



AF03GT

Program for weighbridges

STRUCTURE OF THE SET-UP - v7

ENGLISH



For 3590 series touch screen indicators

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Dear Customer,
Thank you for purchasing a DINI ARGEO product.

This manual illustrates in detail the configuration set up structure of the AF03 weighing program, specific for managing weighbridges. It especially describes all of the configuration parameters with the relative range of values which can be set and practical examples of programming, to help the technician while installing the indicator.

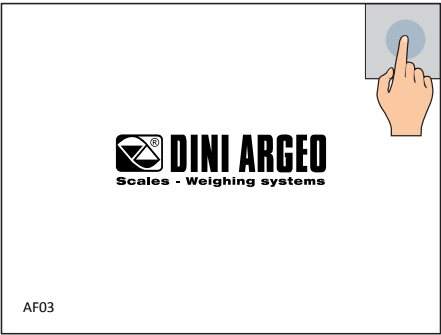
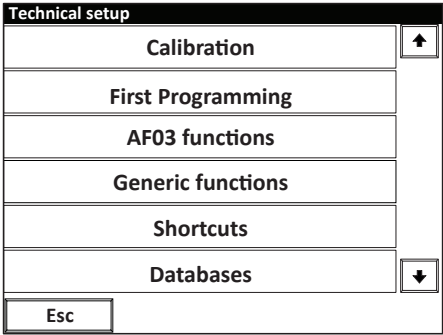
For any additional information or specific request, do not hesitate to contact your trusted retailer.

This document has been optimised for printing in A4 format.

Programming

How to access the menu:

1. Turn off the scale.
2. Turn the scale on and press the area at the top right of the display during switch-on.
3. Programming menu



i If the menu is password protected, it is only possible to access it by entering it. Alternatively, you can access partial set-up reserved for diagnostics.

i To view a customised logo upon switch-on, you must upload the image on SD.
If a switch-on message is set (**B 3**), no logo will be viewed.

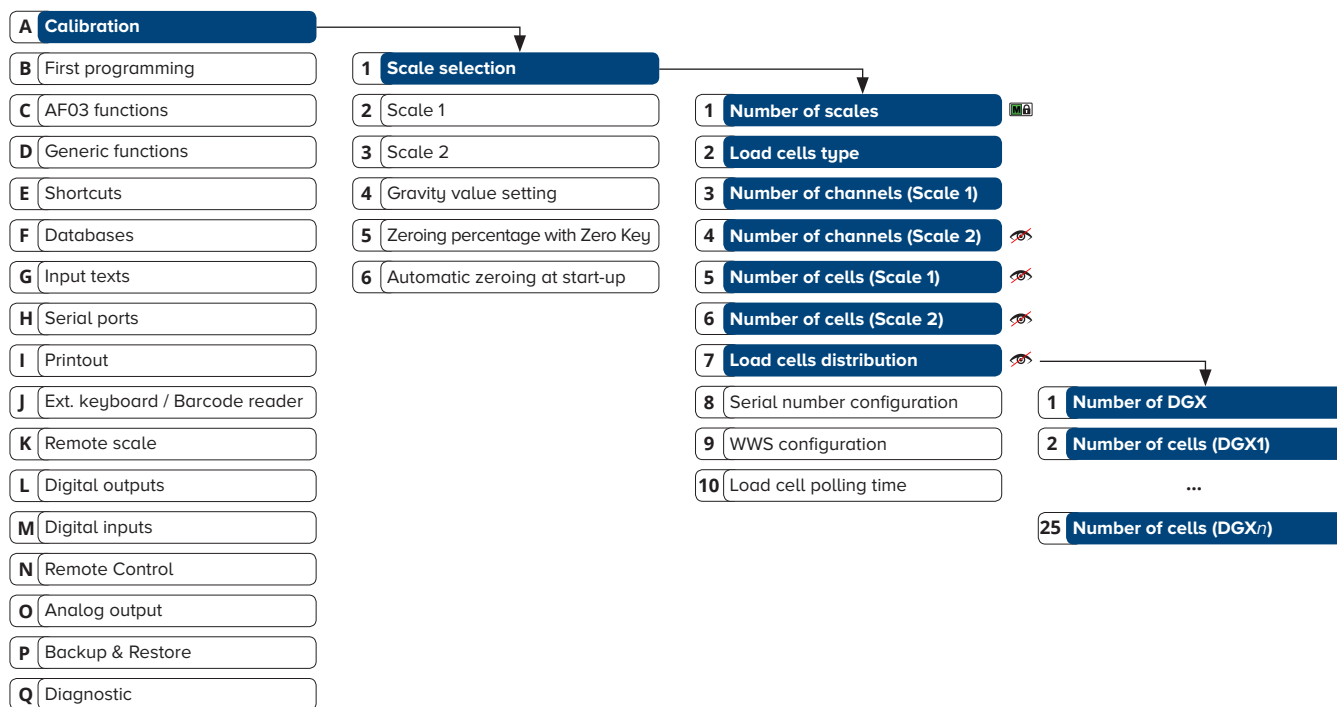
The letter has the sole purpose of indexing the parameters to make it easier to find them inside the manual, but it does not appear in the program.

A	Calibration	
B	First programming	
C	AF03 functions	
D	Generic functions	
E	Shortcuts	
F	Databases	
G	Input texts	
H	Serial ports	
I	Printout	
J	Ext. keyboard / Barcode reader	
K	Remote scale	
L	Digital outputs	
M	Digital inputs	
N	Remote Control	
O	Analog output	
P	Backup & Restore	
Q	Diagnostic	

KEY:

- Parameter visible only in certain conditions.
- Possible configurations of the parameter.

- Parameter or menu subject to approval.
- o (x) Indicates the default configuration.



KEY:



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Possible configurations of the parameter.



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A 1 1 Number of scales

Selection of the number of connected weighbridges; by "remote scale" we mean a remote weighing system connected via serial / Ethernet, the weight of which is used as if it were a directly connected load receptor.

☐ Remote scale
 ☒ 1
 ☐ 2

2 Load cells type

Allows you to select analogue cells, digital cells, WWS wheel-weighing platforms or DGX conversion boards.

☒ Analog
 ☐ Digital RCPTD
 ☐ Digital RCD
☐ Digital SP/CS
 ☐ Digital CB50X-DL
 ☐ Digital RL5426/5416
☐ Digital RC3D
 ☐ Digital C16i
 ☐ Digital ZSFD
☐ Digital DGX
 ☐ Digital WWS



DGX is a board which converts up to four analogue cells into digital.
WWS is a digital wheel-weighing platform.

3 Number of channels (Scale 1)

4 Number of channels (Scale 2)

5 Number of cells (Scale 1)

Allows you to select how many reading channels to use for the connection of each analogue weighbridge.

1 ~ 4 (1).

Only visible if "Type of load cell = Digital".

For digital cells: for programming the number of digital cells used for each weighbridge.

For DGX digital junction boards: for programming the total number of analogue cells connected to the DGX boards used.

One weighbridge

1 ~ 16 (1) for digital cells.

1 ~ 24 (1) for analogue cells connected to DGX.

6 Number of cells (Scale 2)

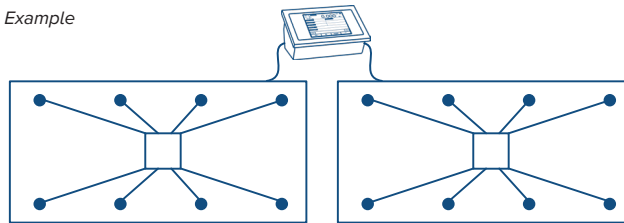
Only if "Load cells type = Digital" e "Number of scales = 2".

Like "Number of cells (Scale 1)"; the maximum number of cells which can be configured for "Scale 2" depends on that set for "Scale 1".

1 ~ 15 (1) for digital cells.

1 ~ 23 (1) for analogue cells connected to DGX.

Example



Weighbridge 1 (8 cells)

Weighbridge 2 (8 cells)

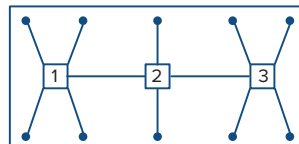
Total 16 cells.

7 Load cells distribution

Only visible if "Type of load cell = DGX".

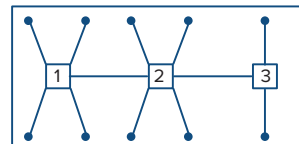
Indicates the total number of DGX boards and the division of the load cells for each DGX board.

Example 1



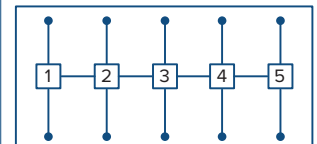
Weighbridge with three DGX:
DGX1 - 4 analogue cells;
DGX2 - 2 analogue cells;
DGX3 - 4 analogue cells.

Example 2



Weighbridge with three DGX:
DGX1 - 4 analogue cells;
DGX2 - 4 analogue cells;
DGX3 - 2 analogue cells.

Example 3



Weighbridge with five DGX:
DGX1 - 2 analogue cells;
DGX2 - 2 analogue cells;
DGX3 - 2 analogue cells;
DGX4 - 2 analogue cells;
DGX5 - 2 analogue cells.

Number of DGX

Indicates the total number of DGX boards used to implement the weighbridges.

(In example 1 and 2, the total DGX is 3, in example 3 the total DGX is 5).

1 ~ 24 (1).

Number of cells (DGX1)

...

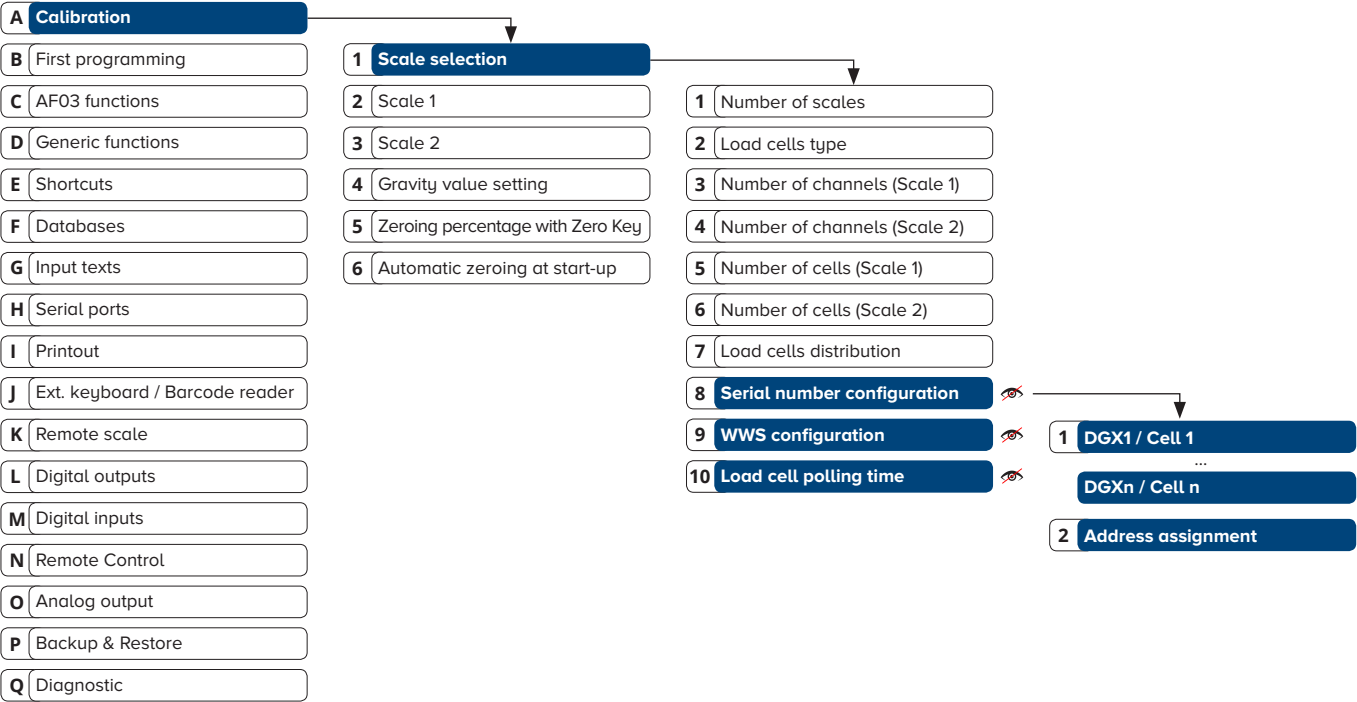
Number of cells (DGX24)

Indicates the number of analogue cells connected to the DGX board.

1 ~ 4 (1).



The number of cells for each DGX depends on the number of DGX boards.



KEY:



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Possible configurations of the parameter.



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A 1 8 Serial number configuration

Only visible if "Type of load cell = Digital".

Allows you to transmit the relative identification number code to each cell/DGX board.

DGX1 / Cell 1

Enter the serial number of cell 1 / first DGX board.

DGXn / Cell n

Serial number cell *n* / DGX board *n*.

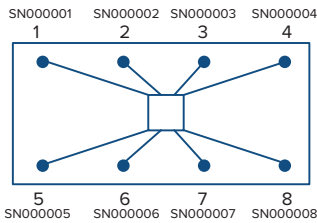
Address assignment

Transmission of data to cells/DGX boards.

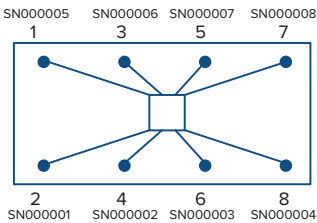
A numerical index (from 1 to *n*) is assigned to each cell, according to the order of entry.

The physical layout of the load cells below the weighbridge is not bound to the order of entry and therefore can be carried out according to your requirements:

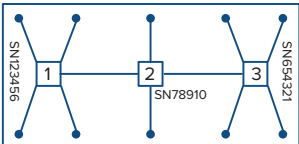
Example of free numbering of digital cells



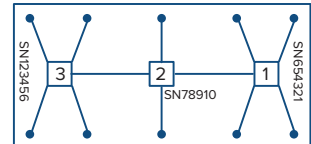
or



Example of free numbering of DGX boards



or



9 WWS configuration

Only visible if "Load cells type = WWS Digital".

Specific menu for using digital WWS platforms.

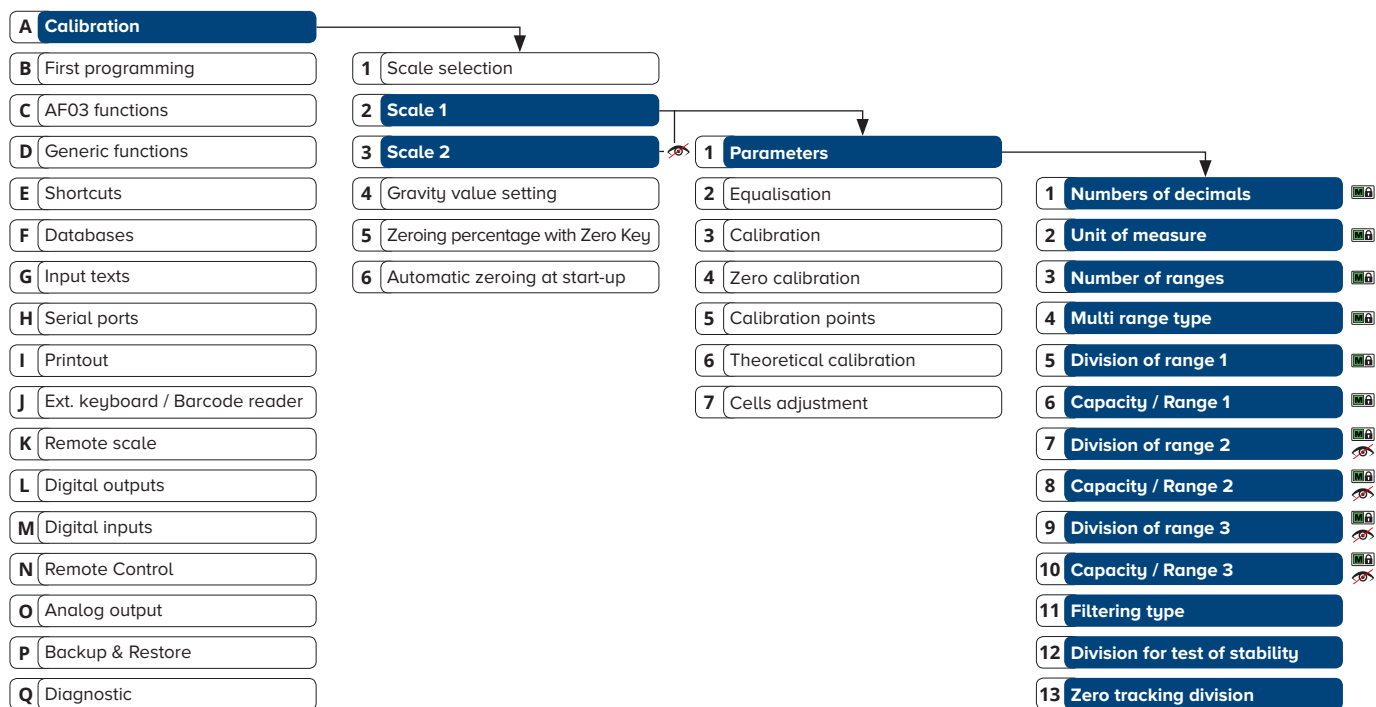
10 Load cell polling time

Only visible if "Type of load cell = Digital".

