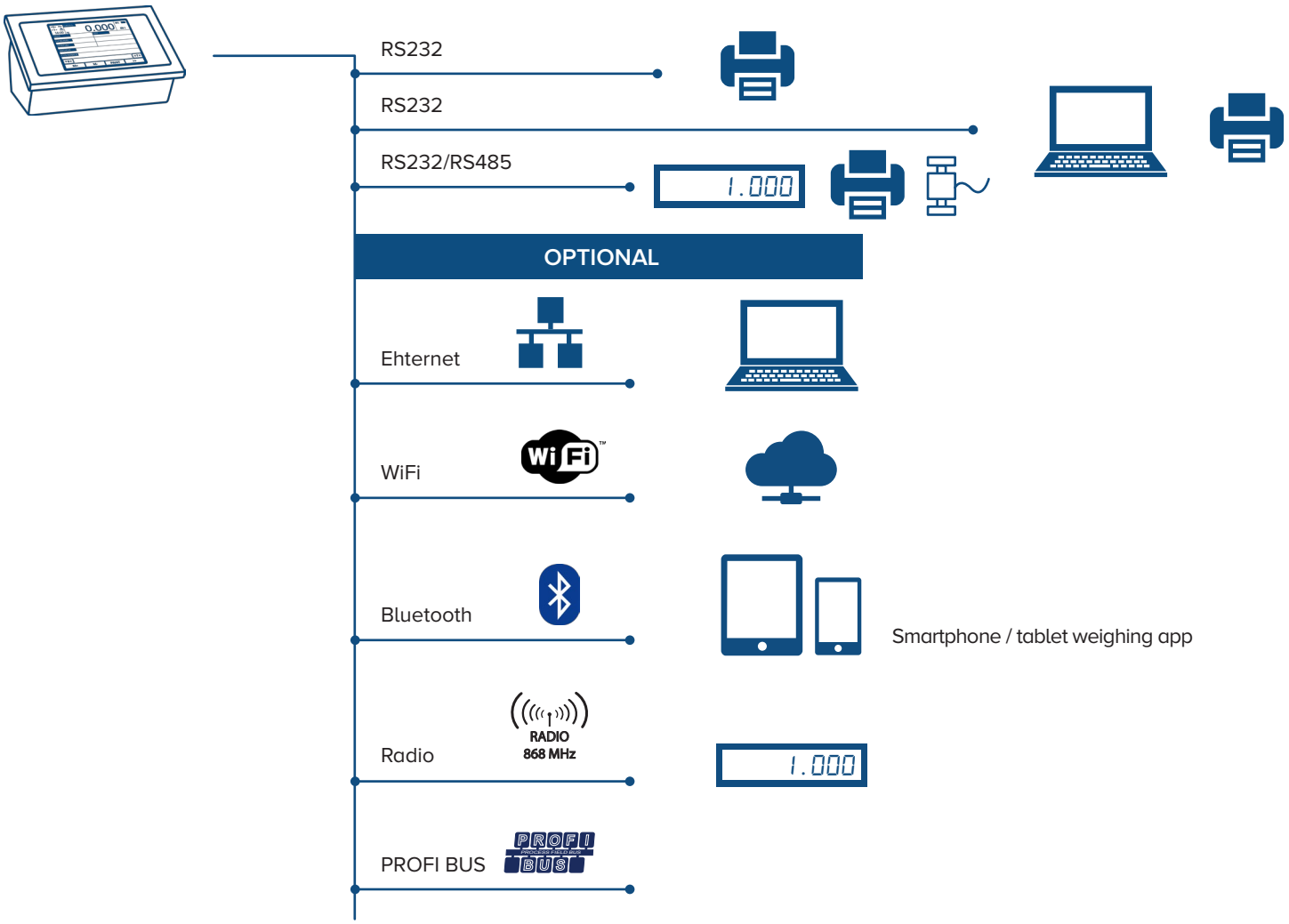
Filling in database from PC with “DBManager”

USE	Allows you to quickly fill in the scale databases from PC, with the possibility of importing data from Excel files or directly from management program.
APPLICATIONS	Quick scale database update.
ACTIVATION	Activation requires advanced configuration.



Data Printing / Communication / Transmission

The indicator has 3 serial ports to communicate with one or more printers / label machines, PCs and weight repeaters. Alternatively, you can expand communication with the company IT system, tablet and Smartphone, cloud or PLC by adding the available optional interfaces:



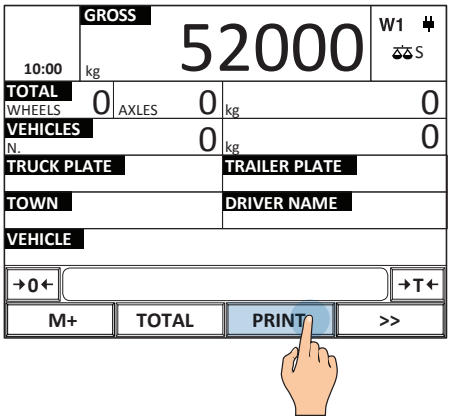
The communication protocol can be fully customised to easily integrate the weight indicator into existing systems that use other brand scales without having to change the programs being used.

Simple print

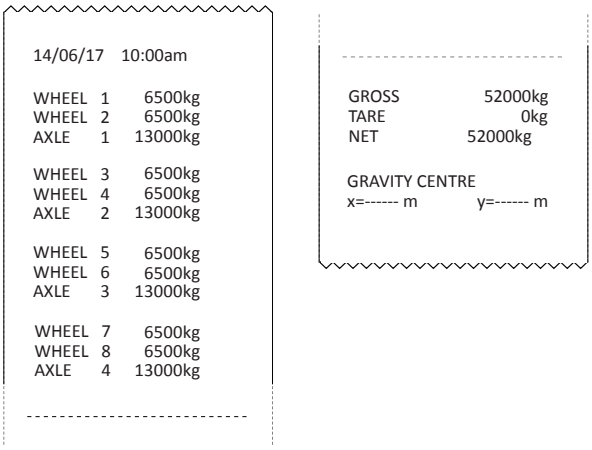
USE	Allows you to print the instant weight on the scale.
APPLICATIONS	Internal controls / Traceability.
ACTIVATION	Standard active function.

1.

2.



3.



14/06/17 10:00am

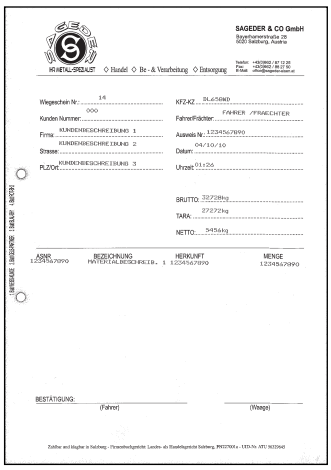
WHEEL	1	6500kg
WHEEL	2	6500kg
AXLE	1	13000kg
WHEEL	3	6500kg
WHEEL	4	6500kg
AXLE	2	13000kg
WHEEL	5	6500kg
WHEEL	6	6500kg
AXLE	3	13000kg
WHEEL	7	6500kg
WHEEL	8	6500kg
AXLE	4	13000kg

GROSS	52000kg
TARE	0kg
NET	52000kg

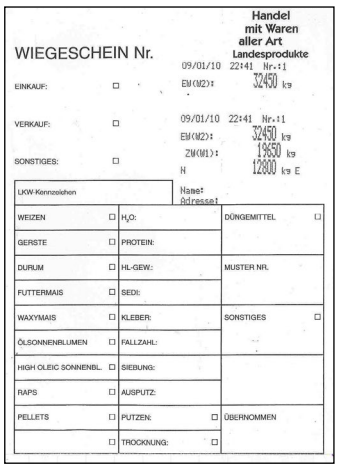
GRAVITY CENTRE
x=------ m y=------ m

Customisable print format

USE	Allows you to issue printouts, in single or multi copy, at each weighing.
ACTIVATION	Activation requires advanced configuation.



SAGEDER & CO GmbH



WIEGESCHEIN Nr.

Handel mit Waren aller Art Landesprodukte

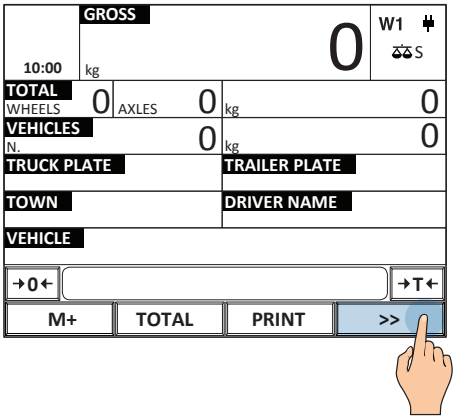
Over 300 data available to print

- Weights
- Descriptions
- Texts
- Traceability Data
- Images
- Logos
- Barcode/QR Codes
- Dates (production, packaging, deadline etc)
- Batch
- Operator
- Truck plate
- Trailer plate
- Town
- Driver name
- Vehicle
- Wheels weight
- Axle weight
- Custom name for “wheels” and “axles”

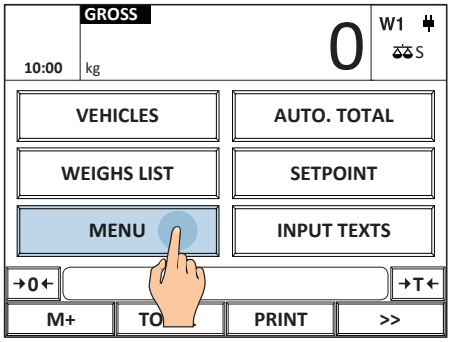
Multi-copy printing

USE	Allows you to issue up to 5 copies of the same receipt/label.
ACTIVATION	Standard active function.

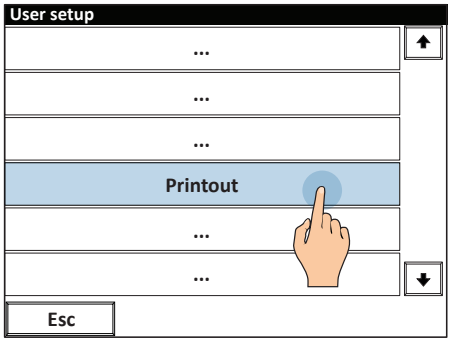
1.



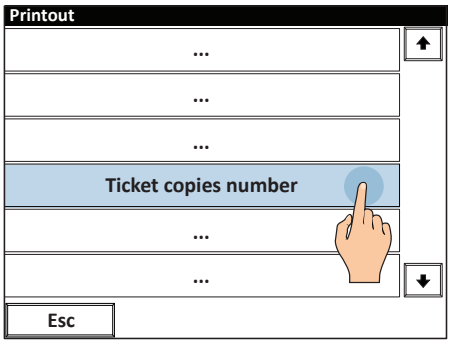
2.



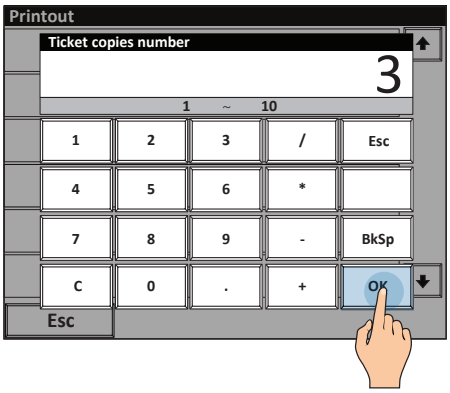
3.



4.

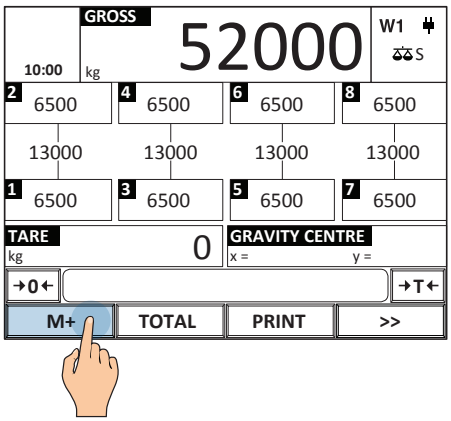


5. Enter the number of copies and press OK to confirm



6.

7.



8. Automatic multi-copy printing at every weigh

Copy 1

TRUCK PLATE

TRAILER PLATE

TOWN

DRIVER NAME

14/06/17 10:00am

WHEEL	1	6500kg
WHEEL	2	6500kg
AXLE	1	13000kg
WHEEL	3	6500kg
WHEEL	4	6500kg
AXLE	2	13000kg
WHEEL	5	6500kg
WHEEL	6	6500kg
AXLE	3	13000kg
WHEEL	7	6500kg
WHEEL	8	6500kg
AXLE	4	13000kg

Copy 2

TRUCK PLATE

TRAILER PLATE

TOWN

DRIVER NAME

14/06/17 10:00am

WHEEL	1	6500kg
WHEEL	2	6500kg
AXLE	1	13000kg
WHEEL	3	6500kg
WHEEL	4	6500kg
AXLE	2	13000kg
WHEEL	5	6500kg
WHEEL	6	6500kg
AXLE	3	13000kg
WHEEL	7	6500kg
WHEEL	8	6500kg
AXLE	4	13000kg

Copy 3

TRUCK PLATE

TRAILER PLATE

TOWN

DRIVER NAME

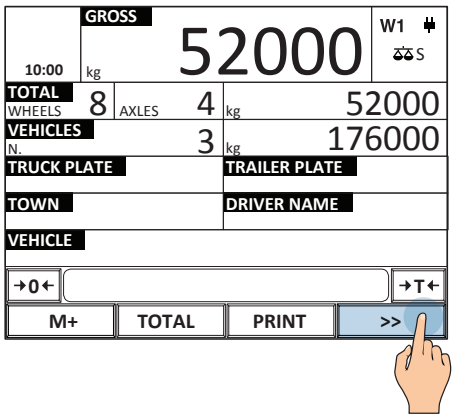
14/06/17 10:00am

WHEEL	1	6500kg
WHEEL	2	6500kg
AXLE	1	13000kg
WHEEL	3	6500kg
WHEEL	4	6500kg
AXLE	2	13000kg
WHEEL	5	6500kg
WHEEL	6	6500kg
AXLE	3	13000kg
WHEEL	7	6500kg
WHEEL	8	6500kg
AXLE	4	13000kg

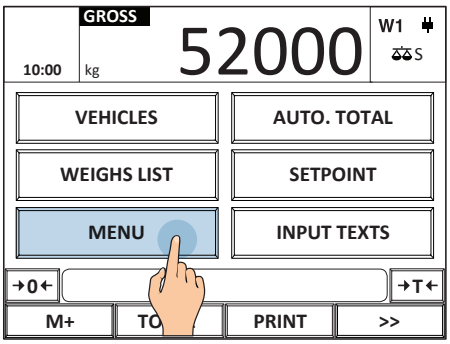
Repeat last printout

USE	Allows you to repeat printing of the last issued receipt.
ACTIVATION	Standard active function.

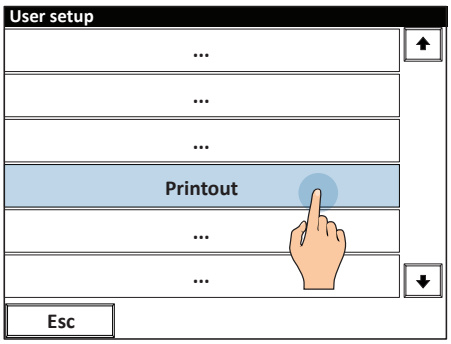
1.



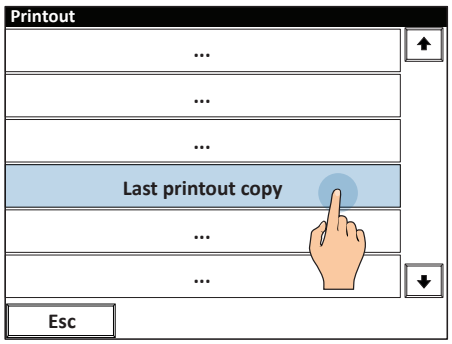
2.



3.



4.



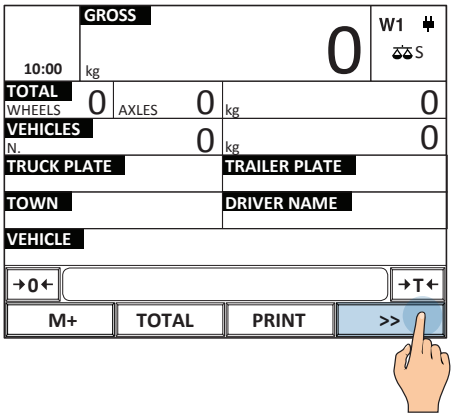
5.

WHEEL	9	6500kg
WHEEL	10	6500kg
AXLE	5	13000kg
WHEEL	11	6500kg
WHEEL	12	6500kg
AXLE	6	13000kg
WHEEL	13	6500kg
WHEEL	14	6500kg
AXLE	7	13000kg
WHEEL	15	6500kg
WHEEL	16	6500kg
AXLE	8	13000kg

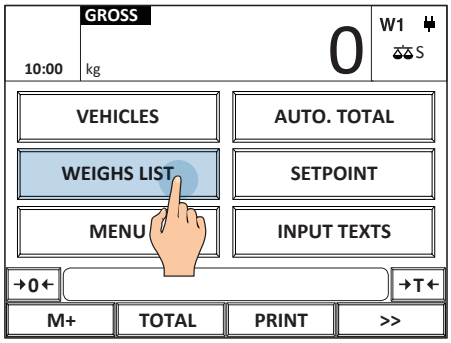
How to print and reset the weighs list

USE	Allows you to print the list of last weighs (up to 1000) performed so far.
APPLICATIONS	Report / Detailed account.
ACTIVATION	Active as standard.

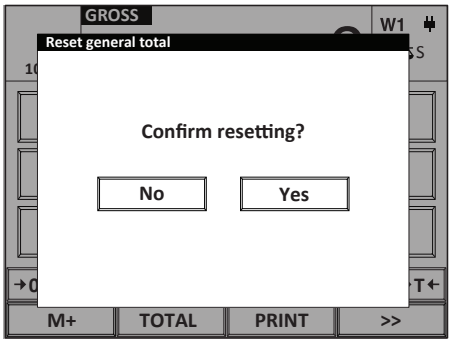
1.



2.



3. Press YES to reset the list, press NO to continue.

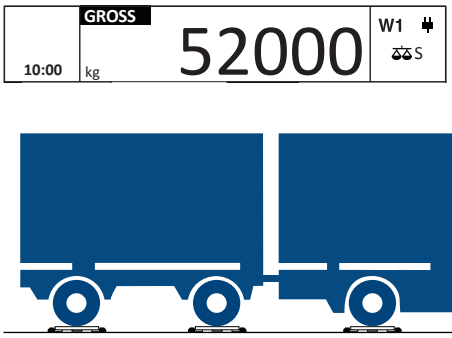


Real time saving on USB mobile media

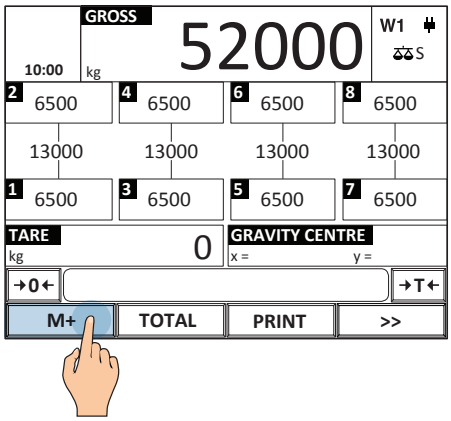
USE	Allows you to have a backup of more than 5,000,000 weighs and correlated data.
APPLICATIONS	• Traceability of weighs • Control reporting • Empowering operators
ACTIVATION	Activation requires advanced configuration.