Reading frequency of the digital load cells.

Increase the value if there are communication problems.

⚙ 0 ~ 200



KEY:



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Possible configurations of the parameter.



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A 2 1 1

Numbers of decimals

☒ 0
 ☐ 0.00
 ☐ 0.0
 ☐ 0.000

Unit of measure

☐ g
 ☒ kg
 ☐ t
 ☐ lb

Number of ranges

Enables multi-range scales.

☒ 1
 ☐ 2
 ☐ 3

Multi range type

☒ Multi range
 ☐ Multi divisione

Division of range 1

Division ("d" or "e") of the scale in case of single range, division of the first range in case of a multi-range scale.

☐ 1
 ☐ 2
 ☐ 5
 ☐ 10
 ☒ 20
 ☐ 50
 ☐ 100
 ☐ 200

Capacity / Range 1

Maximum range of the scale ("Max.") or first range for the "multi-range" scale.
0 - 999999 (60000).

Division of range 2

Division of the second range for the multi-range scale.

Capacity / Range 2

Second range for the multi-range scale.

Division of range 3

Division of the third range for the multi-range scale.

Capacity / Range 3

Third range for the multi-range scale.

Filtering type

Adjustment of the weighing filter, modifies the reactivity of the scale.
"0" represents minor filtering incidence. Increasing the incidence give the weight more stability. We recommend weighing several times, changing the incidence until you obtain the best compromise between reactivity and stability.

With the approved instrument, you can select only some of the filters listed.

☐ FLT 0 (CE-M)
 ☐ FLT 3 (CE-M)
 ☐ FLT.OFF
 ☐ FLT.AV2
 ☐ H.R.0 (CE-M)
 ☒ H.R.1 (CE-M)
 ☐ H.R.7
 ☐ DYN.0 (CE-M)
 ☐ DYN.3
 ☐ DOS.0
 ☐ DOS.3
 ☐ SLW.0
 ☐ SLW.3
 ☐ R.ADC D
 ☐ R.ADC S

Table and floor scales and piece counters.
 FLT 0 - FLT 1 - FLT 2 - FLT 3

Weighbridges/ High precision scales.
 H.R. 0 - H.R. 1

Suspended and oscillating load weighing.
 DYN 0 - DYN 1

Metering, filling, level check and overloads

Liquid weighing, weighbridges and weighing with vibrations.

Filter for specific applications Manufacturer use only.

Division for test of stability

Stability adjustment. The higher the value, the less sensitivity to variations, and therefore the weight is considered stable even in motion. This parameter acts on the instability symbol "u" and affects acquisition of weighs and printing.

0 - 99 (2). 0 = always unstable.

Zero tracking division

With the scale empty, it allows you to maintain the "zero weight" status over time, removing any filth, dust, processing residue within the time set in this step.

For example, setting "1/2 division" resets a weight equal to half division if stable for at least 1 second. Tracking acts at least within the manual zero reset limit, set in the step **A 5**.

☐ No division
 ☐ 1/4 division
 ☒ 1/2 division
 ☐ 1 division
 ☐ 2 divisions
 ☐ 4 divisions
 ☐ 8 divisions
 ☐ 10 divisions

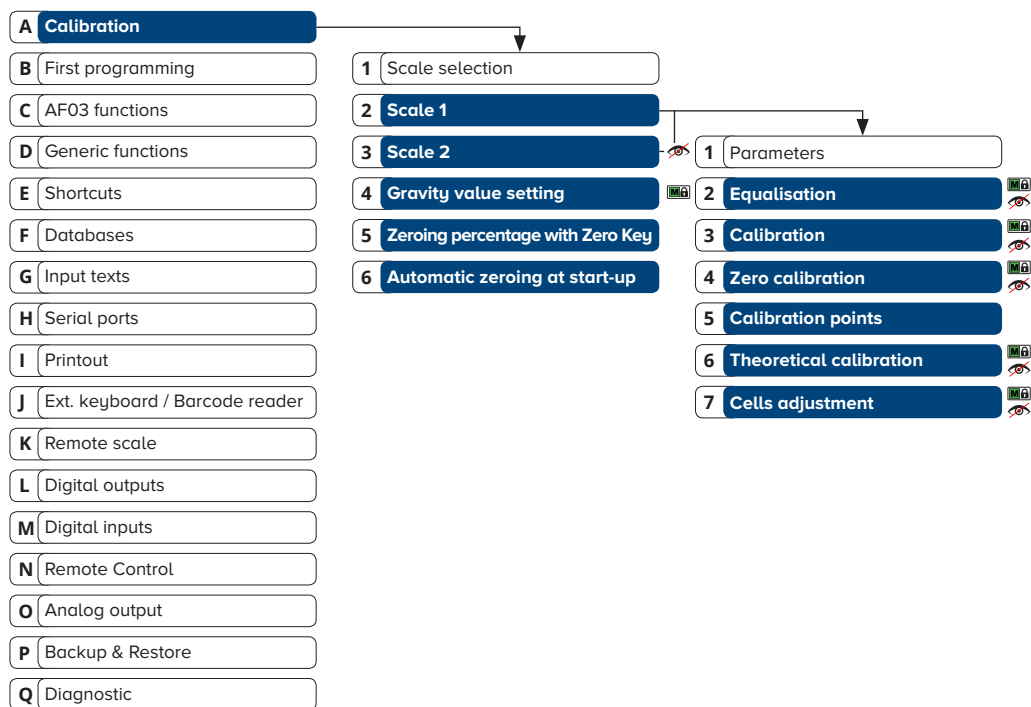
AF03GT

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TECH_MAN_SETUP_ENG_AF03GT_v7

DINI ARGO
 Scales - Weighing systems

Optimized layout for A4 print



KEY:



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Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



A 2 2 **Equalisation**

 Only visible if "Number of cells (Scale) / Number of channels (Scale)" exceeds 1.

Wizard that enables you to digitally equalise the weight angles.

3 **Calibration**

Calibration wizard with the aid of sample masses (or known weights which can be freely set).

4 **Zero calibration**

Wizard to run after having completely calibrated the scale.

With the scale empty, it allows acquisition of the zero point, recalculating all the calibration points in proportion, maintaining the linearity obtained during the last calibration carried out. Useful to reset the structure weight or "dead tare" added at another time.

5 **Calibration points**

Allows you to quickly edit/correct/insert a calibration point.

Point	ADC	Weight	ADC-mV
* 0	0	0	
1	1000000	60000	Ins
2	0	0	Del
3	0	0	Get
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
Esc			

6 **Theoretical calibration**

Wizard for the temporary calibration of the weigh in a quick fashion, inserting in sequence the total range (sum of the ranges) and the average sensitivity of the cells ($\frac{\text{sum of the mV} / \text{V of each cell}}{\text{no. of cells}}$).

The theoretical calibration is useful for testing the system before the official calibration carried out with the sample masses.

7 **Cells adjustment**

 Only visible if "Equalisation" is available.

For weighbridges with digital cells, it quickly modifies the equalisation coefficient of each individual cell. Useful when testing the weighbridge to quickly corrects any errors in the angles.

SCALE. 1		
kg		
Channel	Eq. coeff.	Load %
* 1	1.000000	100.0
2	1.000000	-0.3
Esc - +		

A 4 **Gravity value setting**

If the tool calibrated in a certain area is shipped to a zone with different gravity acceleration, set the destination gravity in the step to automatically correct the weight.

A 5 **Zeroing percentage with Zero Key**

Allows you to freely configure the resetting percentage of the key >0<, from 0 to 50% of F.S.

⚙ 0 - 50% di F.S. (2%)

A 6 **Automatic zeroing at start-up**

Allows you to configure the auto reset function at switch-on:

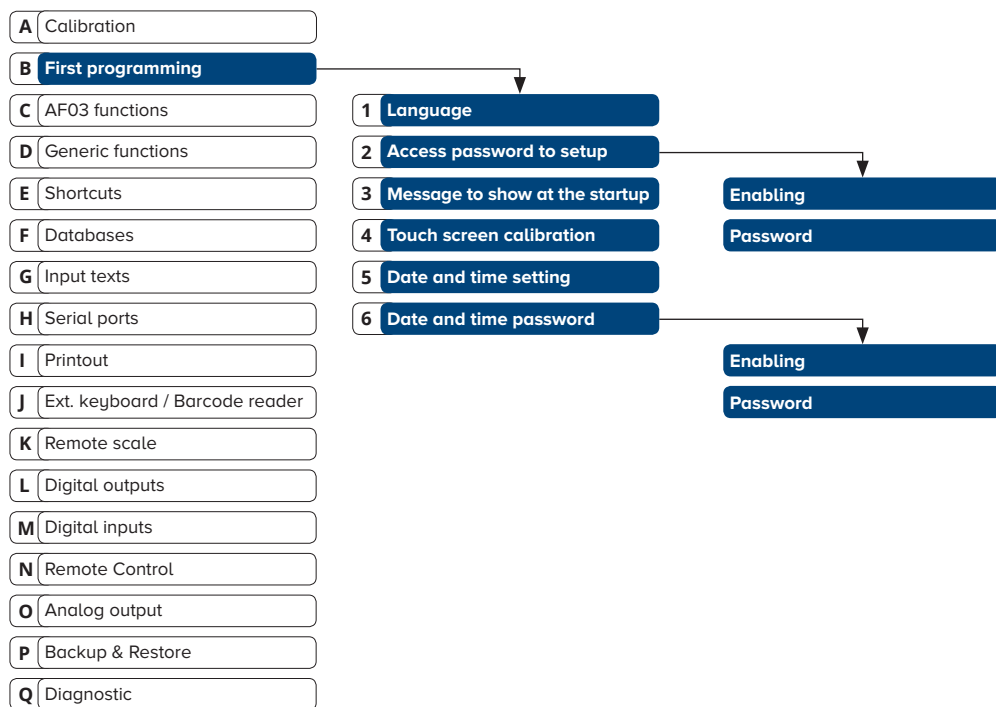
Type

⚙ ☐ Disabled ☒ Enabled on the scale 1 ☐ Cyclic on all the scales

Percentare of zeroing

Allows you to freely configure the resetting percentage at switch-on.

⚙ 1 - 50% di F.S. (10%)



KEY:

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B 1 Language

☒ Italiano
 ☐ English
 ☐ Français
☐ Deutsch
 ☐ Español

You may also add a custom language using the Dini Argeo "CustomLanguageTool" program (Managed page codes: Latin 1, Greek, Cyrillic, Vietnamese).

2 Access password to setup

Allows you to protect the configuration set-up by means of a numerical 5-digit password, which you may freely set.

1 Enabling

☒ Disabled
 ☐ Enabled

2 Password

0 ~ 65534



The password also blocks reception of the set-up by Dinitools (configuration program for pc).

3 Message to show at the startup

Allows you to customise the message displayed when the indicator switches on.

Max. 32 characters



No logo is displayed when the switch-on message is inserted.

4 Touch screen calibration

Wizard to correctly calibrate the touch screen display, by pressing the displayed point.

5 Date and time setting

Configuration of the date and time of the tool. Function which can also be accessed from the weighing screen.

Date and time setting

01 / 01 / 16

16 : 00

Cancel OK

6 Date and time password

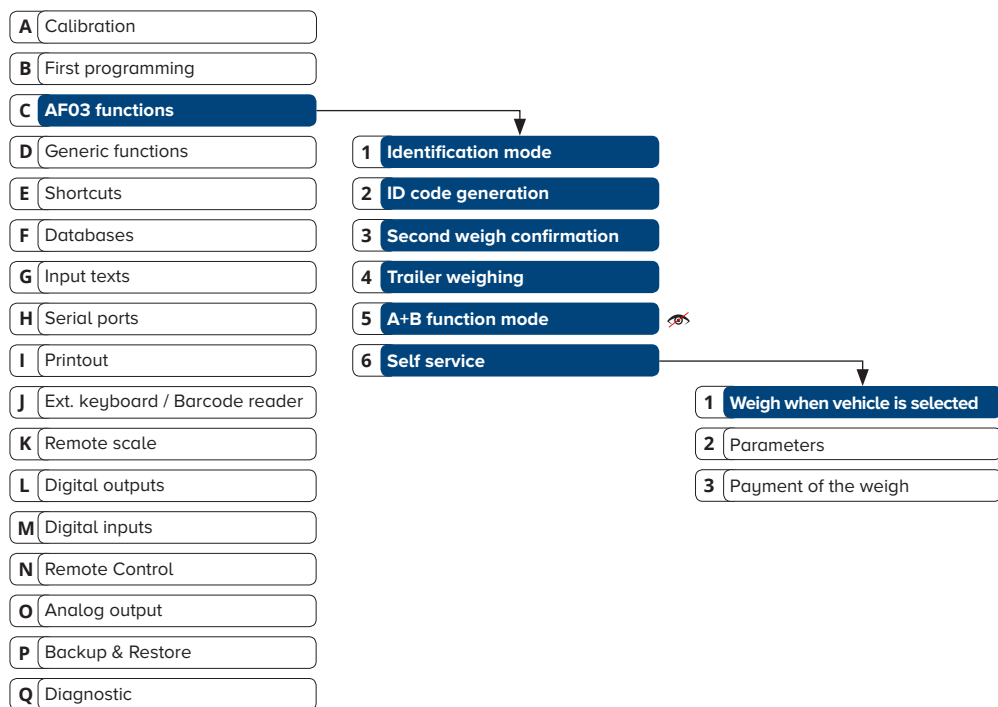
Date and time password configuration.

1 Enabling

☒ Disabled
 ☐ Enabled

2 Password

0 ~ 65534



KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



C 1 Identification mode

Allows you to select the type of identification of the first weigh.


☒ By ID code
 ☐ By license plate

The "ID Code" is a progressive number from 1 to 999.

It is automatically associated to the first weigh stored and can be quickly recalled during acquisition of the second weigh, to calculate the net weight.

When the second weigh has been carried out, the ID is free and can be used once again.

By choosing the identification mode "Via number plate", the first weigh is linked to the vehicle number plate.

The number plate can be entered manually at each weigh or else stored in the database.

2 ID code generation

The ID attributed to the weigh can be progressive from 1 to 999 (it restarts from 1 when weigh 999 is reached), or the first free ID (each ID is freed when the first/second weigh transaction is completed).


☐ Using the first free ID code
 ☒ Always a next ID code

3 Second weigh confirmation

This displays the summarised screen at the end of acquisition of the second weigh.

The operator can confirm to conclude the first/second weigh transaction or make the necessary changes to the records.

The confirmation activates the storage and printing of the transaction and makes it possible to print several copies of the issued receipt.


☐ Disabled
 ☒ Enabled

4 Trailer weighing

Activating this function allows you to weigh vehicles with trailer in two distinct weighs.

The first/second weigh transaction is based on the sum of the two weighs.

This feature is available both with the single weighbridge system and the 2 weighbridge system.


☒ Disabled
 ☐ Enabled

5 A+B function mode

If the system consists of 2 platforms, it is possible to activate feature "A+B".