Note: while weighing, the USB drive must be installed

1.

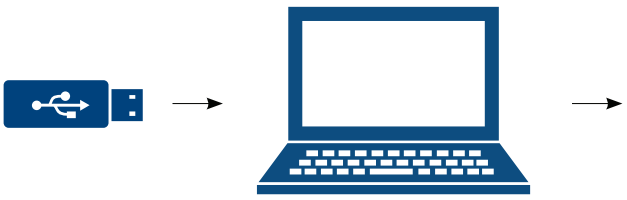


2.



3. Automatic saving to a USB device

4.



N.	MATERIAL	CUSTOMER	BATCH	NET (kg)	DATE
1	CONCRETE	SMIDTH LTD	A22	10000	01-03-17
2	HOME APPLIANCES	WHITE LTD	A24	22760	01-03-17
3	BRICKS	BLACK LTD	A22	67540	01-03-17
4	METAL BARS	RED LTD	S34	54980	01-03-17
5	TILES	SMIDTH LTD	A27	65340	01-03-17
6	STONES / GRAVEL	WHITE LTD	A56	12000	01-03-17
7	PIGS	BLACK LTD	A23	34870	01-03-17
8	TRUCKS	SMIDTH LTD	B54	54000	01-03-17
9	TROPICAL FRUITS	SMIDTH LTD	V43	32000	01-03-17

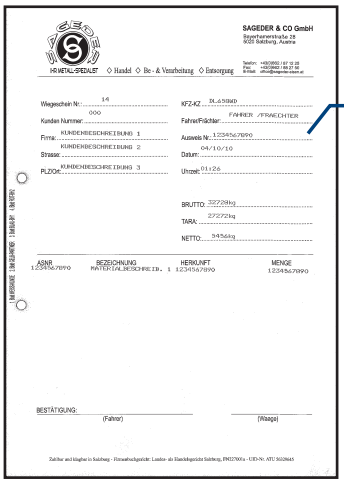
the data saved for each weigh are fully customisable, with descriptions, texts, weights and many other data as necessary.

Saving on alibi memory

USE	The fiscal memory allows you to store the weighs performed (up to 130,000) and transfer them to the IT system for use in commercial transactions with third parties.
APPLICATIONS	Entering the weight in transport documents, invoices, reports for commercial transactions with third parties.
ACTIVATION	Activation requires advanced configuration.

Every performed weigh is recorded on the fiscal memory and identified by a unique numeric code, which must be noted along with the weight on the documents issued.

Example:


SAGEDER & CO GmbH

Wiegeschein Nr.: 14

Kunden Nummer: 000

Firma: KUNDENBESCHREIBUNG 1

KUNDENBESCHREIBUNG 2

Strasse:

PLZ/Ort: KUNDENBESCHREIBUNG 3

KFZ-KZ: SL 450WD

Fahrer/Frächter: FAHRER /FRAECHTER

Ausweis Nr.: 1234567890

Datum: 04/10/10

Uhrzeit: 01:26

BRUTTO: 32728kg

TARA: 27772kg

NETTO: 9456kg

ASNR	BEZEICHNUNG	HERKUNFT	MENGE
1234567890	MATERIALBESCHREIB. 1	1234567890	1234567890

BESTÄTIGUNG:

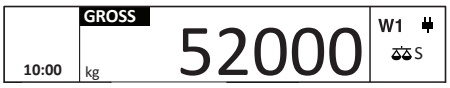
(Fahrer) (Waage)

Weight
123.0kg (00000-000260)

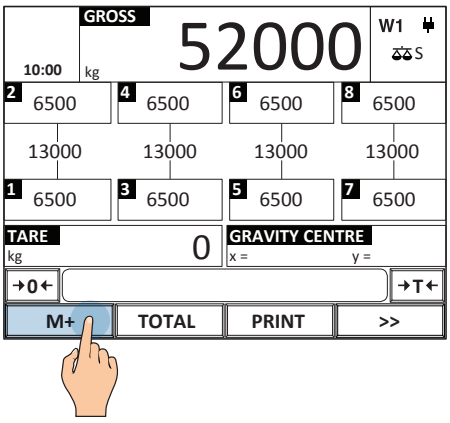
This code allows you to trace and verify the weight data on the indicator in the event of any disputes, demonstrating the correctness of the indicated weight.

How to record a weighing

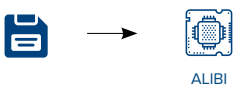
1.



2.



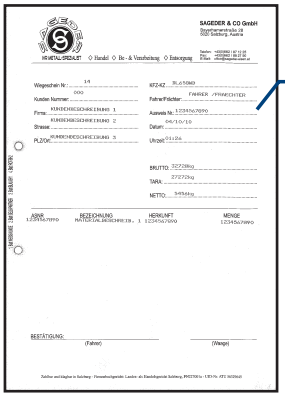
3. Automatic printing and storing at every totalisation.



Alibi memory reading

USE	Allows you to check a weigh saved in the alibi memory.
APPLICATIONS	Quality control / traceability / verification
ACTIVATION	The fiscal memory (alibi memory) is integrated as standard in the main board of the indicator. Activation requires advanced configuration.

Example:



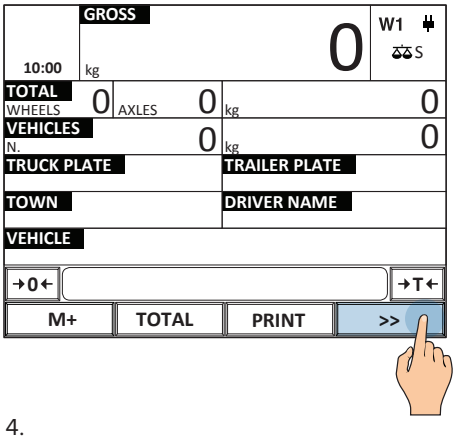
Alibi memory ID code to verify:

123.0kg (0 - 260)

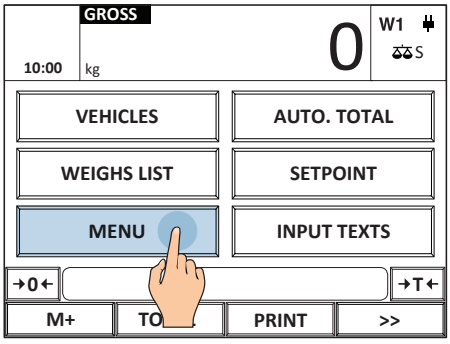
Rewriting number

Number weigh

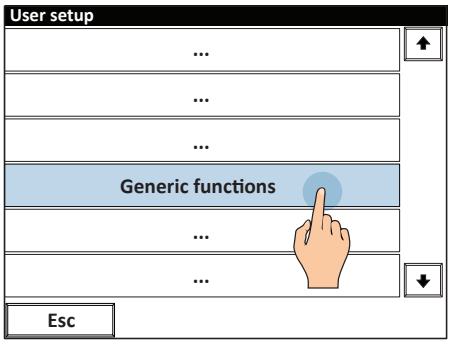
1.



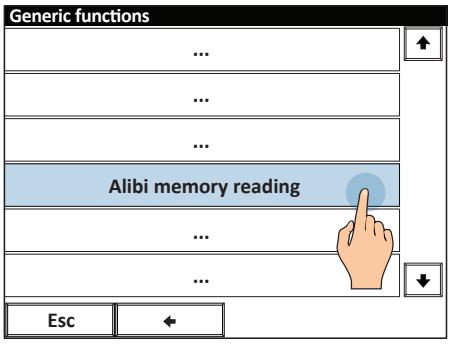
2.



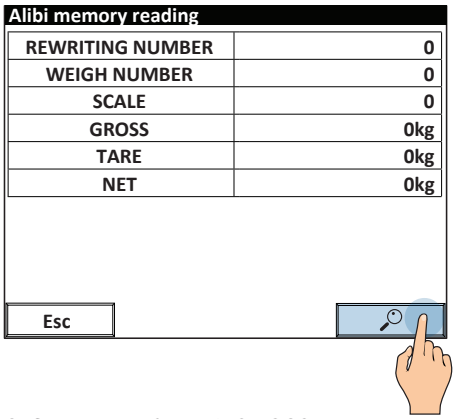
3.



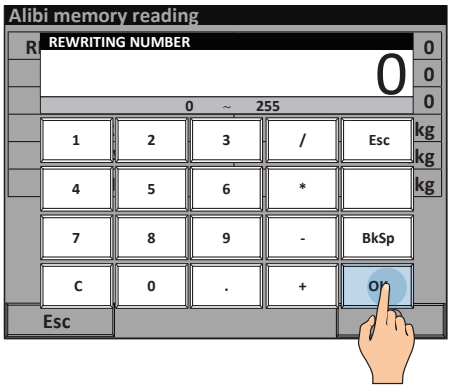
4.



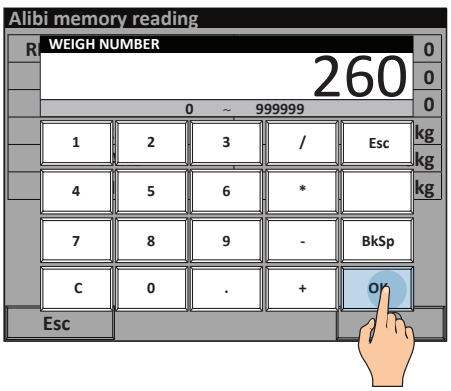
5.



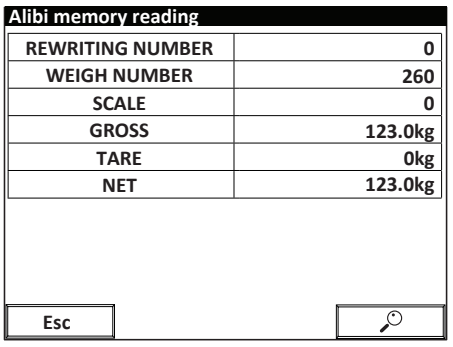
6. Enter the “rewriting number”



7. Enter the “weighing number”



8. Summary of weigh 0 - 260.

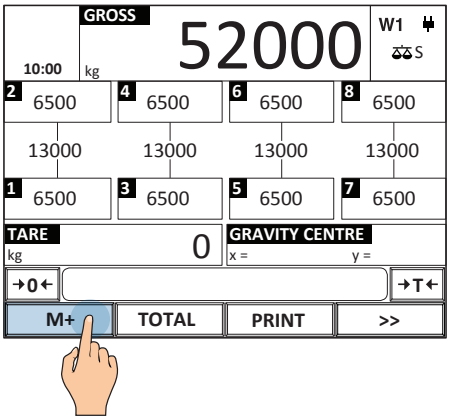


Saving weighs to PC via "WeiMonitor" program

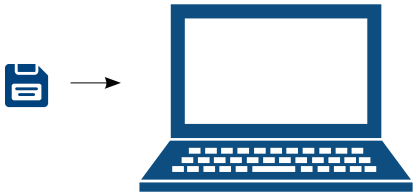
USE	"WeiMonitor" is a computer program that allows you to receive and save each weigh in real time, with all the related traceability data.
APPLICATIONS	Traceability / Production monitoring
ACTIVATION	The "WeiMonitor" program is optional, requires a license and advanced configuration.

1.

2.



3. Automatic save to PC using the "Wei-Monitor" program



4.

N.	MATERIAL	CUSTOMER	BATCH	NET (kg)	DATE
1	BRICKS	SMIDTH LTD	A22	1020	01-03-17
2	TILES	WHITE LTD	A24	2276	01-03-17
3	STONES / GRAVEL	BLACK LTD	A22	6754	01-03-17
4	TRUCKS	RED LTD	S34	5498	01-03-17
5	CONCRETE	SMIDTH LTD	A27	6534	01-03-17

Communication between scale and PC occurs via RS232, USB, Ethernet or WiFi *(page D-1)*.

Notes on "WeiMonitor":
- It installs easily and only requires a serial or Ethernet connection with the scale.
- It can record weights on multiple scales simultaneously.
- The stored data can be customised to suit your needs.
- Includes the keyboard emulation function to enter the weight directly in the open document.
- Can record weights for preset periods and plot graphs.

A strength of the product you have purchased is its ability to be customised to seamlessly integrate into the application for which it is intended. You can customise:

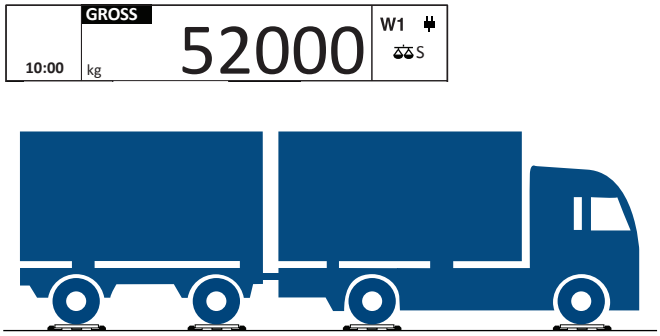
- The main work screen, making it easy and user-friendly, reducing the possibility of errors.
- Operational sequences, to guide employees in operations, speeding up processes.
- Operational messages, important to warn or remind of any peculiarities or errors during weighing operations.
- You can customise the application to integrate the scale into pre-existing weighing systems.
- Communication protocol, useful to interface the scale with pre-existing programs.

Operational sequences

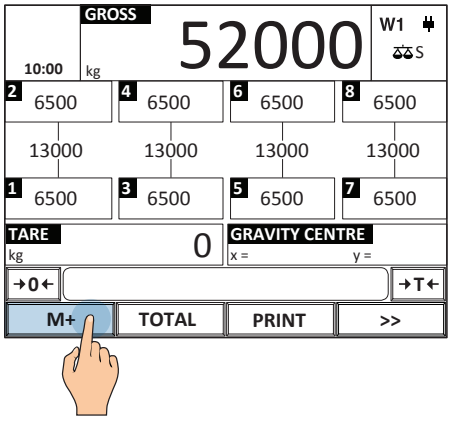
USE	Allow you to create wizards to speed up the operator's work, reducing errors. You can create up to 10 different wizards, each made up of 10 consecutive operations. Each sequence can be combined with any key or text box on the main screen.
APPLICATIONS	Wizards for the operator.
ACTIVATION	Activation requires advanced configuration.

Example:
sequence requiring automatically, before performing totalisation, filling in the free texts, acquisition of weighing and automatic issue of the printout:

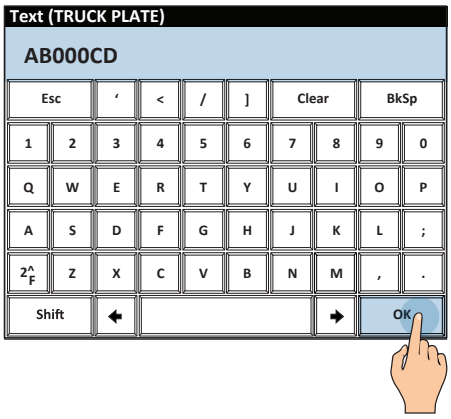
1.



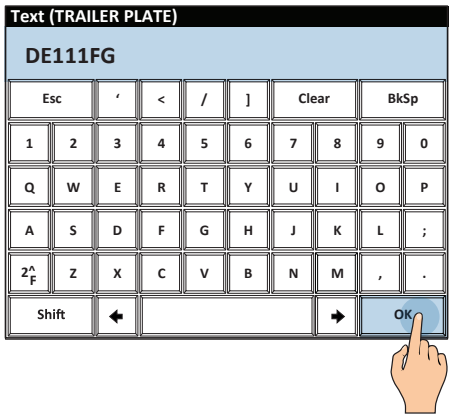
2.



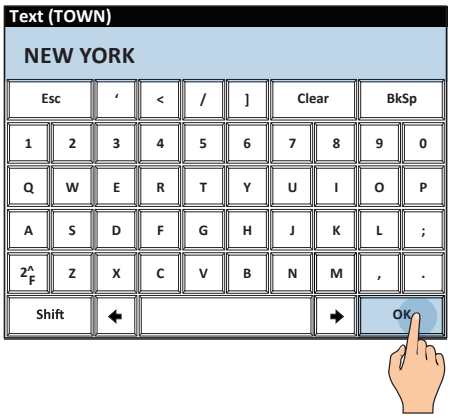
3.



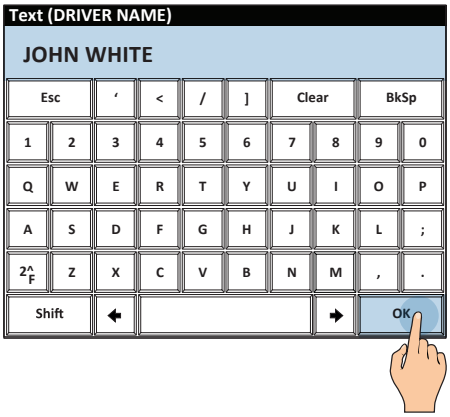
4.



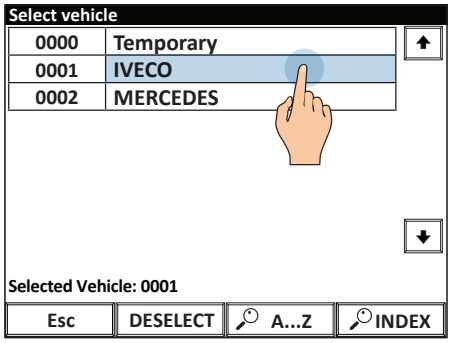
5.



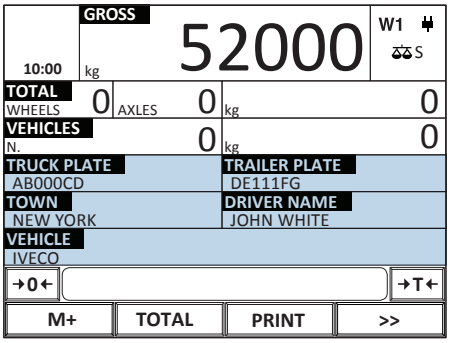
6.



7.



8.



9.