☒ Disabled
 ☐ Enabled

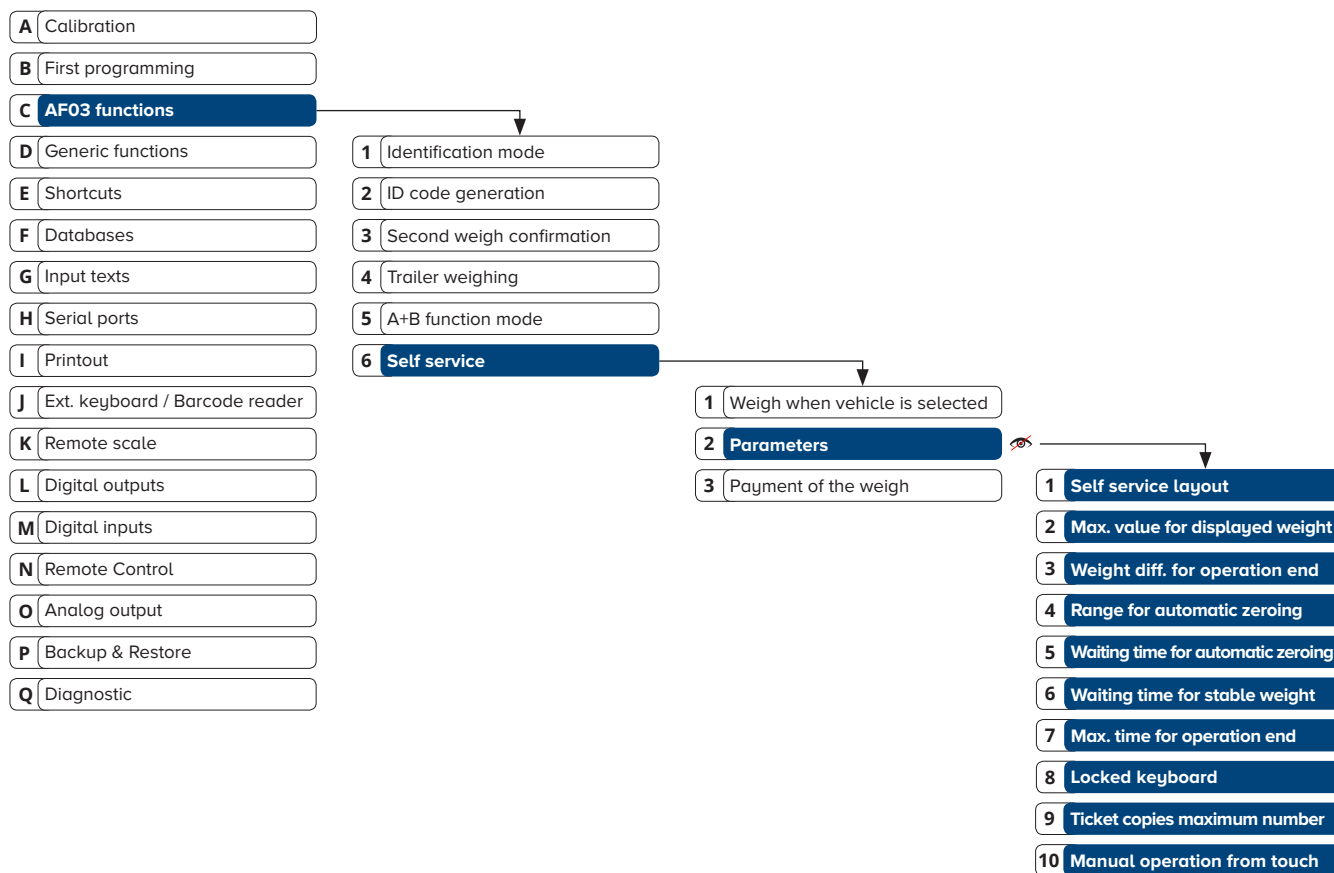
6 Self service

Allows you to set the instrument for the vehicle's automatic weighing and weighing identification, even when the authorised personnel is absent.

1 Weigh when vehicle is selected

Selection of self service mode:


☒ Disabled
 ☐ Automatic double weight
☐ Automatic single weight
 ☐ Automatic printoutwith fee



KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



C 6 2 1 Self service layout

Activates the “self service” and specific prints display for use by the manufacturer (the current prints and screens are replaced by default ones)

⚙️ ☒ Disabled ☐ Enabled

2 Max. value for displayed weight

Inhibits the display when the weight rises beyond the threshold set in this parameter. You must identify yourself to view the weight. This way the weighbridge can only be used by identified users.

⚙️ 0 ~ Max (0).

3 Weight diff. for operation end

The value set in this parameter is relative to the weight value that must be changed to execute new weighing without going back to 0.

⚙️ 0 ~ Max (0).

4 Range for automatic zeroing

The weight is automatically reset only if it is between 0 and the threshold set in this parameter, and depends on the values set in "Automatic reset standby" and "Stable weight standby".

⚙️ 0 ~ Max (0).

5 Waiting time for automatic zeroing

When the weight returns within the range, the reset can be delayed by the time set in this parameter.

⚙️ 0 ~ 999999s (0).

6 Waiting time for stable weight

If the driver needs to get out of the vehicle to identify himself, this time can be increased to allow the way to stabilise.

⚙️ 0 ~ 999999s (0).

7 Max. time for operation end

Maximum time after which the operation is declared completed. If weighing is carried out and the vehicle remains on the scale, after the number of seconds set, the indicator is ready to weigh again and requests operator identification.

⚙️ 0 ~ 999999s (0).

8 Locked keyboard

It is possible to inhibit the functions of the keyboard/touch screen to prevent unintentional pressing of the keys. In this condition, the weigh and activation of the records are only carried out through recognition of the card.

⚙️ ☒ Disabled ☐ Enabled ☐ Enabled waiting coins/card

9 Ticket copies maximum number

Allows you to set the number of copies printed automatically at each weigh.

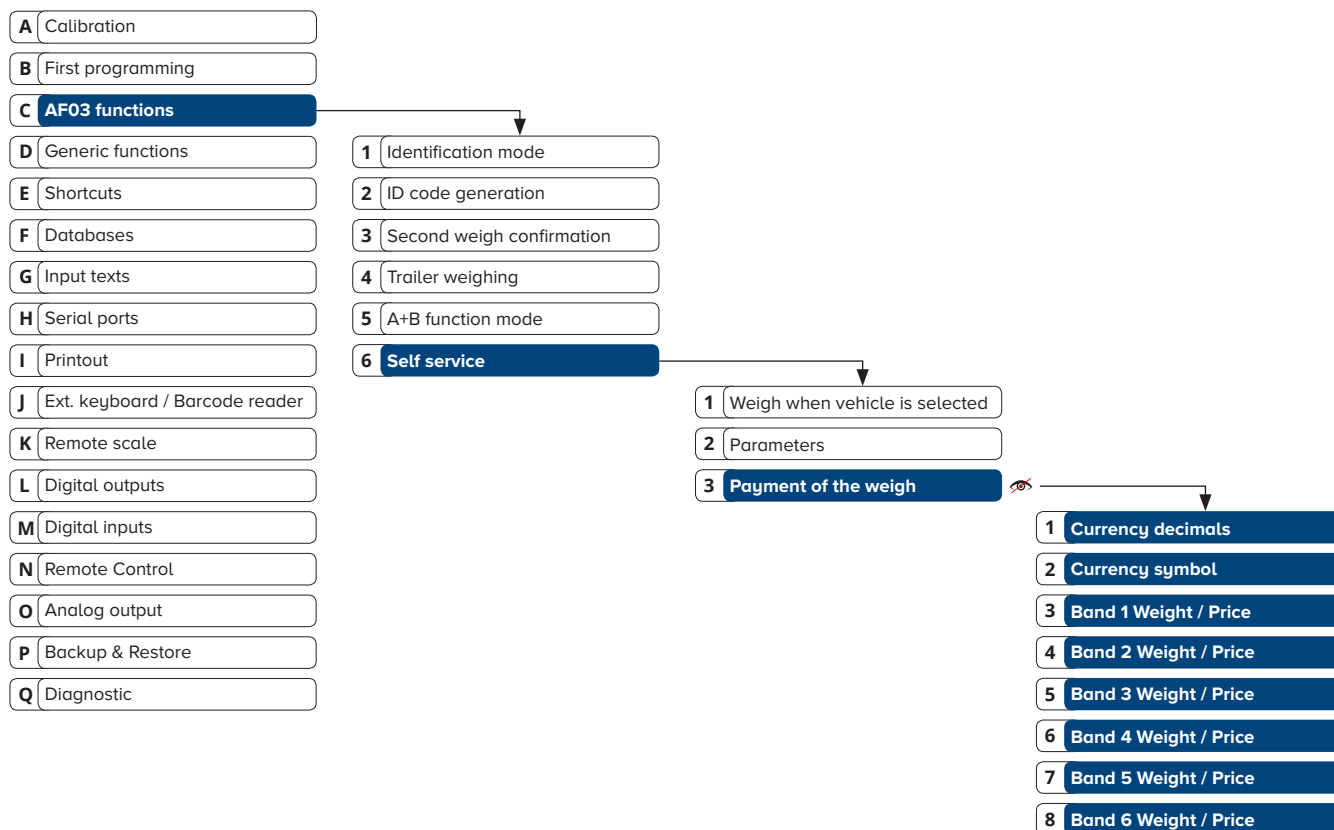
⚙️ 1 ~ 10 (1).

10 Manual operation from touch

Permanently displays the “self service with manual confirmation” operating screen. This screen has the advantage of requiring the driver to manually fill out some or all of the records. Useful for example when the same vehicle can transport different materials for different suppliers, to be indicated when performing the weigh.

⚙️ ☒ Disabled ☐ Enabled

Or else this screen can only be enabled for certain vehicles by appropriately filling out the cards database.



KEY:



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Possible configurations of the parameter.



o (x) Indicates the default configuration.



C 6 3 Payment of the weigh



Only visible if "Weigh - selected vehicle = Print auto payment".

Payment mode configuration menu both with card and with "Coin reader" protocol active.



The "Coin reader" protocol is activated in parameter H 4 8

Currency decimals

Allows you to set the number of decimals of the currency.

⚙ 1 ~ 5 (0).

Currency symbol

Printer: sets the decimal ASCII character of the currency for printing (e.g.: € = 164; \$=36; £=156, etc. depending on the page code of the printer).

⚙ 0 ~ 255 (1).

Display: sets the decimal ASCII character of the currency viewed on the display (e.g.: € = 164; \$=36; £=156, etc. depending on the page code of the selected language).

⚙ 0 ~ 255 (1).

Band 1 Weight / Price



Band 6 Weight / Price

Weight threshold 1: weight threshold below which the price is that specified in the next step, "Price threshold 1".

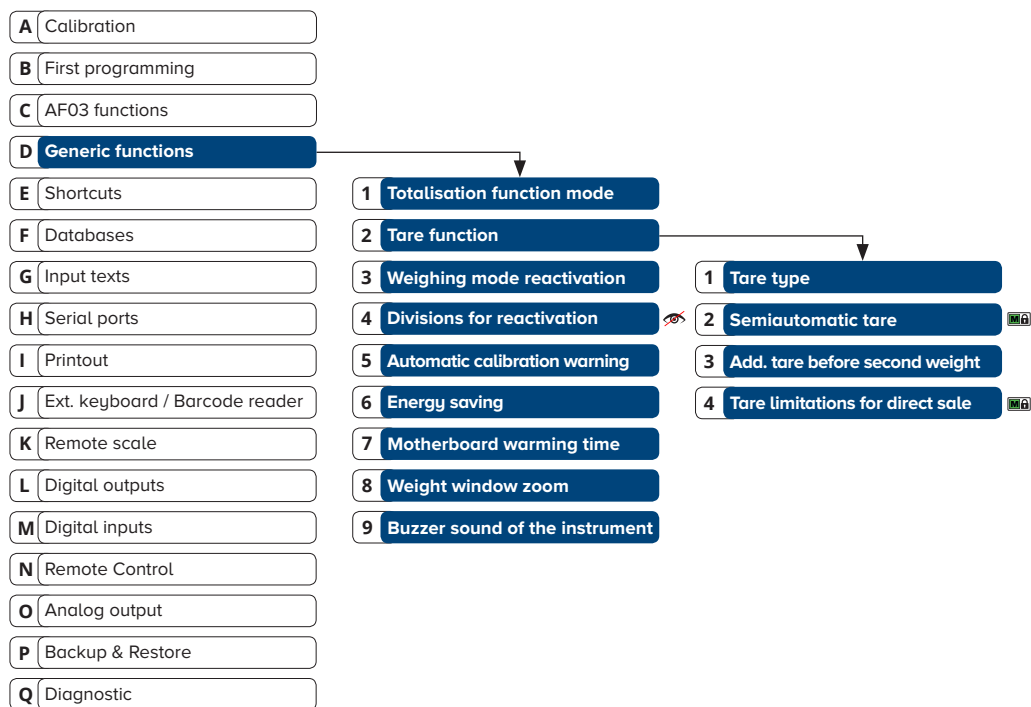
⚙ 0 ~ Max. (0)

Price threshold 1: the price of the weigh from 0 kg to "Weight threshold 1".

⚙ 0 ~ 999999 (0)



If the function "Max weight displayed" (ref. C 6 2 2) has been activated, set "Weight threshold 1" equal to the inhibition weight and "Price threshold 1" equal to 0 kg.



KEY:



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Parameter or menu subject to approval.



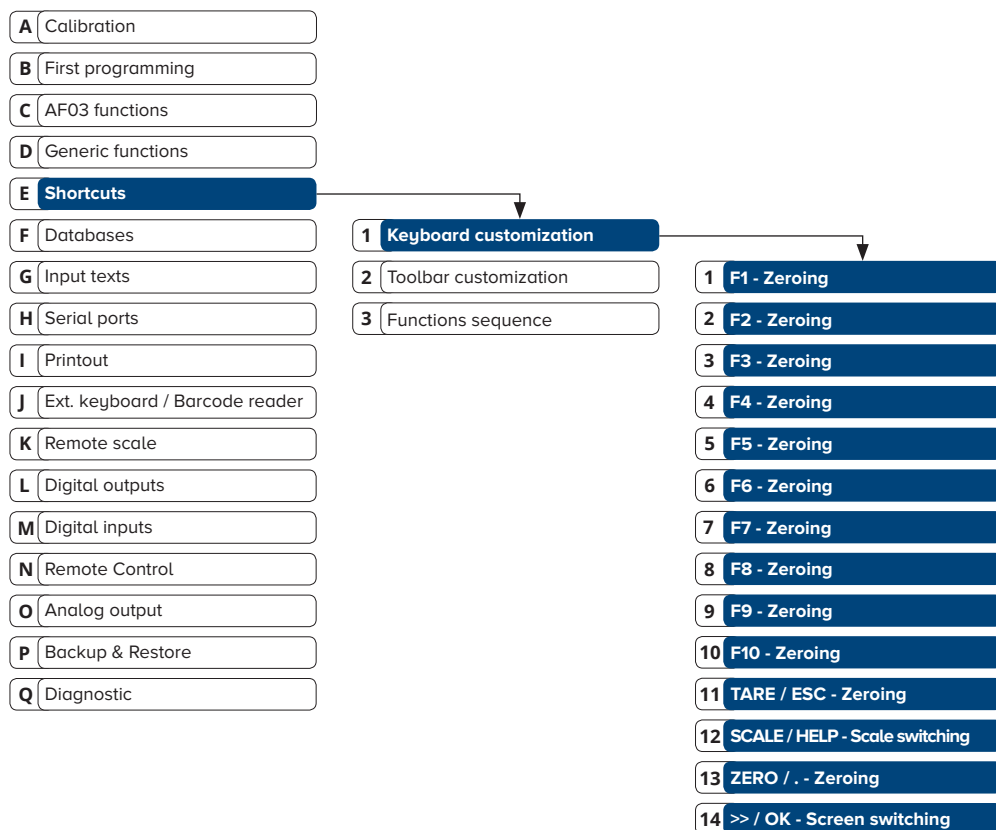
Possible configurations of the parameter.



o (x) Indicates the default configuration.