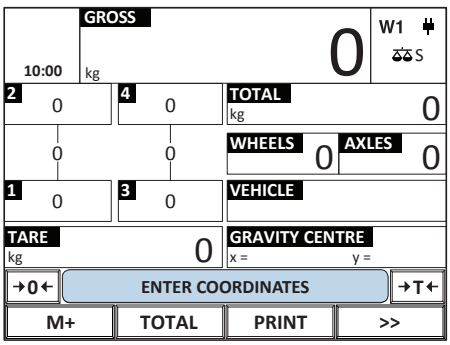
IVECO
TRUCK PLATE
AB000CD
TRAILER PLATE
DE111FG
TOWN
NEW YORK
DRIVER NAME
JOHN WHITE

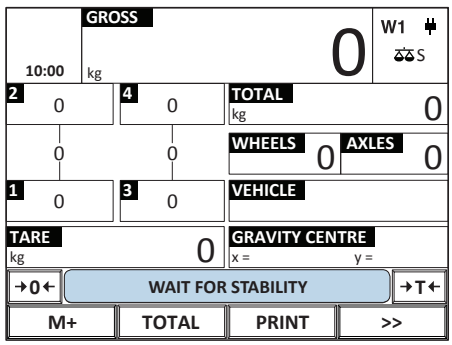
14/06/17 10:00am

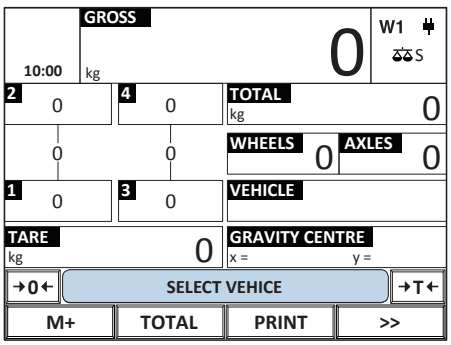
WHEEL 1	6500kg
WHEEL 2	6500kg
AXLE 1	13000kg
WHEEL 3	6500kg
WHEEL 4	6500kg
AXLE 2	13000kg
WHEEL 5	6500kg
WHEEL 6	6500kg
AXLE 3	13000kg
WHEEL 7	6500kg
WHEEL 8	6500kg
AXLE 4	13000kg

Operational messages

USE	Allow to communicate messages to the operator in the language of your choice at the desired time.
APPLICATIONS	Wizards for the operator.
ACTIVATION	Activation requires advanced configuration.







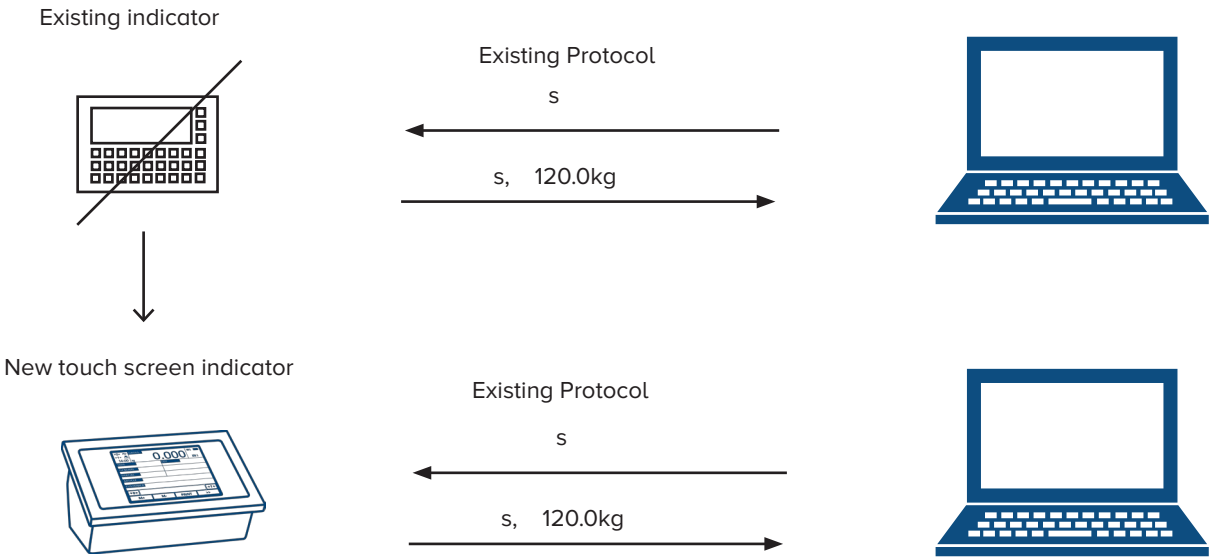
Application program

USE	The indicator has an area of memory dedicated to the development of completely customised programs in order to further integrate the scale into the customer's production system. This important feature increases the versatility of the weight indicator you have purchased and allows you to expand the potential of the weighing system at any time. The standard programming language includes numerous preset features and all the necessary commands.
ACTIVATION	Application programs can be created by software experts.

Customising the communication protocol

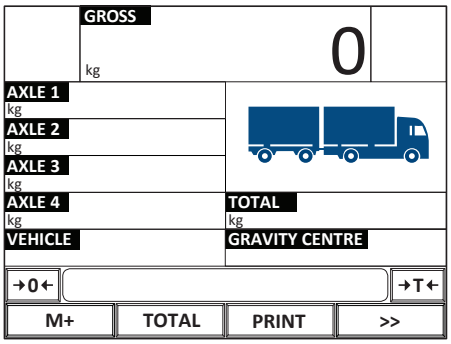
USE	Allows you to interface the weight indicator with existing PC programs without changing the existing communication protocol. This function is essential in modernising installations or replacing discontinued scales or scales with limited functions of any brand with which there is communication with PC, PLC or company IT system. Customisation applies both to outgoing strings and incoming commands.
ACTIVATION	Application programs can be created by software experts.

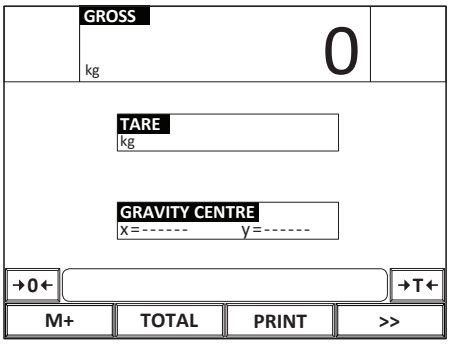
Example:

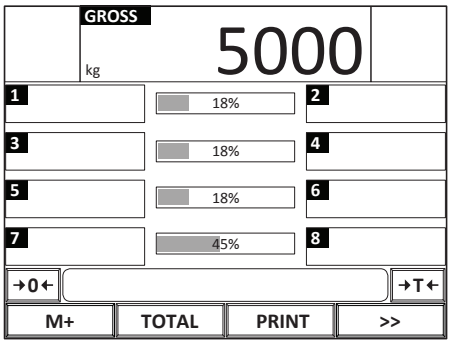


Fully customisable work screens

USE	Allows operators to view only information and operations that are essential to do their jobs correctly and without errors, or to view all the information needed in real time.
APPLICATIONS	Useful to simplify any weighing application.
ACTIVATION	Activation requires advanced configuration.







The indicator can display images, logos, bar graphs, synoptics, etc. You can also add or remove buttons, hot spots, text boxes.
You can create and customise up to 3 work screens that can be accessed quickly from the main one.

Customising the language / text

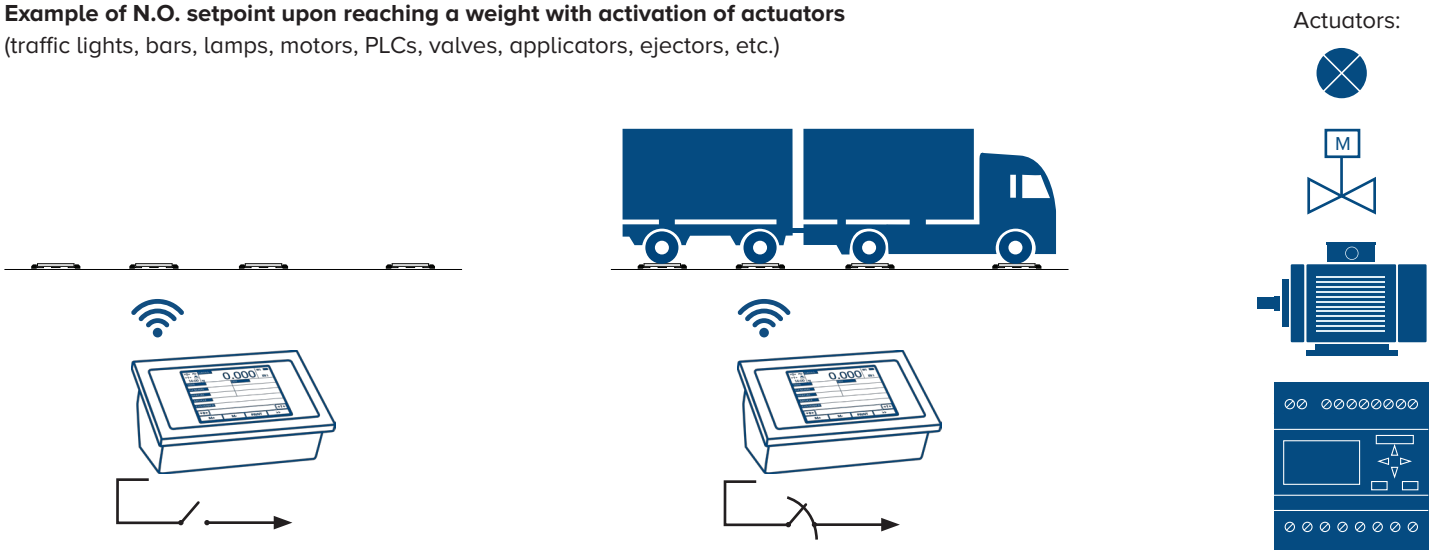
USE	You can translate / edit all messages and texts on the scale into the desired language using the "Custom Language Tool" computer program.
APPLICATIONS	Useful to facilitate the operator work.
ACTIVATION	Customising the language requires advanced configuration.

Managed page codes:
- Latin 1
- Greek
- Cyrillic
- Vietnamese

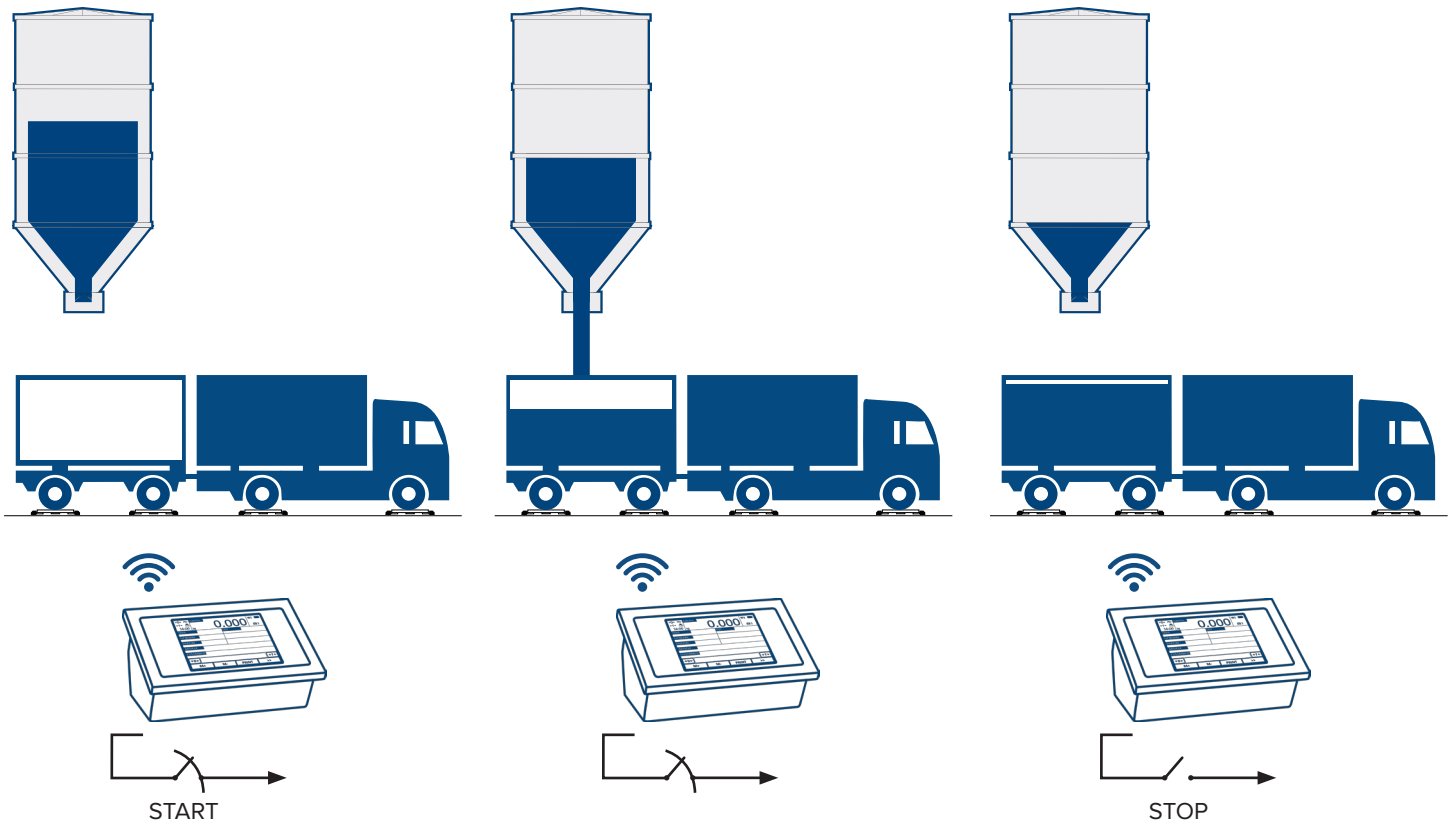
Setpoint / dosage

USE	Allows you to activate one or more digital outputs of the indicator upon reaching a certain weight or when a particular function is completed (weighing, reset, etc.)
APPLICATIONS	Industrial automation.
ACTIVATION	Activation requires advanced configuration.

Example of N.O. setpoint upon reaching a weight with activation of actuators
(traffic lights, bars, lamps, motors, PLCs, valves, applicators, ejectors, etc.)



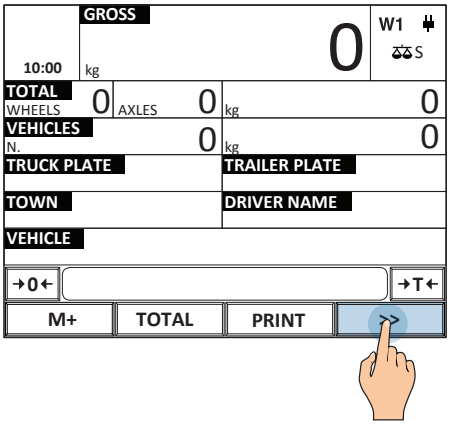
Dosierbeispiel mit Sollwert N.C.



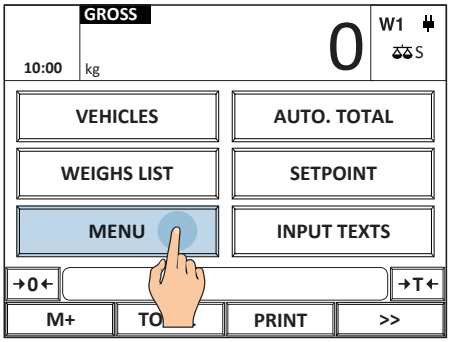
The scale has optional relay outputs, expandable up to 16 with optional board.

Set the activation thresholds

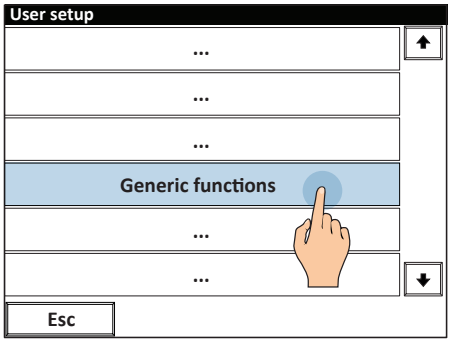
1.



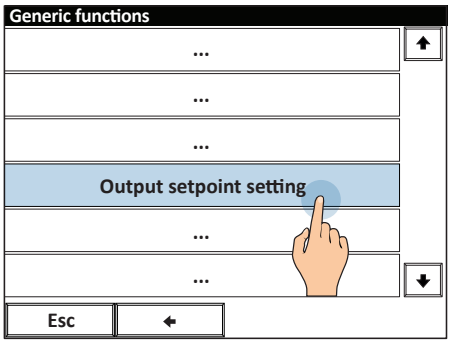
2.



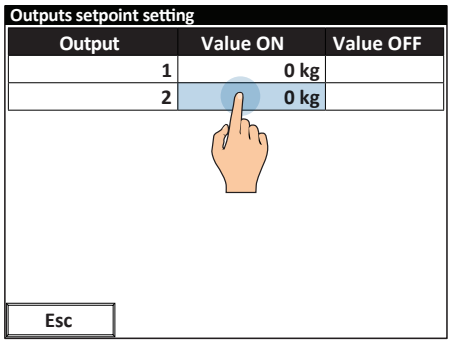
3.



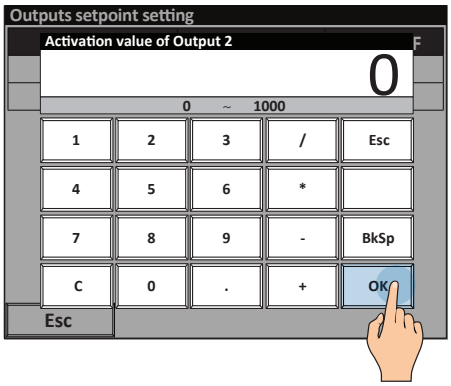
4.



5.

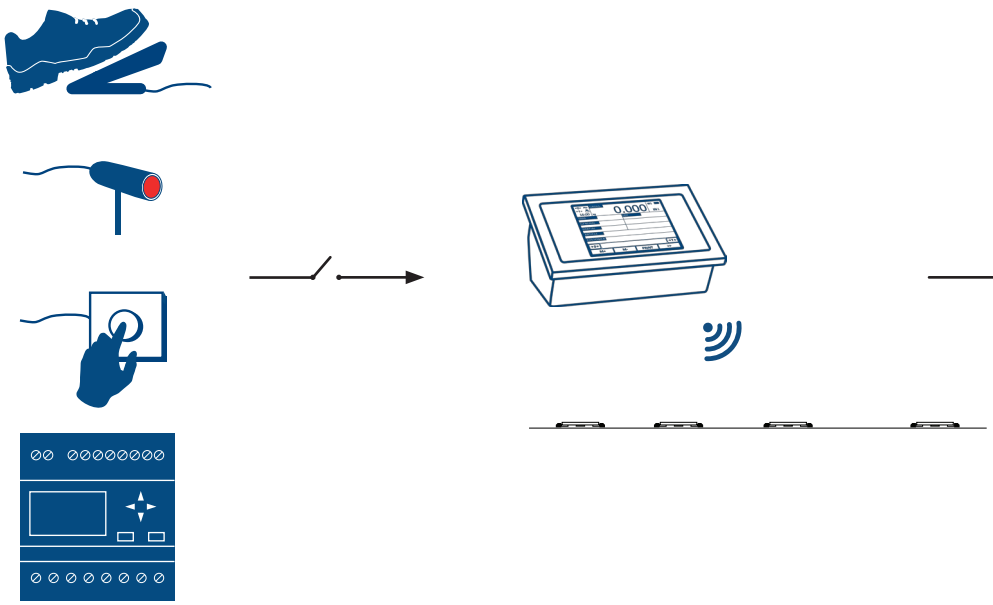


6. Setting the activation (and deactivation) value.



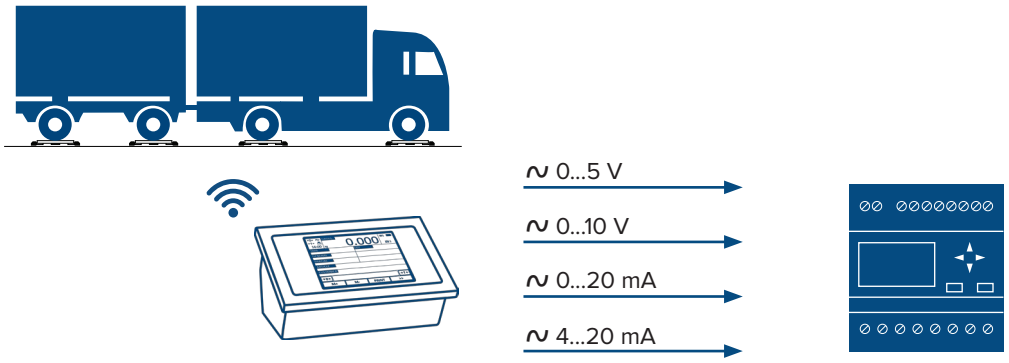
Digital inputs

USE	Allow you to receive digital signals from external devices such as photocells, contacts, PLCs, buttons, pedals, etc. and run the associated function.
APPLICATIONS	Automate weighing cycles.
ACTIVATION	Activation requires advanced configuration.