D 1 Totalisation function mode	Manufacturer use only.
2 Tare function	Tare functions configuration menu (if active on main screen).
1 Tare type	<p>To avoid incorrect weighs, you may decide that the stored tare be cancelled automatically when the weighbridge is unloaded ("Unlocked").</p> <p>If the tare is fixed and must remain active for several weighs, select "Locked"; this way the tare can only be cancelled manually.</p> <p>Selecting "Disabled" inhibits every tare function.</p> <p> ☐ Unlocked ☒ Locked ☐ Disabled </p>
2 Semiautomatic tare 	<p> ☐ Disabled ☒ Enabled </p>
3 Add. tare before second weight	Enable the request to enter the additional tare on weighing output.
4 Tare limitations for direct sale 	Manufacturer use only.
3 Weighing mode reactivation	<p>To avoid double acquisitions, you may decide whether the weighing functions, after a weigh, only reactivates after having unloaded the weighbridge ("Plate unloaded") or with unstable weight.</p> <p> ☒ Weight instability ☐ Complete scale unloading </p>
4 Divisions for reactivation 	<p> Only visible if "Weighing reactivation mode" = "Weight instability"</p> <p>If reactivation is set at "Weight instability", you may program the number of offset divisions from the recorded weigh to achieve reactivation.</p> <p> ☐ 1 ~ 99 (2). </p>
5 Automatic calibration warning	<p>Periodical weigh recalibration request warning by means of a displayed message.</p> <p>The warning is not blocking.</p>
Number of months	☐ Number of months after which to view the message
Number of weighs	☐ Number of weighs carried out after which to view the message
6 Energy saving	Useful for battery operated systems, reducing consumption during idle periods.
Automatic Switch-off	<p>Automatic switch-off after 5 minutes not used, with scale empty</p> <p> ☒ Disabled ☐ Enabled </p>
Screen timeout & Battery visual.	<p>Switches off display back-lighting after 15 seconds (only when battery-operated).</p> <p> ☐ Disabled ☒ Enabled </p>
7 Motherboard warming time	<p>For special applications, a heating time of the motherboard can be set to avoid weight oscillations in the early moments when the weighbridge is switched on.</p> <p> ☐ 0 ~ 60 (0). </p>
8 Weight window zoom	<p>Activates automatic display of the weight with large digits. This display is activated with weight stable and deactivated when the weight is unstable.</p>
Enabling	☒ Disabled ☐ Enabled
Activation delay time 	<p> Only visible if "Zoom weight display" = "Enabled"</p> <p>Large digit weight activation can be delayed by the time set in this parameter.</p> <p> ☐ 0 ~ 255 (5). </p>
9 Buzzer sound of the instrument	<p>Activates the audible warnings (buzzer) by pressing keys and with error conditions.</p> <p> ☐ Disabled ☒ Enabled </p>



KEY:



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E 1 Keyboard customization

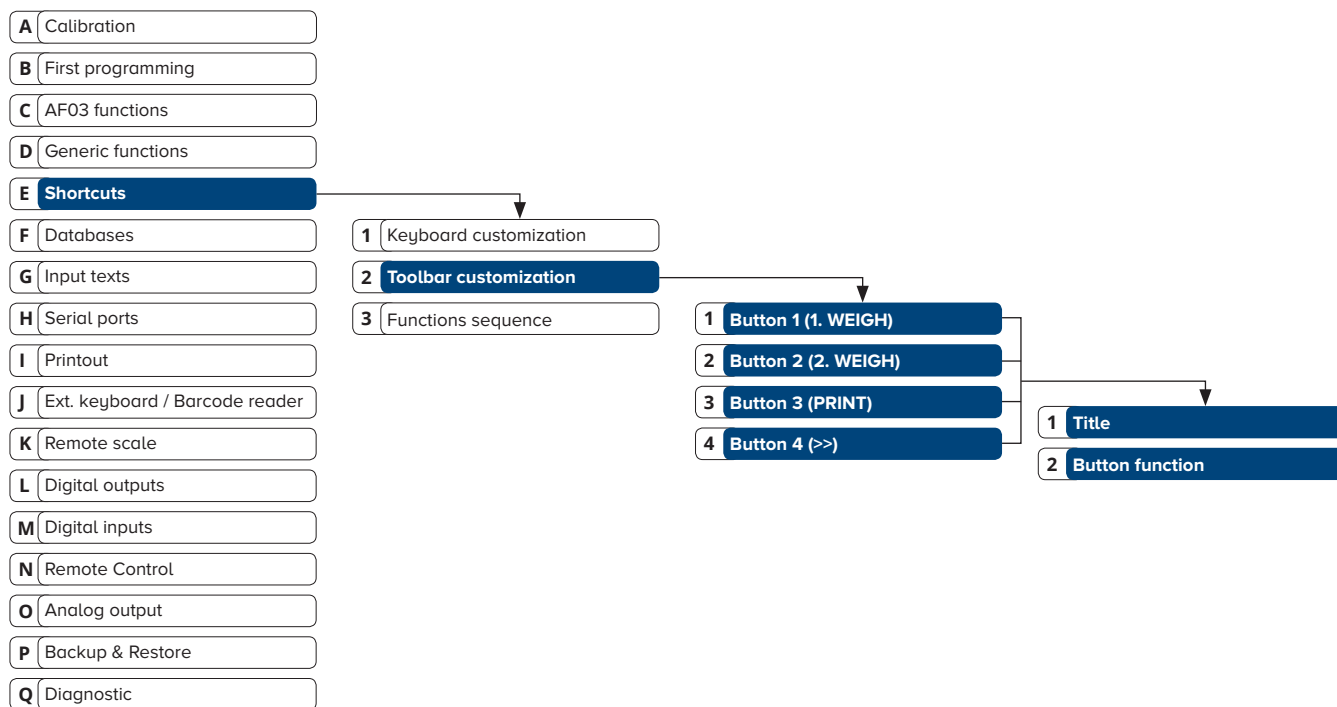
Allows you to configure the function of each key of the integrated keypad, if present.

The configuration menu of a key is displayed below (in following example "F1")

<div style="background-color: #003366; color: white; padding: 2px 5px; margin-bottom: 5px;">1 F1 - Zeroing</div>	<div style="margin-bottom: 10px;"> ☐ Disabled </div> <div style="margin-bottom: 10px;"> ☐ User setup </div> <div style="margin-bottom: 10px;"> ☐ User setup function by index </div> <div style="margin-bottom: 10px;"> ☒ Single function (101) </div> <div style="margin-bottom: 10px;"> ☐ Sequence 1 </div> <div style="text-align: center; margin-bottom: 10px;">...</div> <div> ☐ Sequence 10 </div>	<p>Key disabled.</p> <p>Match the "user menu": by pressing the key F1, in weighing, you access the menu which contains all the additional functions for the user.</p> <p>Matches the recall of the function by means of index: by pressing the key F1, in weighing, the user is requested to enter the identification number code of the function to carry out.</p> <p>Matches the direct recall of the function set: by pressing the key F1, in weighing, the function to be carried out is activated (for example reset, print, tare, set point programming etc.). When this mode has been selected, you directly access the "user menu" where all the available functions can be viewed (page 62).</p> <p>It is possible to match one of the 10 operational sequences. Each sequence can be programmed freely and allows you to queue up to 10 different functions, which will be recalled automatically, one after the other, by pressing the key F1. For example the operator can be requested to enter 5 free texts in sequence, to perform the first weigh and to issue a receipt.</p>
--	---	---

The following is the default configuration of the other keys:

2 F2 - Zeroing	☒ Single function (101)	Weight reset.
3 F3 - Zeroing	☒ Single function (101)	Weight reset.
4 F4 - Zeroing	☒ Single function (101)	Weight reset.
5 F5 - Zeroing	☒ Single function (101)	Weight reset.
6 F6 - Zeroing	☒ Single function (101)	Weight reset.
7 F7 - Zeroing	☒ Single function (101)	Weight reset.
8 F8 - Zeroing	☒ Single function (101)	Weight reset.
9 F9 - Zeroing	☒ Single function (101)	Weight reset.
10 F10 - Zeroing	☒ Single function (101)	Weight reset.
11 TARE / ESC - Zeroing	☒ Single function (101)	Weight reset.
12 SCALE / HELP - Scale switching	☒ Single function (108)	Switching of active scale.
13 ZERO / . - Zeroing	☒ Single function (101)	Weight reset.
14 >> / OK - Screen switching	☒ Single function (301)	Switching of screen.



KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



E 2 **Toolbar customization**

Allows you to configure the title and the function of the toolbar buttons



The configuration menu of a toolbar key is displayed below (in following example “1. WEIGH”)

1 **Button 1 (1. WEIGH)**

Title

Allows you to edit the displayed title.
⚙ Max. 8 characters (1.WEIGH).

Button function

⚙ ☐ Disabled

Key disabled.

☐ User setup

Match the “user menu”: by pressing the key, in weighing, you access the menu which contains all the additional functions for the user.

☐ User setup function by index

Matches the recall of the function by means of index: by pressing the key, in weighing, the user is requested to enter the identification number code of the function to carry out (page 62).

☒ Single function (701)

Matches the direct recall of the function set: by pressing the key, in weighing, the function to be carried out is activated (for example reset, print, tare, set point programming etc.). When this mode has been selected, you directly access the “user menu” where all the available functions can be viewed (page 62).

☐ Sequence 1

It is possible to match one of the 10 operational sequences.

...

☐ Sequence 10

Each sequence can be programmed freely and allows you to queue up to 10 different functions, which will be recalled automatically, one after the other, by pressing the key.

For example the operator can be requested to enter 5 free texts in sequence, to perform the first weigh and to issue a receipt.

The following is the default configuration of the other keys:

2 **Button 2 (2. WEIGH)**

Title

⚙ 2.WEIGH

Button function

⚙ ☒ Single function (702)

3 **Button 3 (PRINT)**

Title

⚙ PRINT

Button function

⚙ ☒ Single function (202)

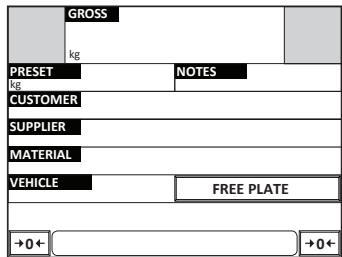
4 **Button 4 (>>)**

Title

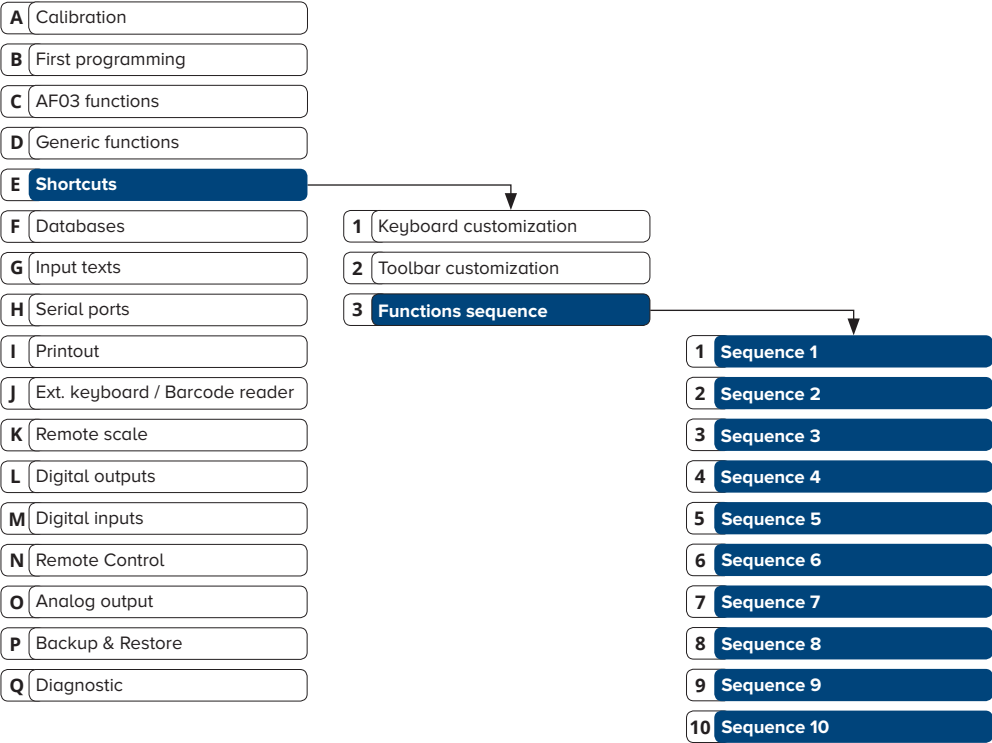
⚙ >>

Button function

⚙ ☒ Single function (301)



Disabling all the keys increases the space available for customisations.
The message box drops to the bottom of the screen.



KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.



OPERATIONAL SEQUENCES

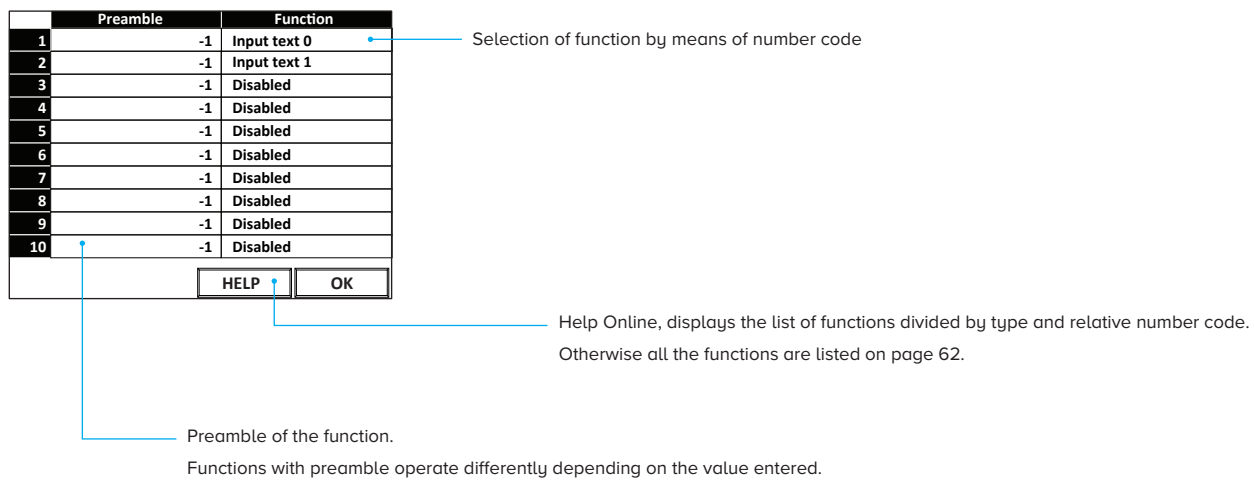
The program provides up to 10 operational sequences.

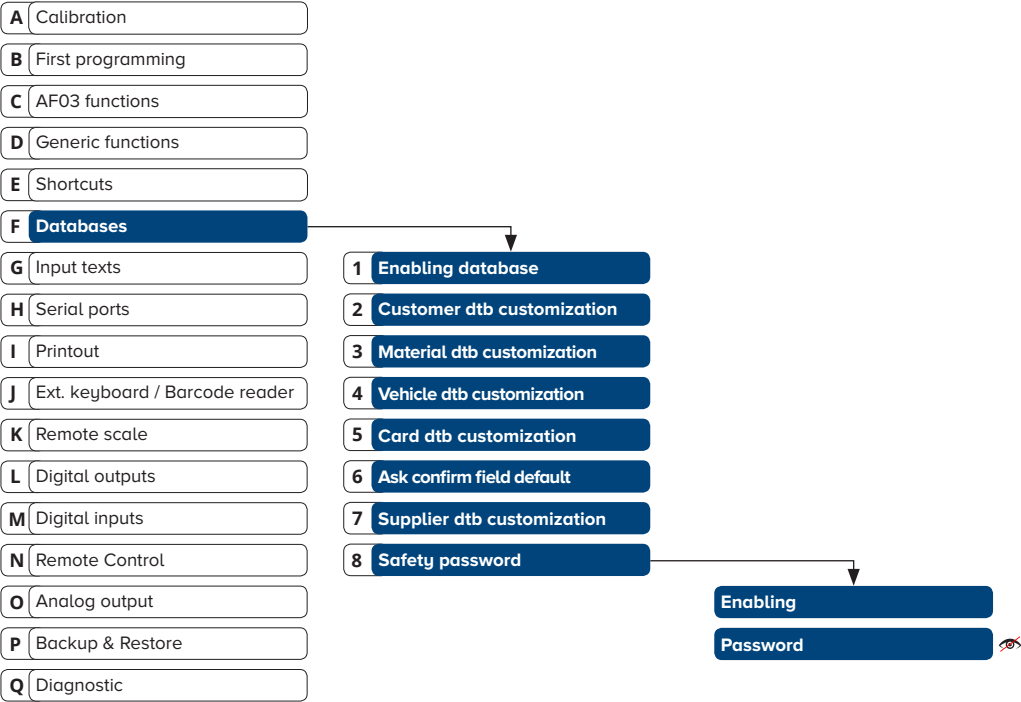
Each sequence can be programmed freely and allows you to queue up to 10 different functions, which will be recalled automatically, one after the other.

For example the operator can be requested to enter 5 free texts in sequence, to perform the first weigh and to issue a receipt.



Once you have selected the sequence you want to edit, the following screen appears:





Enabling

Password



Diagram illustrating the navigation flow for the **Databases** menu.

The main menu **F Databases** branches into a list of 8 items:

- 1 Enabling database**
- 2 Customer dtb customization**
- 3 Material dtb customization**
- 4 Vehicle dtb customization**
- 5 Card dtb customization**
- 6 Ask confirm field default**
- 7 Supplier dtb customization**
- 8 Safety password**

The **8 Safety password** item further branches into two sub-items:

- Enabling**
- Password** (marked with an eye icon, indicating it is visible only in certain conditions).

KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.



F 1 Enabling database

Allows you to select the records you want to use by simplifying database programming.

☒ Customer dtb
 ☒ Material dtb
☒ Vehicle dtb
 ☒ Card dtb
☒ Suppliers dtb

2 Customer dtb customization

Allows you to configure the required fields while filling out the customers database.

☒ Description 2
 ☒ Description 3
☒ Payment system
 ☒ Credit

3 Material dtb customization

Allows you to configure the required fields while filling out the materials database.

☒ Description 2

4 Vehicle dtb customization

Allows you to configure the required fields while filling out the vehicles database.

☒ Description
 ☒ Tare
 ☒ Trailer weighing

5 Card dtb customization

Allows you to configure the required fields while filling out the cards database.

☒ Linked customer
 ☒ Linked material
 ☒ Linked vehicle
☒ Linked supplier
 ☒ Ask confirm before weigh
 ☒ Direction

6 Ask confirm field default

Allows you to decide the default condition of the "Weigh confirmation request" parameter in the cards database.

☒ Disabled
 ☐ Enabled

7 Supplier dtb customization

Allows you to configure the required fields while filling out the suppliers database.

☒ Description 2
 ☒ Description 3

F 8 Safety password

Allows you to enable the access password to fill out the databases. The password is common for all databases.

1 Enabling

☒ Disabled
 ☐ Enabled

2 Password



Only visible if "Enabling = Enabled".

0 ~ 65635 (0).

A	Calibration	
B	First programming	
C	AF03 functions	
D	Generic functions	
E	Shortcuts	
F	Databases	
G	Input texts	
H	Serial ports	1 (0000) NOTE 1
I	Printout	2 (0001) NOTE 2
J	Ext. keyboard / Barcode reader	3 (0002) Empty
K	Remote scale	4 (0003) Empty
L	Digital outputs	5 (0004) Empty
M	Digital inputs	6 (0005) Empty
N	Remote Control	7 (0006) Empty
O	Analog output	8 (0007) Empty
P	Backup & Restore	9 (0008) Empty
Q	Diagnostic	10 (0009) Empty
		11 (0010) Empty
		12 (0011) Empty
		13 (0012) Empty
		14 (0013) Empty
		15 (0014) Empty

KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.



TESTI DI INPUT

The input texts are 15 memories filled out by the operator during weighing.
 They are used to enter information related to the weigh in progress (for example batch number, origin, operator code, a comment, traceability or visual quality control notes, etc.).

- Each input text consists of two parts:
- the header (16 characters) to identify and easily distinguish the input text (for example "BATCH:");
 - the content (32 characters), filled out by the operator (for example "201601123455").

i The content of the input text can be programmed manually or by means of an external reader (barcode, chip card, badge, RFID).

The configuration menu of a free text is displayed below (in following example "input text 1")

G

1

(0000) NOTE 1

Text 0000/0014

Description	NOTE 1
Text	
Threshold	32
Mandatory input	Disabled
Only void input	Disabled

←

DELETE

Header of input text.

Content: filled out by the operator during weighing.
 When filling out the set-up field, it is shown to the operator as default text.

If the value received by the reader exceeds the set limit, it is saved in input text no.2

If enabled, once you have entered to fill out the free text, you may not exit without entering a value.

If enabled, the text can only be filled out if the text is not filled out.

The following is the default configuration of the following input texts:

- G 2 (0001) NOTE 2
- 3 (0002) Empty
- 4 (0003) Empty
- 5 (0004) Empty
- 6 (0005) Empty
- 7 (0006) Empty
- 8 (0007) Empty
- 9 (0008) Empty
- 10 (0009) Empty
- 11 (0010) Empty
- 12 (0011) Empty
- 13 (0012) Empty
- 14 (0013) Empty
- 15 (0014) Empty

i Input texts can be viewed directly on the work screen, either under the form of buttons to access the content and as simple alphanumerical keys to read only.

GROSS		
kg		
PRESET	NOTES	
CITY	ADDRESS	
DRIVER	LOT	
MATERIAL		
VEHICLE	FREE PLATE	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT >>

A	Calibration
B	First programming
C	AF03 functions
D	Generic functions
E	Shortcuts
F	Databases
G	Input texts
H	Serial ports
I	Printout
J	Ext. keyboard / Barcode reader
K	Remote scale
L	Digital outputs
M	Digital inputs
N	Remote Control
O	Analog output
P	Backup & Restore
Q	Diagnostic

1	Serial ports function mode
2	Printer port configuration
3	Pc port configuration
4	Auxiliary port configuration
5	Network configuration
6	Radio Frequency interface
7	Ethernet interface
8	Bluetooth interface

1	Baud rate
2	Parity type
3	Word length
4	Stop bit
5	CTS status
6	CTS Emulation Chars Number 
7	CTS Emulation interval 
8	XON Character 
9	XOFF Character 
10	1st Reset command byte 
11	2nd Reset command byte 
12	3rd Reset command byte 
13	4th Reset command byte 
14	Second CTS status
15	Show the CTS error 
16	Printer error timeout 
17	Check paper status 
18	Printer power supply
19	Protocol
20	Weight type to Alibi 

KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



H 1 Serial ports function mode

The three serial ports with which the tool is equipped can be used indiscriminately to communicate:

- in two-way mode with the PC ("PC" mode);
- in one-way mode with PC, printer, repeater and USBC memory ("Print." mode);
- in two-way mode with other auxiliary systems ("Aux." mode).

☒ 1=Pc 2= Printer 3=Aux
 ☐ 1=Pc 2= Aux 3=Printer
 ☐ 1=Printer 2= Pc 3=Aux
☐ 1=Printer 2= Aux 3=Pc
 ☐ 1=Aux 2= Pc 3=Printer
 ☐ 1=Aux 2= Printer 3=Pc

Serial ports | Printer port configuration

H 2 1 Baud rate

1200 - 2400 - 4800 - 9600 - 19200 - 38400 - 57600 - 115200 (9600).

2 Parity type

☒ None
 ☐ Odd
 ☐ Even

3 Word length

☐ 7 bits
 ☒ 8 bits

4 Stop bit

☒ 1 bit
 ☐ 2 bits

5 CTS status

Synchronism signal of printer/connected device:

Mod. "TPR" / "PR80" Dini Argeo: Low Mod. "LP542S" / "SMTPLUS" Dini Argeo: Low
 Mod. "LX300" / "TM295" Epson: Low Mod. "USBC" Dini Argeo: Low

☐ Disabled
 ☒ Low
 ☐ High
☐ Emulated
☐ XON/XOFF

6 CTS Emulation Chars Number

Manufacturer use only.

7 CTS Emulation interval

Manufacturer use only.

8 XON Character

Manufacturer use only.

9 XOFF Character

Manufacturer use only.

10 1st Reset command byte

Manufacturer use only.

11 2nd Reset command byte

Manufacturer use only.

12 3rd Reset command byte

Manufacturer use only.

13 4th Reset command byte

Manufacturer use only.

14 Second CTS status

Synchronism signal of second printer / connected device (terminal 19 of motherboard).

☒ Disabled
☐ Enabled

15 Show the CTS error

Only visible if "Second CTS status" = "Enabled" or if "CTS status" ≠ "Disabled"

Useful when printing is fundamental and the weight must not be acquired if the printer is not ready.

☐ Disabled
☒ Enabled

16 Printer error timeout

Manufacturer use only.

17 Check paper status

Manufacturer use only.

18 Printer power supply

Select "external power supply" mode for all printers powered by their own power supply.

Select "internal power supply" mode if the Dini Argeo printer mod. "TPR" is powered directly by the motherboard of the tool.

☐ External
☐ External auto switch off
☒ Internal

19 Protocol

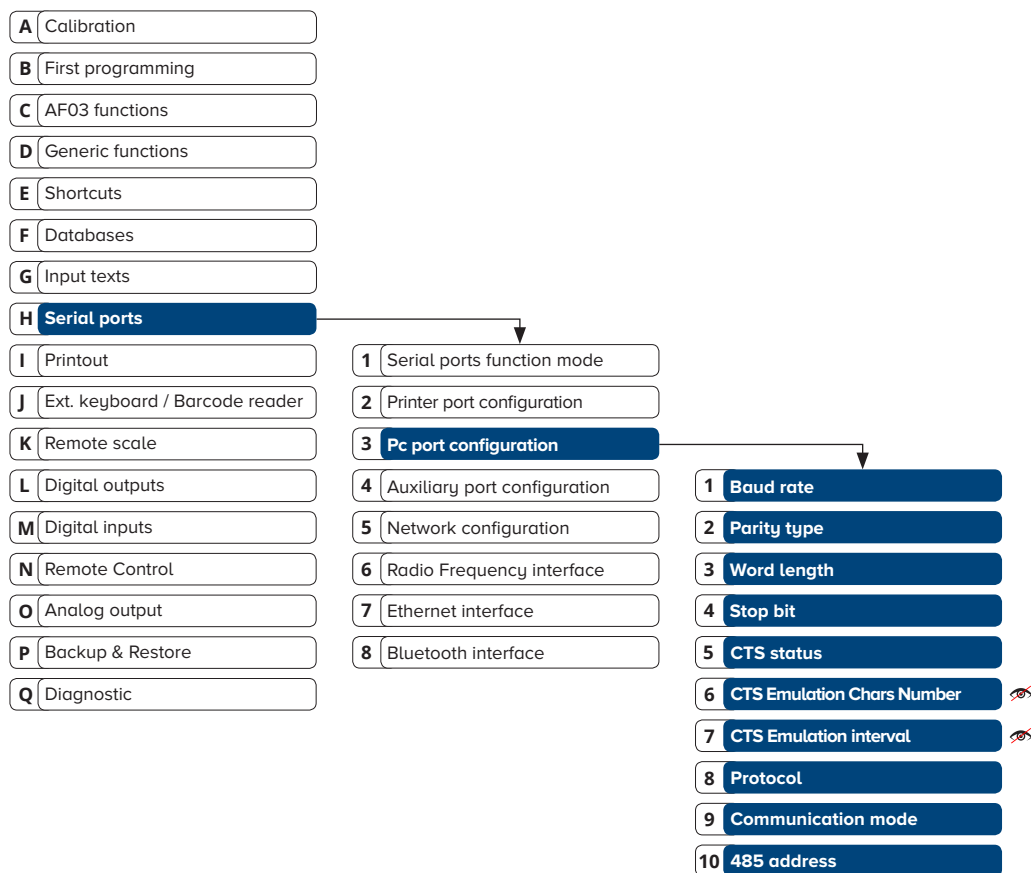
☒ Standard For printer.
☐ Repeater 6 digits For repeater mod. Dini Argeo
☐ For alibi memory Each weigh will be stored in the alibi memory (to be able to print the alibi value at each weigh, the printed format must be modified with the adequate macro).
☐ Continuous Continuous transmission of standard weight string.

20 Weigh type to alibi

Only visible if "Protocol" = "Alibi memory".

You may select which weight to save in the alibi memory, in addition to the tare value:

☒ Gross weight
☐ Net weight



KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



- H 3 1 Baud rate
- 2 Parity type
- 3 Word length
- 4 Stop bit
- 5 CTS status

1200 - 2400 - 4800 - 9600 - 19200 - 38400 - 57600 - 115200 (9600).

None ☒ Odd ☐ Even ☐

7 bits ☐ 8 bits ☒

1 bit ☒ 2 bits ☐

Synchronism signal of printer/connected device:

Mod. "TPR" / "PR80" Dini Argeo: Low Mod. "LP542S" / "SMTPLUS" Dini Argeo: Low
Mod. "LX300" / "TM295" Epson: Low Mod. "USBC" Dini Argeo: Low

Disabled ☒ Low ☐ High ☐
Emulated ☐

Set "disabled" to communicate with the PC.



In the PC port, the CTS signal is managed by the RX pin.

- 6 CTS Emulation Chars Number
- 7 CTS Emulation interval
- 8 Protocol

For use by the manufacturer

For use by the manufacturer

Setting the communication protocol

Standard ☒ To transmit the standard DINI ARGEO string.
Extended ☐ To transmit the extended string.
Repeater 6 digits ☐ For repeater mod. DINI ARGEO.
Repeater of Lcd display ☐ -
Monodirectional ☐ -
For alibi memory ☐ Each weigh is stored in the alibi memory and transmitted to the PC.
SMA ☐ -
Modbus ☐ -
Profibus ☐ -
Type B ☐ -
Repeater B ☐ -
Type B3 ☐ -
Type B4 ☐ -
Network ☐ Activates the "network between tools" mode.
Coin reader ☐ Allows you to communicate with the connected DINI ARGEO coin reader.
Repeater GLR100 Numeric ☐ For repeater mod. DINI ARGEO.
Repeater GLR100 Alphanumeric ☐ For repeater mod. DINI ARGEO.

- 9 Communication mode

Selection of the communication mode:

On demand ☒ The tool responds or runs operations according to the command received.
Continuous ☐ Continuous transmission of standard weight string.
Stability ☐ The tool transmits the standard weight string whenever the weight is stabilised.
RS485 mode ☐ Communication with RS485 identification number code.
Commands without code or with a different code will be ignored.
Upon end cycle ☐ String sent at the end of the first/second weigh cycle.

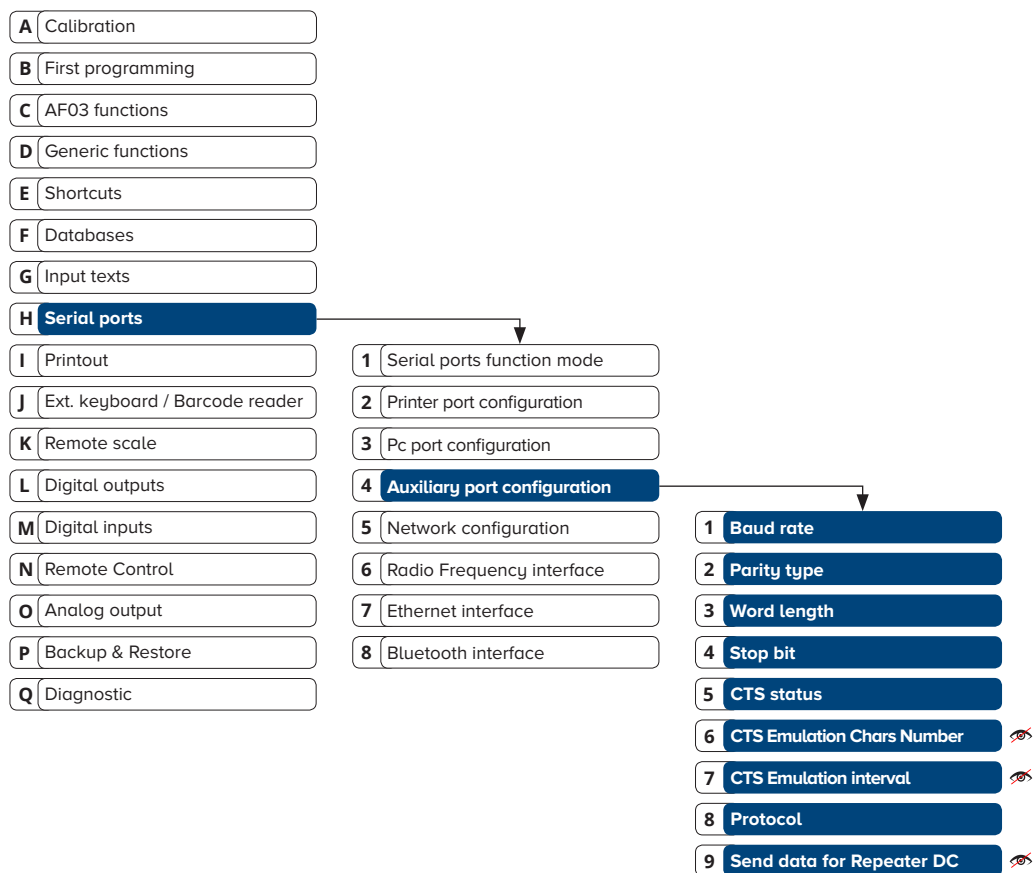
- 10 485 address

If the communication mode is "RS485", set the identification code of the tool.