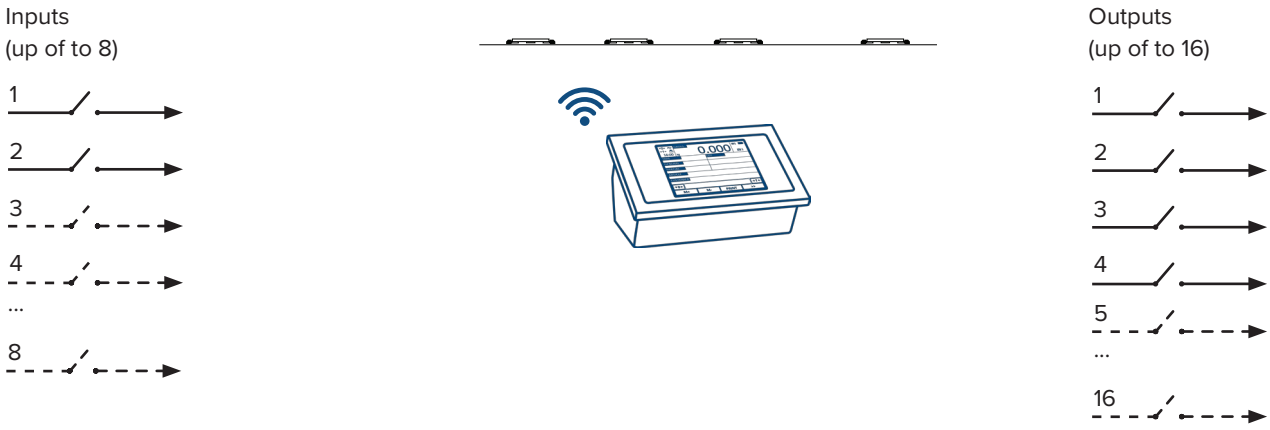
Optional analogue interface 4..20mA 0..10V

USE	Allows you to communicate with PLCs or other industrial devices, providing a voltage or current analogue signal proportional to the weight.
APPLICATIONS	Industrial automations.
ACTIVATION	Activation requires advanced configuration.



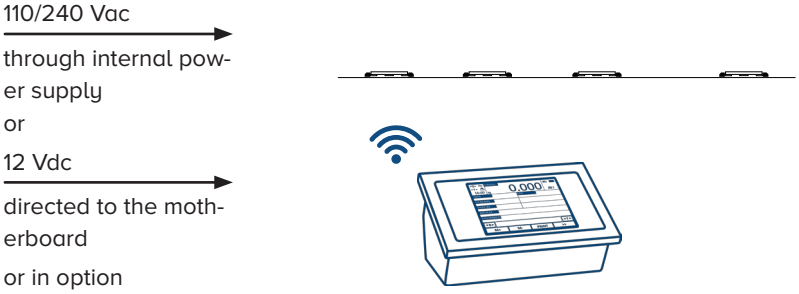
Expanding inputs and outputs

USE	Optional board that allows you expand inputs and outputs to simultaneously communicate with multiple devices, increasing the potentialities of the scale.
APPLICATIONS	Industrial automations.
ACTIVATION	Activation requires advanced configuration.



Expansion of power supply range

USE	Optional boards that allows you to power the scale using different voltages than the standard ones.
APPLICATIONS	Industrial automations.
ACTIVATION	Activation requires advanced configuration.

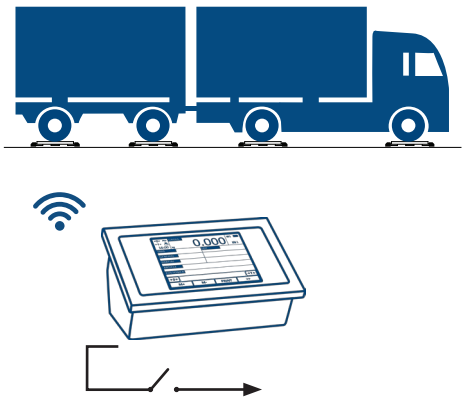


Timed relays

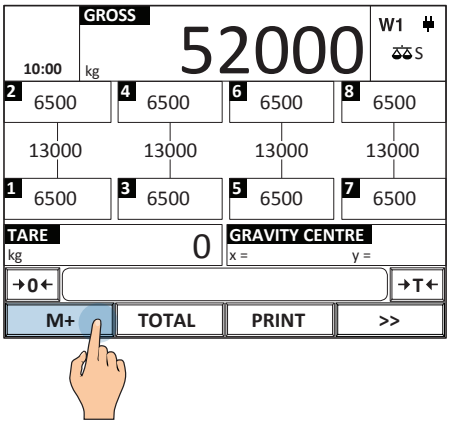
USE	The scale relays can be timed to perform specific functions such as opening and closing of bars or activation of light signals, etc.
APPLICATIONS	Industrial automations.
ACTIVATION	Activation requires advanced configuration.

Example of activating a motor for an established time of 3 seconds following totalisation.

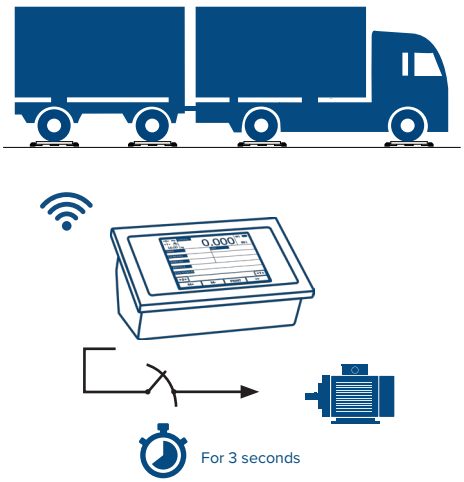
1.



2.

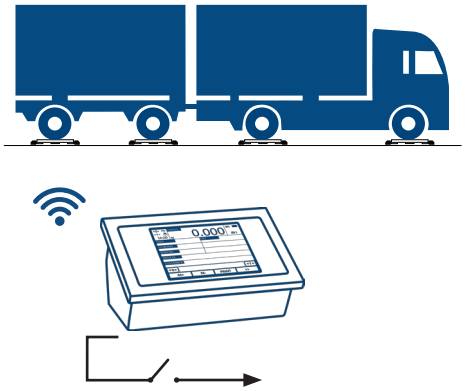


3.

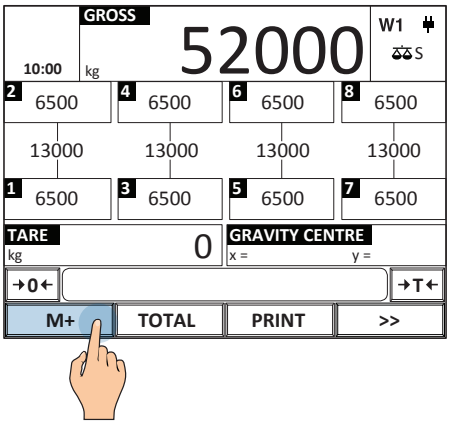


Example of activating a motor delayed by 3 seconds following totalisation.

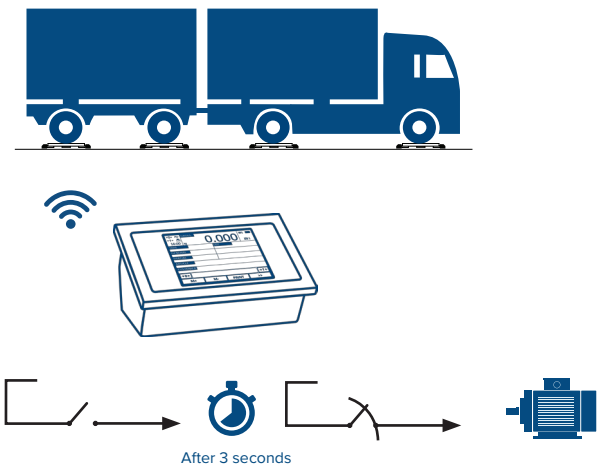
1.



2.



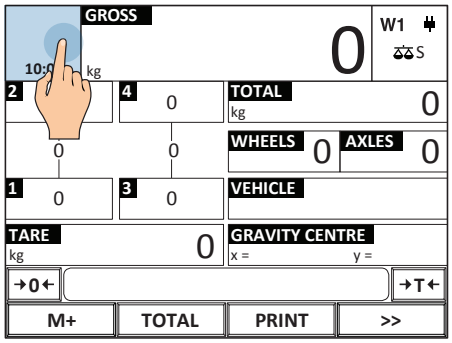
3.