0...99 (0).



To dialogue with the scale you must add the identification code of the tool at the start of each command.



KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



H 4 1 Baud rate

2 Parity type

3 Word length

4 Stop bit

5 CTS status

6 CTS Emulation Chars Number

7 CTS Emulation interval

8 Protocol

9 Send data for Repeater DC

⚙️ 1200 - 2400 - 4800 - 9600 - 19200 - 38400 - 57600 - 115200 (9600).

⚙️ ☒ None ☐ Odd ☐ Even

⚙️ ☐ 7 bits ☒ 8 bits

⚙️ ☒ 1 bit ☐ 2 bits

Synchronism signal of printer/connected device:
Mod. "TPR" / "PR80" Dini Argeo: Low Mod. "LP542S" / "SMTPLUS" Dini Argeo: Low
Mod. "LX300" / "TM295" Epson: Low Mod. "USBC" Dini Argeo: Low

⚙️ ☒ Disabled ☐ Low ☐ High
☐ Emulated

Set "disabled" to communicate with the PC.

For use by the manufacturer

For use by the manufacturer

⚙️ ☒ Disabled -

☐ Standard To transmit the standard DINI ARGEO string.

☐ 6-digit repeater For repeater mod. DINI ARGEO.

☐ DC repeater Configures up to 3 weight repeaters, each of which displays different information.

☐ Network Activates the "network between instruments" mode.

☐ Coin reader Allows you to communicate with the connected DINI ARGEO coin reader.

☐ Repeater GLR100 Numeric For repeater mod. DINI ARGEO.

☐ Repeater GLR100 Alphanumeric For repeater mod. DINI ARGEO.

Only visible if "Protocol = DC repeater".

Configuration of "DC Repeater" protocol in order to connect several repeaters in RS485 network and to simultaneously view different weights:

Scale 1 (address 01)

⚙️ ☒ Disabled ☐ Only if active ☐ Always

Scale 2 (address 02)

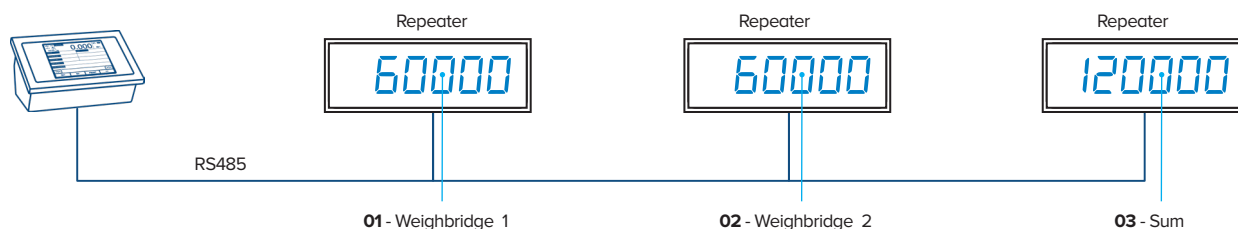
⚙️ ☒ Disabled ☐ Only if active ☐ Always

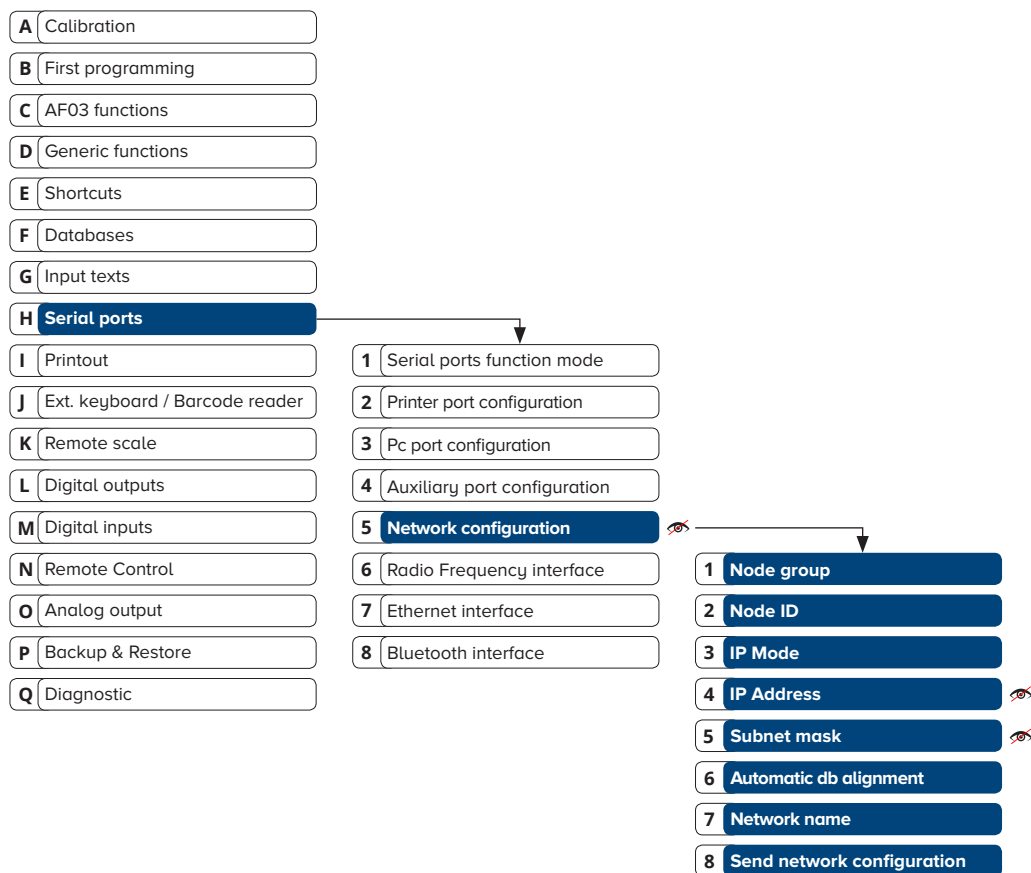
Sum (address 03)

⚙️ ☒ Disabled ☐ Only if active ☐ Always

i For weighbridges with digital cells, the network of repeaters can be connected directly to the RS485 network of the cells.

DC repeater diagram





KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



H 5 Network configuration

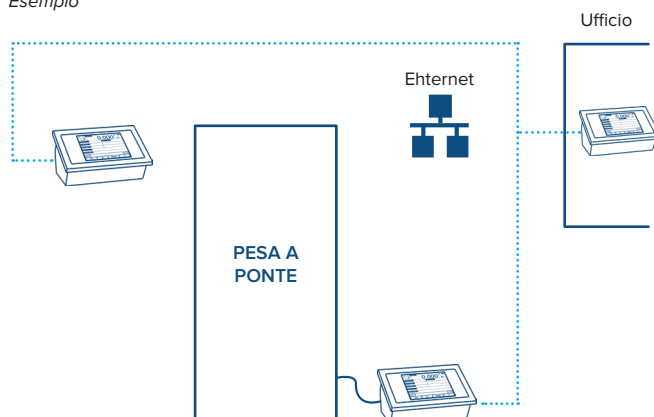


Only visible if "Protocol = Network" in "Pc Port configuration" or "Auxiliary port configuration".

Configuration menu of network between tools.

The network between tools allows you to share the databases and weighs carried out in real time, implementing weighbridges with several indicators.

Esempio



1 Node group

A group of nodes is a set of indicators, linked via Ethernet, which share the weighs database and the other databases. There can be several node groups linked to the same corporate Ethernet circuit.

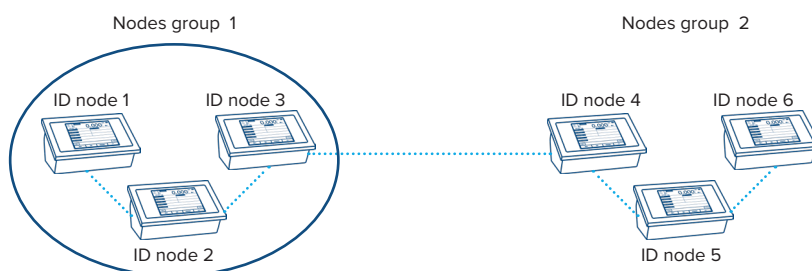
⚙ 1...8 (1)

2 Node ID

Identifies the tool in its group of origin.

⚙ 1...32 (1)

Example



3 IP Mode

⚙ ☒ Static IP address ☐ Dynamic IP address

4 IP Address



Only visible if "IP Mode" = "Static IP address" is configured.

Configuring the "Static IP" mode allows you to configure the IP address.

⚙ 0. 0. 0. 0

5 Subnet mask



Only visible if "IP Mode" = "Static IP address" is configured.

Configuring the "Static IP" mode allows you to configure the subnet mask.

⚙ 255. 255. 255. 0

6 Automatic db alignment

Each record in the database and each new weigh are shared in real time by all tools online belonging to the same group.

⚙ ☐ Disabled ☒ Enabled

7 Network name

Allows you to program the name of the Ethernet module for quick identification in the corporate network (e.g.: "Weighbridge 1", "Office add.).

⚙ Max. 15 characters.

8 Send network configuration

Send the configuration to the Ethernet module.

- A Calibration
- B First programming
- C AF03 functions
- D Generic functions
- E Shortcuts
- F Databases
- G Input texts
- H Serial ports**
- I Printout
- J Ext. keyboard / Barcode reader
- K Remote scale
- L Digital outputs
- M Digital inputs
- N Remote Control
- O Analog output
- P Backup & Restore
- Q Diagnostic

- 1 Serial ports function mode
- 2 Printer port configuration
- 3 Pc port configuration
- 4 Auxiliary port configuration
- 5 Network configuration
- 6 Radio Frequency interface**
- 7 Ethernet interface**
- 8 Bluetooth interface**

- 1 Interface type**
- 2 Communication port**
- 3 IP mode** 
- 4 IP address** 
- 5 Subnet mask** 
- 6 Send configuration** 

- 1 Communication port**
- 2 Device name** 
- 3 Role** 
- 4 Paired device** 
- 5 Send configuration** 

KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



H 6 Radio Frequency interface

Configuration of radiofrequency module.

1 Communication port

Set the communication port which the radiofrequency module is connected to.

☒ Disabled
 ☐ Pc port
 ☐ Printer port
 ☐ Auxiliary port

2 Channel

Allows you to configure the radio channel used by the radiofrequency module to communicate. Once the selection of the channel has been confirmed, the tool automatically sends the new configuration to the radio module.

0 ~ 7 (0)

H 7 Ethernet interface

Allows you to configure the Ethernet module to communicate with the corporate computer system.

1 Interface type

☒ Esterna (ETHD)
 ☐ Interna TCP
 ☐ Interna UDP

2 Communication port

☒ Disabled
 ☐ PC port
 ☐ Printer port
 ☐ Device name

3 IP mode

☒ Static IP address
 ☐ Dynamic IP address

4 IP address

Configuring the "Static IP" mode allows you to configure the IP address.

0. 0. 0. 0

5 Subnet mask

Configuring the "Static IP" mode allows you to configure the subnet mask.

255. 255. 255. 0

6 Send configuration

Allows you to send the configuration to the Ethernet module.

H 8 Bluetooth interface

Configuration of bluetooth module.

1 Communication port

Set the communication port which the bluetooth module is connected to.

☒ Disabled
 ☐ PC port
 ☐ Printer port
 ☐ Porta ausiliaria

2 Device name

Enables you to configure the name that identifies the device (i.e. the indicator).

The default name is recommended: BTDA_XXX, editable.

Max. 20 characters.

3 Role

Enables you to configure the operating mode.

☒ Slave
 ☐ Master

By selecting "Slave", the indicator waits for a master device to request connection, for example to a PC.

By selecting "Master", the indicator requests connection to a master device, for example a scanner, printer, or other Slave indicator, etc.

4 Associated device

Only visible if "Role = Master".

The indicator activates a search for available devices and displays them on the screen.

Select the device to associate.

5 Send configuration

Allows you to send the configuration to the bluetooth module.



The parameters from H 7 3 to H 7 6 are only visible if "Communication port" (H 7 2) ≠ "Disabled"

The parameters from H 8 2 to H 8 5 are only visible if "Communication port" (H 8 1) ≠ "Disabled"

A	Calibration	
B	First programming	
C	AF03 functions	
D	Generic functions	
E	Shortcuts	
F	Databases	
G	Input texts	
H	Serial ports	
I	Printout	
J	Ext. keyboard / Barcode reader	
K	Remote scale	
L	Digital outputs	
M	Digital inputs	
N	Remote Control	
O	Analog output	
P	Backup & Restore	
Q	Diagnostics	

1	Keyboard port use	
2	External pc keyboard type	
3	Barcode reader serial port	
4	Input text automatic compilation	
5	Barcode reader length threshold	
6	Barcode reader use	

KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



I 1 Printout headings

Filling out the "Lines", these appear in the print header.

1 Line 0

⚙ Max. 24 characters.

2 Line 1

⚙ Max. 24 characters.

3 Line 2

⚙ Max. 24 characters.

Ext. keyboard / Barcode reader

J 1 Keyboard port use

Allows you to define whether the keyboard emulation inlet, on the display board, is connected to an external PC keyboard (PS2) or to a card reader.

⚙ ☒ Connected to a pc keyboard ☐ Connected to a barcode reader

2 External pc keyboard type

⚙ ☒ Italiano ☐ Français ☐ Deutsch
☐ English ☐ Español

Italiano / English / Español = QWERTY

Français = AZERTY

Deutsch = QWERTZ

3 Barcode reader serial port

Allows you identify the port which the serial barcode / Badge / Tag / RFID reader is connected to.

⚙ ☒ Not connected ☐ Printer port ☐ Auxiliary port

4 Input text automatic compilation

 Only visible if "Keyboard inlet" = "Connected to barcode scanner".
 Enables or disables autofill of free text 0.

⚙ ☒ Disabled ☐ Enabled

5 Barcode reader length threshold

 Only visible if "Keyboard inlet" = "Barcode scanner" and "Text autofill" = "Enabled".
 Manufacturer use only.

6 Barcode reader use

Allows you to set the operating mode of the barcode / Badge / Tag / RFID reader.

⚙ ☐ Search card Quick selection of records and execution of weigh. Use the description of the card, even partial, as a search criteria.

☒ Search card by whole word Quick selection of records and execution of weigh. Use the complete description of the card as a search criteria.

☐ Search ID code Execution of second weigh by quickly recalling the ID of the first weigh. Use the weigh ID as a search criteria.

- A Calibration
- B First programming
- C AF03 functions
- D Generic functions
- E Shortcuts
- F Databases
- G Input texts
- H Serial ports
- I Printout
- J Ext. keyboard / Barcode reader
- K Remote scale**
- L Digital outputs
- M Digital inputs
- N Remote Control
- O Analog output
- P Backup & Restore
- Q Diagnostic

- 1 Management enabling
 - 2 Scale model
 - 3 Network remote scale 1 ID
 - 4 Network remote scale 2 ID
 - 5 Network remote scale 3 ID
 - 6 Network remote scale 4 ID
 - 7 Protocol
 - 8 Metrological data
 - 9 Functions enabling
 - 10 Commands
 - 11 Reception timeout
-
- 1 String terminator
 - 2 Weight start position
 - 3 Weight length
 - 4 Type of the weight
 - 5 Tare start position
 - 6 Tare length
 - 7 Tare type start position
 - 8 Total length of the string
 - 9 Stability readings
 - 10 Stability weight difference
 - 11 Stability type
 - 12 Stability start position
 - 13 Instability string
 - 14 Rounding function on the weight

KEY:



Parameter visible only in certain conditions.



Parameter or menu subject to approval.



Possible configurations of the parameter.



o (x) Indicates the default configuration.



K 1 Management enabling

 ☒ Disabled ☐ Enabled

2 Scale model

Allows you to select a pre-configured Dini Argeo model or, by selecting "CUSTOM", to adapt the tool to the serial string transmitted by any scale.

 ☒ CUSTOM ☐ DFW / DGT ☐ 3590 / TR
☐ ALD ☐ HLD ☐ GAEP / GAI / GAT
☐ ALP ☐ SICS ☐ AX

3 Network remote scale 1 ID

...

6 Network remote scale 4 ID 7 Protocol

 Visible only if:

"Number of scales = Remote scale"; inside "Remote scale" "Management enabling = Enabled"; inside "Auxiliary port" "Protocol = Network" and if ethernet board has been configured.

It specifies the ID of the node to repeat, within the "belonging nodes" group. It is possible to repeat up to four independent weighing.

 0 ~ 9 (0).

 Only visible if "Scale model" = "Custom"

Allows you to identify each value contained in the string sent by the remote scale:

 Only for "CUSTOM" remote scale.

Example:

S	T	,	G	S			6	0	0	0	0	k	g	,	P	T			1	0	0	0	0	k	g	<CR>	<LF>
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

K 7 1 String terminator

Terminator character of the string expressed in decimal ASCII code.

 0 ~ 255 (10). *In the example <LF> = 010.*

2 Weight start position

Starting position of the weight.

 0 ~ 99 (0). *In the example, the weight starts from position 5.*

3 Weight length

Characters making up the weight value.

 1 ~ 99 (10). *In the example the weight value consists of 7 characters.*

4 Type of the weight

Type of weight transmitted by the connected remote scale.

 ☒ Gross ☐ Net

5 Tare start position

Starting position of the tare (if present)

 1 ~ 99 (10). *In the example, the tare starts from position 17.*

6 Tare length

Characters making up the tare (if present)

 1 ~ 99 (10). *In the example the tare consists of 7 characters.*

7 Tare type start position

Position of characters identifying the type of tare (e.g. "PT", if present)

 1 ~ 255 (28). *In the example, the tare type starts from position 15.*

8 Total length of the string

Set the number of characters of the string if it does not have a fixed terminator character.

If there is a terminator character, set the value - 1.

 0 ~ 99 (31). *In the example the string has 27 characters.*

9 Stability readings

Allows you to set how many consecutive strings to consider for the weight stability control.

 0 ~ 20 (0). Set "0" if the string contains a stability indication.

10 Stability weight difference

The weight is considered unstable when the consecutive strings (set in the previous step) differ from the number of divisions set in this parameter.

 1 ~ 20 (2). Set "0" if the string contains a stability indication.

11 Stability type

 Only visible if "Stability readings" = 0.

Allows you to determine whether the string indicates the stability or instability of the weight. For special applications, the stability can be ignored.

 ☐ Ignore stability ☐ Stability string ☒ Instability string

12 Stability start position

This parameter indicates the position of the stability identification character, if any

 0 ~ 255 (10) *In the example, the stability indications starts from position 0.*

13 Instability string

 Only visible if "Stability indication position" = 0

Set the ASCII characters which identify instability (e.g. "UNS").

 Max. 3 characters.

14 Rounding function on the weight

Displays the weight correctly rounded off.

 ☒ Disabled ☐ Enabled

A	Calibration	
B	First programming	
C	AF03 functions	
D	Generic functions	
E	Shortcuts	
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J	Ext. keyboard / Barcode reader	
K	Remote scale	
L	Digital outputs	
M	Digital inputs	
N	Remote Control	
O	Analog output	
P	Backup & Restore	
Q	Diagnostic	

1

Management enabling

2

Scale model

3

Network remote scale 1 ID

4

Network remote scale 2 ID

5

Network remote scale 3 ID

6

Network remote scale 4 ID

7

Protocol

8

Metrological data

9

Functions enabling

10

Commands

11

Reception timeout

KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.

K 8 Metrological data

The "Metrological data" menu allows you to set the metrological data of the remote scale:

1 Number of decimals

☒ 0
 ☐ 0.0
 ☐ 0.00
 ☐ 0.000
 ☐ 0.0000
 ☐ 0.0000

2 Unit of measure

☒ g
 ☐ kg
 ☐ t
 ☐ lb

3 Division e

1 ~ 200 (1).

4 Division d

1 ~ 200 (1).

5 Capacity

1 ~ 999999 (1).

9 Functions enabling

Only visible if "Remote scale" is set to "Scale model = CUSTOM".

The "Enable functions" menu allows you to activate the functions to be carried out on the remote scale.

1 Zero function

☐ Disabled
 ☒ Enabled

2 Tare function

☐ Disabled
 ☒ Enabled

3 Preset tare function

☒ Disabled
 ☐ Enabled command+value
 ☐ Enabled value+command

10 Commands

Only visible if "Remote scale" is set to "Scale model = CUSTOM".

The Commands menu allows you to configure the commands for two-way communication with the remote scale. This allows you to send specific commands to perform resets and tares.

1 Tare command

Only visible if "Tare function" = "Enabled".

This allows you to set the characters making up the tare command (for example "T" or "TARE")

2 Weight request interval

This allows you to set the request frequency of the weight, according to the transmission speed of the remote scale

3 Weight request command

Set the characters making up the reading command of the weight (for example "R" , "\$" , "READ" etc...)

4 Command terminator

Terminator ASCII character of each command sent to the remote scale.

☒ CR
 ☐ CR LF
 ☐ LF
 ☐ Nothing

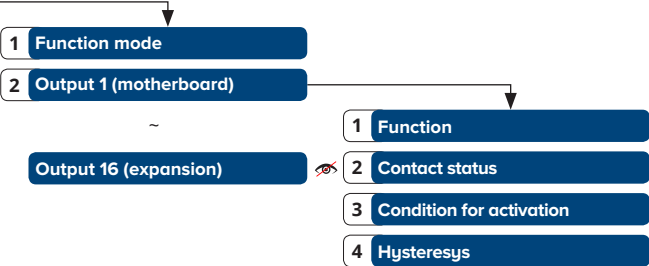
E.g.: T <CR>, or Z <CR><LF>, etc.

11 Reception timeout

Allows you to optimise the system functioning when "Weighing interval request = 0", that is, when the remote scale transmits continuously the weighing string.

In this parameter, the time interval between one transmission and the other is set.

A	Calibration
B	First programming
C	AF03 functions
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M	Digital inputs
N	Remote Control
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P	Backup & Restore
Q	Diagnostic



KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.



The tool is set up for 4 digital outputs on the motherboard, which can be expanded to 16 with the optional expansion board.

L 1 Function mode

Allows you to activate only one relay at a time ("Exclusive" mode); useful for managing multi-colour traffic lights.

☒ Normal
 ☐ Exclusive

The configuration menu of a digital output is displayed below (in following example "Output 1")

L 2 Output 1 (motherboard)

1 Function

☒ Disabled -

☐ Gross weight Switching of the relay on the gross weight (adjusting the set point).

☐ Net weight Switching of the relay on the set point (net weight).

☐ Gross weight = 0 The relay switches when the gross weight is equal to 0.

☐ Net weight = 0 The relay switches when the net weight is equal to 0.

☐ Instability Switching of the relay at instability of the weight.

☐ Totalisation done Activated upon execution of the single weigh and of the double weigh. Remains on based on the weighing reactivation mode.

☐ Setpoint on the partial total Function can be used when the first weigh is greater than the second.

☐ Setpoint on the general total Function can be used when the first weigh is greater than the second.

☐ Setpoint on the grand total Function can be used when the first weigh is greater than the second.

☐ Negative net weight Set point which can be adjusted at negative net weight.

☐ Double or single weigh Activation of the relay after first, second or single weigh acquired.

☐ Weight acquisition Activation of relay at each weigh carried out.

☐ Traffic light Function which regulates passage of the vehicle on the weighbridge (can be activated by means of 2 outputs)

☐ Traffic light scale 2 Traffic light enabled on scale 2. See "Traffic light".

☐ Generic axle out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 1 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 2 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 3 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 4 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 5 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 6 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 7 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 8 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 9 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Axle 10 out of tolerance Activation of relay when the axle is out of tolerance. The relay returns to the initial status at passage to 0.

☐ Traffic L. yellow (wait unload) Activation of relay when weigh carried out. Tells the user to unload the weighbridge. Function can be activated coupled to "Traffic light" function.

2 Contact status

Normally open/normally closed

☒ Normally opened (NO)
 ☐ Normally closed (NC)

3 Condition for activation

The output can be activated immediately when the set threshold is reached ("Direct" mode) or waits for stability.

☒ Direct
 ☐ At the weight stability

- A

Calibration
- B

First programming
- C

AF03 functions
- D

Generic functions
- E

Shortcuts
- F

Databases
- G

Input texts
- H

Serial ports
- I

Printout
- J

Ext. keyboard / Barcode reader
- K

Remote scale
- L

Digital outputs
- M

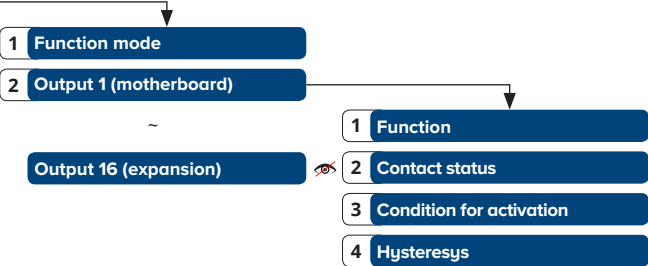
Digital inputs
- N

Remote Control
- O

Analog output
- P

Backup & Restore
- Q

Diagnostic



KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.

4 Hysteresys

Enables double threshold operation (activation weight threshold $\neq$ from output deactivation weight threshold).

☒ Disabled

☐ Enabled

Soglia singola (disabilitato)

Doppia soglia (abilitato)

Single threshold: the relay switches when the set threshold is exceeded. It goes back to the initial condition when the weight value has dropped below the threshold.

Double threshold: the relay switches when the set threshold is exceeded. It goes back to the initial condition when the weight value has dropped below the hysteresis threshold.

The following is the default configuration of the following outputs:

Output 2 - Output 3 (motherboard)

Function

Contact status

Condition for activation

Hysteresys

☒ Traffic light

☒ Normally opened (NO)

☒ Direct

☒ Disabled

Output 4 ... Output 16 (expansion)

Function

Contact status

Condition for activation

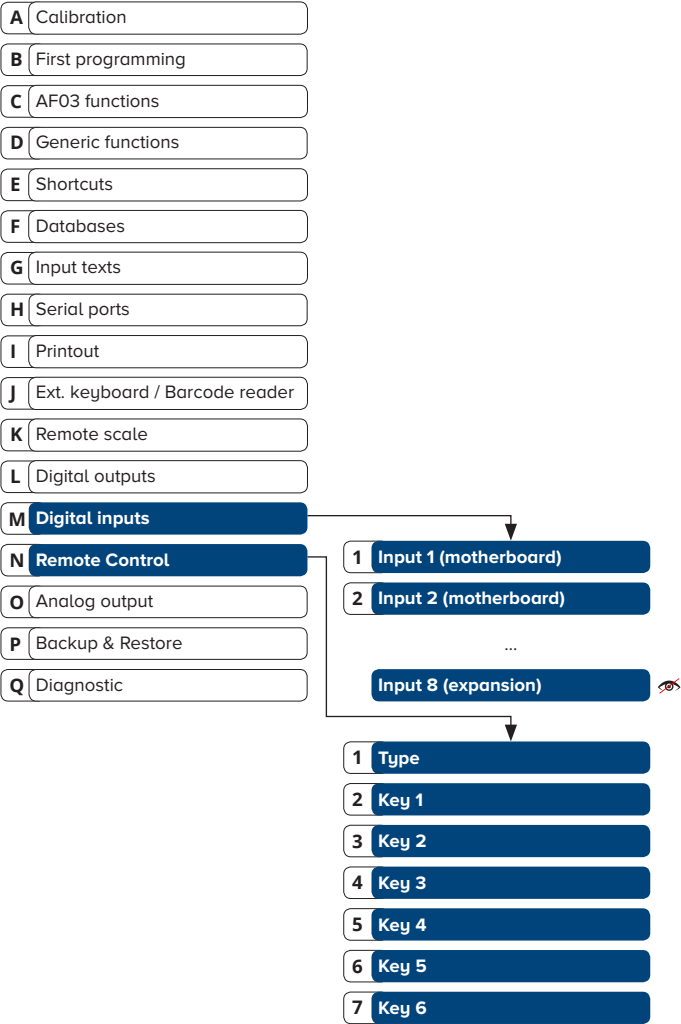
Hysteresys

☒ Disabled

☒ Normally opened (NO)

☒ Direct

☒ Disabled



KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.

The tool is set up for 2 digital inputs on the motherboard, which can be expanded to 8 with the optional expansion board.

M 1

Input 1 (motherboard)

~

Input 8 (expansion)

Allows you to associate the desired function to input 1.

☒ Disabled

-

☐ Key

Simulates the brief pressure of a key (for indicators with keypad).

☐ User setup

Access to user setup.

☐ User setup function by index

Activates the request of the desired function in the display.

☐ Single function

Allows you to associate the input to a specific function from the user menu.

☐ Sequence 1

Allows to associate one of the 10 available sequences to the input.

☐ Sequence 2

...

☐ Sequence 10

For systems with many scales, it selects the remote one.

☐ Select the remote scale

For systems with many scales, it selects scale 1.

☐ Select the scale 1

For systems with many scales, it selects scale 2.

☐ Select the scale 2

For systems with many scales, it selects scale 3.

☐ Select the scale 3

For systems with many scales, it selects scale 4.

☐ Select the scale 4

When activated locks the keyboard; when deactivated, unlocks it.

☐ Lock/Unlock keyboard

When activated, it turns off the indicator; the restart is possible only from keyboard.

☐ Indicator turning off

If active, it hides the weight visualisation.

☐ Show "-----" on the display

If active, it disables all the relays outputs.

☐ Disable all the digital outputs

If active, the pressure of any key is considered as "long", activating the second function.

☐ Simulation of the long pression

If active, it hides the weight visualisation. Useful for the management of the electronic level.

☐ Connection to a level controller

OUT1 and OUT2 for dosage - If active, it is possible to set the setpoints value for outputs OUT1 and OUT2.

☐ OUT1 and OUT2 for dosage

First weight consensus - If the input is open, the first weight can't be done.

☐ First weigh consensus

Second weight consensus - If the input is open, the second weight can't be done.

☐ Second weigh consensus

Remote control

N 1

Type

Allows you to configure the type and operation of the remote control.

☒ Disabled

The use this function, the remote control must be associated to the indicator (max 3 remote controls).

☐ Radio 6 keys

Supports up to 6 remote controls for each indicator without needing to associate them.

☐ Radio 6 keys in broadcast mode

☐ Radio in tag emulation



By selecting the types of remote control "Radio with 6 keys" and "Radio with 6 keys in broadcast mode", the desired function must be associated to each key (6) choosing between: Disabled, Key simulation, User set-up, User set-up function from index, Single function, Sequence 1... 10, Select remote scale, Select scale 1, Select scale 2, Select scale 3, Select scale 4, Lock/Unlock keyboard, Indicator switch-off, View "-----" on display, Disable all outputs, Long press simulation, Connected to level controller.

When selecting the remote control types "6 keys radio" and "broadcast mode 6 keys radio", it is necessary to associate to each of the 6 keys the desired function.