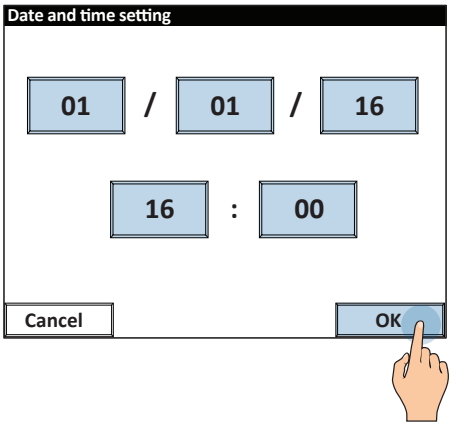
Adjusting the date and time

ACTIVATION	Standard active function.

1.



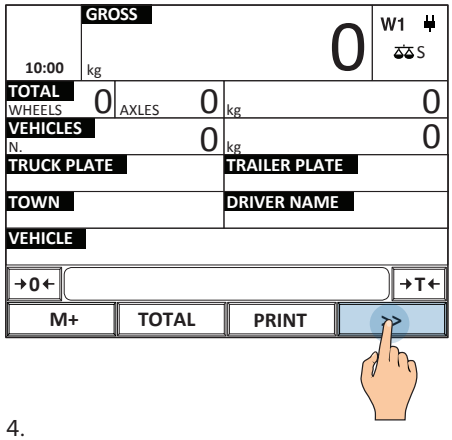
2. Set date and time and press OK to confirm



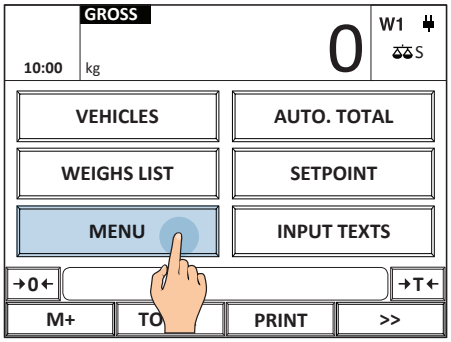
Adjusting the display brightness

ACTIVATION	Standard active function.

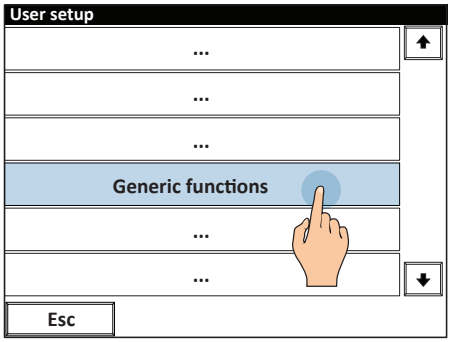
1.



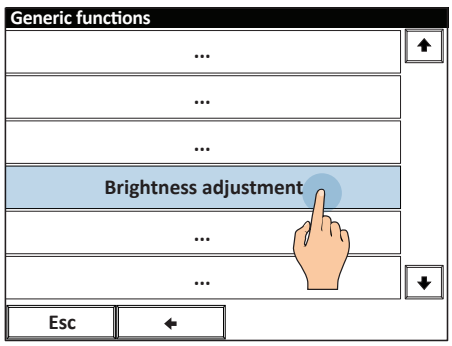
2.



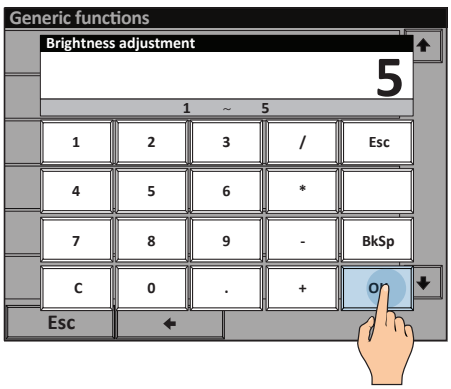
3.



4.



5. Set a brightness value between 1 and 5 and press OK to confirm

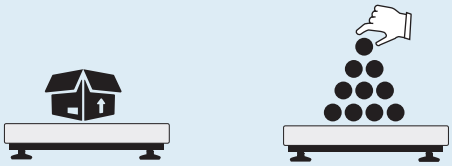


Weighing speed (weighing filter)

USE	Edits scale reactivity. Useful in optimising weighing to your needs.
APPLICATIONS	General weighing.
ACTIVATION	Activation requires advanced configuration.

The available adjustments allow you to maximise weighing speed for the following applications:

Table and floor scales and piece counters



"FLT" type filter

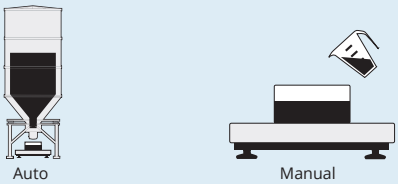
High precision scales

"HR" type filter

Suspended and oscillating load weighing

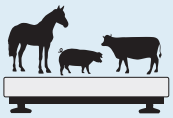
"DYN" type filter

Metering, filling, level check and overloads



"DOS" type filter

Weighing live animals



"HOLD" type filter

Special weighing applications

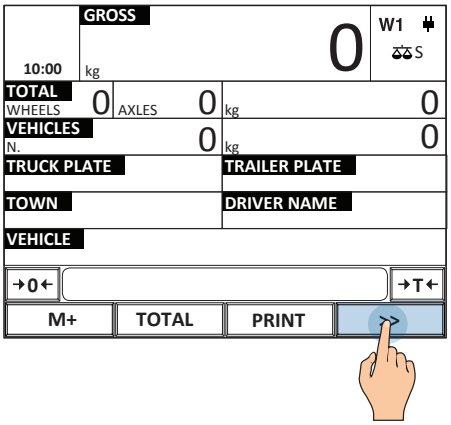
Fully programmable “CUSTOM” type filter, for use by the manufacturer.

Liquid weighing, weighbridges and weighing with vibrations

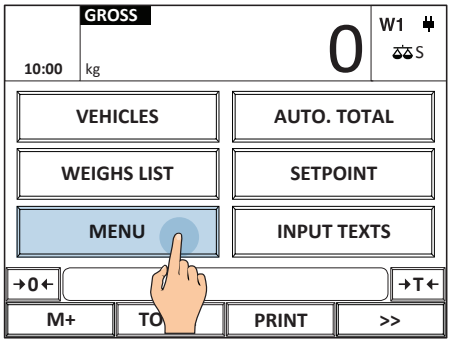
"SLOW" type filter

Identification of the metrological software of the instrument

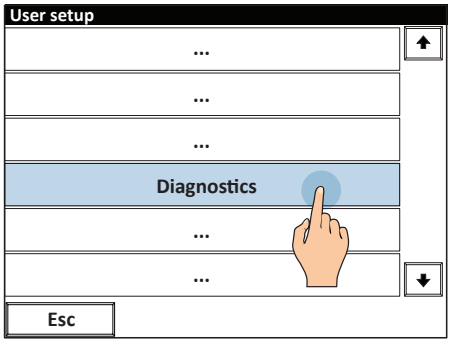
1.



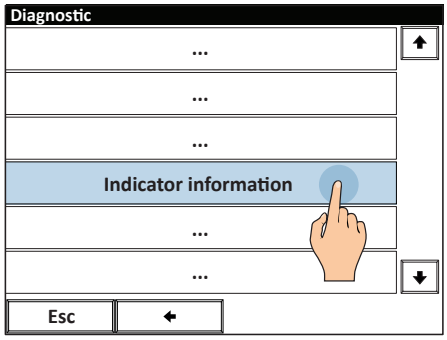
2.



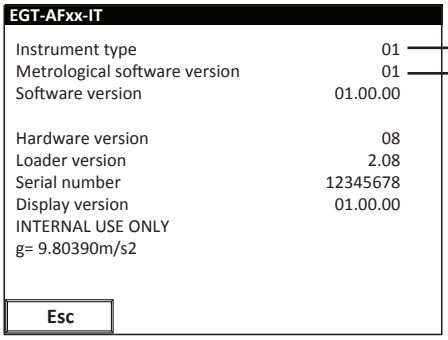
3.



4.



5.



Prefix: identifies the tool model
Version: identifies the legal software

FAQ - Frequently Asked Questions

PRINT

The scale does not print

- Another printout is already in progress
- Make sure there is a roll in the printer
- The printer does not switch on
- The weight is unstable
- The net or gross weight is negative or insufficient for printing
- Underload or overload (_____ o ¯¯¯¯¯¯)
- The scale was not unloaded after the last printing
- You are trying to print a non-approved weight

WEIGHING

The scale does not switch on

- Make sure the power cable is connected properly
- Connect the battery charger and try again. If the instrument continues to malfunction, contact the dealer.

The scale switches off suddenly

- Standby mode active, press the touch screen to reactivate the display
- Automatic switching off active
- Low battery
- Battery failure
- Power supply line failure

The scale is not reactive

- One of the available energy saving modes has been activated
- An unsuitable weighing filter has been selected

At switch-on, the scale displays the "reset in progress" message

- The scale is unable to automatically reset the weight because it exceeds the maximum resettable weight at switch-on. Free the plate, turn the scale off and try again. If the scale continues to have the same problem even when there is nothing on it, contact the dealer.

The weight is unstable

- Check whether the weighing filter is active.
- If the support surface is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.

Notes

DINI ARGEO
Scales - Weighing systems

HEAD OFFICE
Via Della Fisica, 20
41042 Spezzano di Fiorano, Modena - Italy
Tel. +39 0536 843418 - Fax +39 0536 843521

SERVICE ASSISTANCE
Via Dell'Elettronica, 15
41042 Spezzano di Fiorano, Modena - Italy
Tel. +39 0536 921784 - Fax +39 0536 926654

www.diniargeo.com

Stamp of authorised support centre