2 Key 1

3 Key 2

4 Key 3

5 Key 4

6 Key 5

7 Key 6

☒ Tare

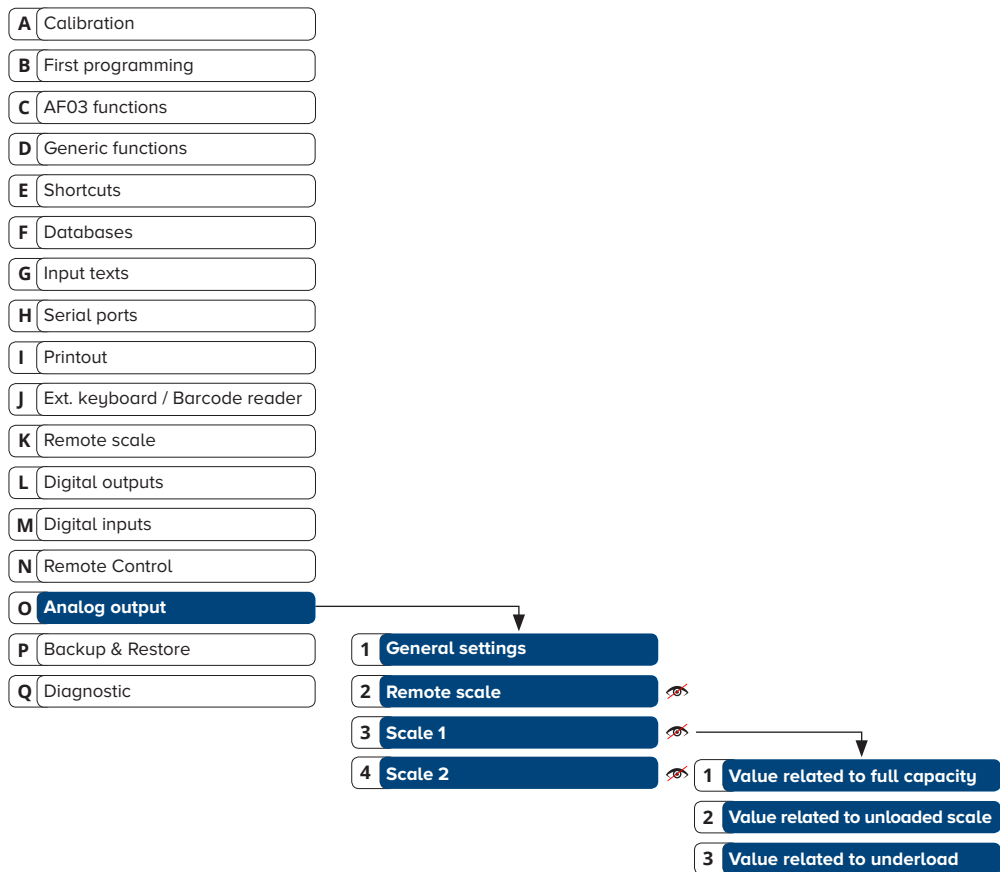
☒ Zeroing

☒ First weigh

☒ Second weigh

☒ ON-OFF / CLEAR

☒ Simple printout



KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.

The tool, equipped with optional expansion board, is set up for installation of an analogue output proportional to the weight of the displayed scale (0 ... 5V, 0 ... 10V, 0 ... 20mA, 4 ... 20mA).

01General settings

1Expansion board slot

Slot 1

Slot 2

2Function

Proportional to the gross weight

Proportional to the net weight

2Remote scale

Visible only if inside "Remote scale" "Management enabling" = Enabled.

3Scale 1

Only visible if "Scale selection" = 1/2.

1Value related to full capacity

0 ~ 65535 (63250)

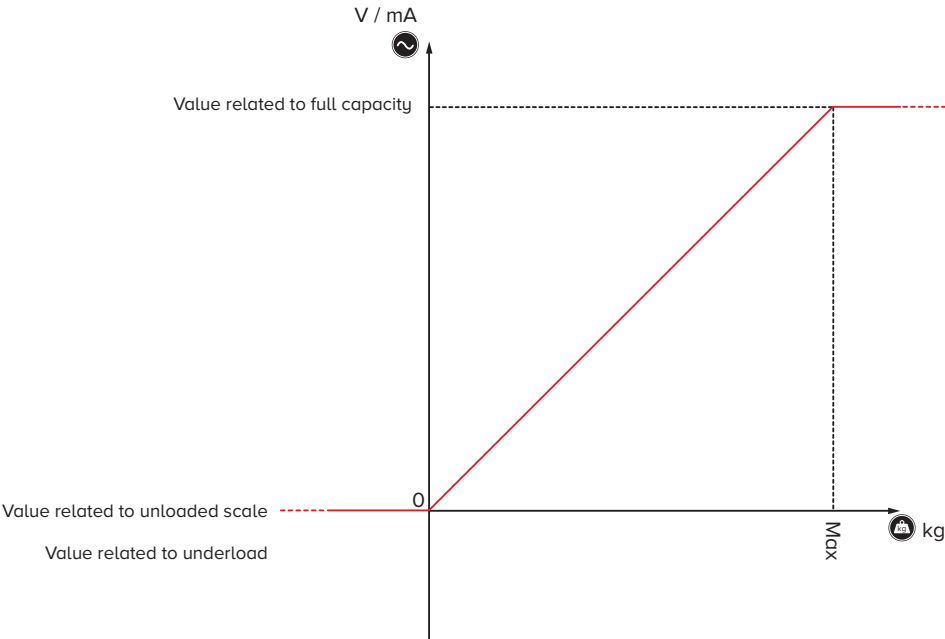
2Value related to unloaded scale

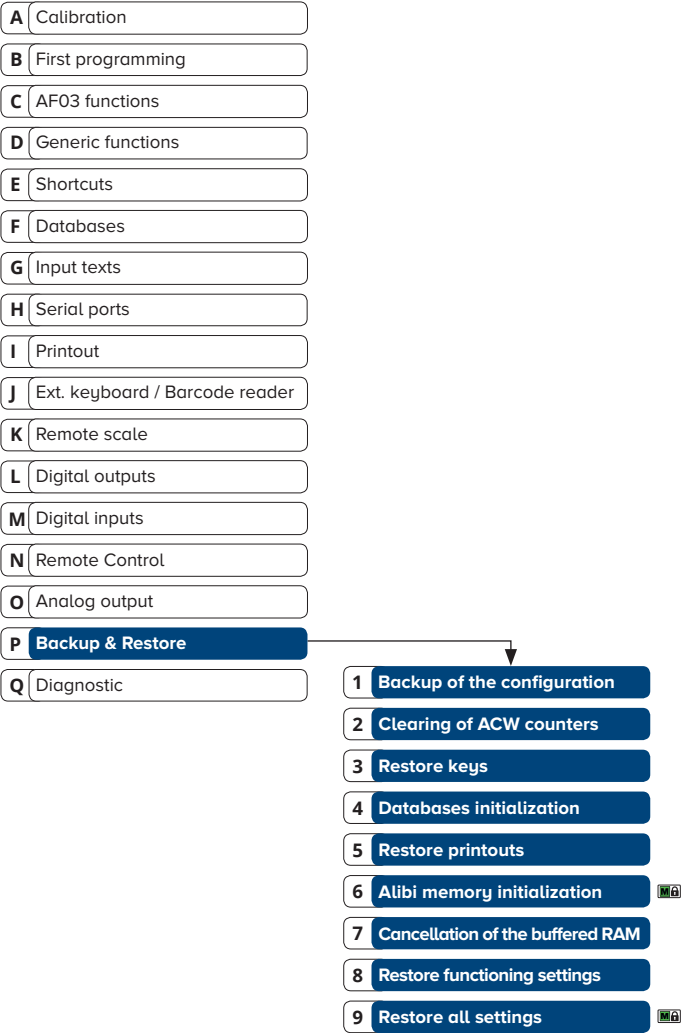
0 ~ 65535 (1300)

3Value related to underload

0 ~ 65535 (1300)

4Scale 2





KEY:

-  Parameter visible only in certain conditions.
-  Possible configurations of the parameter.

-  Parameter or menu subject to approval.
-  o (x) Indicates the default configuration.

P 1 Backup of the configuration

Allows you to store the current configuration and to protect it with a password, in order to quickly restore operation of the indicator in case of malfunctioning due to incorrect tampering with the set-up.

2 Clearing of ACW counters

Allows you to reset the counters managing the automatic recalibration warning (**D 5**).

3 Restore keys

Allows you to restore the default features of the keyboard (if present), of the function sequences and of the touch buttons in the work screens.

4 Databases initialization

It allows to cancel the content of the selected databases, restoring the factory configuration.

⚙

☒ Customer dtb	☒ Material dtb
☒ Input texts	☒ Vehicle dtb
☒ Progressives dtb	☒ Card dtb
☒ Suppliers dtb	☒ Weighs dtb

5 Restore printouts

Allows you to restore the default condition of all printing formats and the work screens of the display.

6 Alibi memory initialization



Enables you to delete the content of the alibi memory.

7 Cancellation of the buffered RAM

Allows you to reset the entire buffered RAM memory (except the serial numbers and digital cells), restoring the default condition of the databases (and relative parameters), of the totals, of the progressives, of the keys and of the prints.

8 Restore functioning settings

Allows you to restore the features of the indicator to the default condition.

9 Restore all settings



Allows you to cancel all the settings (calibration, key configuration, databases, prints, alibi memory, buffered RAM, features) by restoring the default condition.

- A Calibration
- B First programming
- C AF03 functions
- D Generic functions
- E Shortcuts
- F Databases
- G Input texts
- H Serial ports
- I Printout
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- Q Diagnostic

- 1 Indicator information
- 2 Weight test
- 3 Display test
- 4 Keyboard test
- 5 Voltage levels
- 6 Serial ports test
- 7 CTS test
- 8 Printout test
- 9 Outputs and Inputs test
- 10 Analog output test
- 11 Events log viewer

KEY:



Parameter visible only in certain conditions.



Possible configurations of the parameter.



Parameter or menu subject to approval.



o (x) Indicates the default configuration.



Q 1 Indicator information

Summarised screen of the main metrological information.

EGT-AFxx-EN

Instrument type	01
Metrological software version	01
Software version	01.00.00
Hardware version	08
Loader version	2.08
Serial number	12345678
Display version	01.00.00
LEGAL FOR TRADE	
g= 9.80390m/s2	

Esc

Prefix: identifies the tool model

Version: identifies the legal software

- 2 Weight test
- 3 Display test
- 4 Keyboard test
- 5 Voltage levels
- 6 Serial ports test
- 7 CTS test
- 8 Printout test
- 9 Outputs and Inputs test
- 10 Analog output test
- 11 Events log viewer

Displays the current weight of the scale, even in error conditions (underload, overload, etc.).

Display of basic colours in sequence (White / Black and RGB)

Allows you to verify correct operation of the touch screen and of the built-in keyboard (if present).

Displays the voltage value at the input of the power supply and battery (if present).

Manufacturer use only.

Test of the status of the control signal from the printer.

Allows you to send the printer the selected printing format (from "1" to "30" or else "0" to send all formats).

Allows you to verify the status of the digital inputs and testing of the relay outputs/built-in traffic light.
By clicking the desired output you activate/deactivate the connected device.
Click "R", "Y" or "G" to test the built-in traffic light (if present).

Allows you to test the analogue output: enter a digital value for real time updating of the analogue output.

Views the list of the last ten events of the selected category:

Events list

☒ Metric events

☐ Battery events

☐ Overload events

☐ Set-up events

☐ Fw add. events

☐ Network events

ESCOK

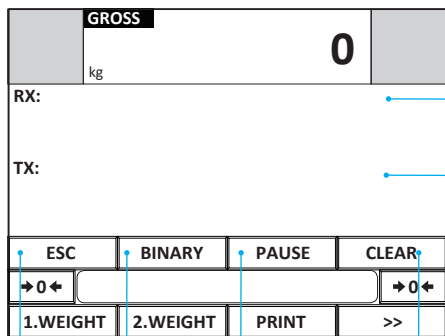


List of functions

Scale functions		Preamble	Description
101	Zeroing	-	Manual reset of weight within +/- 2% of F.S.
102	Zeroing cycle	-	Automatic reset cycle of all connected scales when tool switches on.
103	Tare	-	Acquisition of tare weight by pressing the dedicated key.
104	Preset tare	from 0 to Max	Manual tare value entry function.
105	Lock/Unlock tare	-	Exchanges the "locked tare" feature with "unlocked tare".
106	Weight switching	-	If there is a tare, it exchanges the display between "net weight" and "gross weight".
107	Weight in high resolution	-	Useful for metrological tests, allows you to view the weight with a sensitivity ten times higher.
108	Scale switching	0	Selection of the remote scale.
		1 o 2	In multi-scale systems, it allows you to select the displayed scale.
		3	In multi-scale systems, it displays the sum "A+B".

Printout		Preamble	Description																																		
201	Printer turning on	-	If the tool is equipped with an integrated printer, this function allows you to switch it on manually for configuration or to change the roll.																																		
202	Simple printout	-	Allows you to print the weight on the scale without increasing the totals.																																		
203	Last printout copy	-	Allows you to issue an exact copy of the last print carried out, freezing the weights and all the weigh data (databases, texts, etc.).																																		
204	Change the printout format	-1	Accesses the association table of the printing formats. <table><tr><th>PRINT FUNCTION</th><th>FORMAT</th></tr><tr><td>Simple printout</td><td>001</td></tr><tr><td>Partial total</td><td>002</td></tr><tr><td>General total</td><td>003</td></tr><tr><td>Grand total</td><td>004</td></tr><tr><td>Single weigh</td><td>005</td></tr><tr><td>First weigh</td><td>006</td></tr><tr><td>Second weigh</td><td>007</td></tr><tr><td>Customer total</td><td>008</td></tr><tr><td>Material total</td><td>009</td></tr><tr><td>Vehicle total</td><td>010</td></tr><tr><td>Start up print</td><td>011</td></tr><tr><td>Calculator result</td><td>012</td></tr><tr><td>Supplied total</td><td>013</td></tr><tr><td>Printout with fee for self service</td><td>014</td></tr><tr><td>Conis / tokens total</td><td>015</td></tr><tr><td>Format of reprint</td><td>016</td></tr></table>	PRINT FUNCTION	FORMAT	Simple printout	001	Partial total	002	General total	003	Grand total	004	Single weigh	005	First weigh	006	Second weigh	007	Customer total	008	Material total	009	Vehicle total	010	Start up print	011	Calculator result	012	Supplied total	013	Printout with fee for self service	014	Conis / tokens total	015	Format of reprint	016
		PRINT FUNCTION	FORMAT																																		
		Simple printout	001																																		
		Partial total	002																																		
General total	003																																				
Grand total	004																																				
Single weigh	005																																				
First weigh	006																																				
Second weigh	007																																				
Customer total	008																																				
Material total	009																																				
Vehicle total	010																																				
Start up print	011																																				
Calculator result	012																																				
Supplied total	013																																				
Printout with fee for self service	014																																				
Conis / tokens total	015																																				
Format of reprint	016																																				
		Single preamble from 1 to 16	Allows you to assign the desired printing format to the function indicated in the preamble.																																		
		Double preamble in format xxyy xx: from 1 to 16 yy: from 1 to 30	Allows you to assign the desired printing format (yy) to the printing function (xx).																																		
205	Printout format sending	-1	Accesses the printing formats table.																																		
		from 1 to 30	Allows you to send the printer the specified printing format.																																		
206	Ticket copies number	from 1 to 10	Allows you to set the number of copies issued for each print carried out.																																		
207	Printer error management	-	Manufacturer use only.																																		

Generic functions		Preamble	Description
301	Screen switching	from 1 to 3	Allows you to exchange the operating screen among the three available.
302	Lock Keyboard	-	Allows you to lock the indicator keyboard to prevent unintentionally pressing the keys. The keyboard is unlocked by means of the guided key combination.
303	Date and time setting	-	Allows you to adjust date and time.
304	Calculator	-	Recalls the calculator function.
305	Outputs setpoint setting	-1	Accesses the set points summary table.
		from 1 to 16	Recalls the menu where the relays activation/deactivation value is set.
306	Alibi memory reading	-	Allows you to check each weigh saved in the alibi memory.
307	Enable/Disable zoom	-	Activates/deactivates the display of the weight with large digits.
308	Change language	from 0 to 4 or 255 (custom)	Allows you to change the program language in real time. Useful for self service systems.
309	Brightness adjustment	from 1 to 5	Allows you to adjust brightness of the display's back lighting.
310	Cross light (3 colors) function	-	Activates/deactivates the colour change function of the display depending on the set tolerances. This function also acts on the built-in LED traffic light (if present).
311	Wait synchronism (for Sequence)	Manufacturer use only.	Manufacturer use only.

Diagnostic		Preamble	Description
401	Indicator information	-	Displays all the metrological/legal information of the indicator and of the installed program.
402	Weight test	-	Displays the current weight of the scale, even in error conditions (underload, overload, etc.).
403	Display test	-	Display of basic colours in sequence (White / Black and RGB)
404	Keyboard test	-	Allows you to verify correct operation of the touch screen and of the built-in keyboard (if present).
405	Voltage levels	-	Displays the voltage value at the input of the power supply and battery (if present).
406	Serial ports test	-	Manufacturer use only.
407	CTS test	-	Test of the status of the control signal from the printer.
408	Printout test	-	Allows you to send the printer the selected printing format (from "1" to "30" or else "0" to send all formats).
409	Outputs and Inputs test	-	Allows you to verify the status of the digital inputs and testing of the relay outputs/ built-in traffic light. By clicking the desired output you activate/deactivate the connected device. Click "R", "Y" or "G" to test the built-in traffic light (if present).
410	Analog output test	-	Allows you to test the analogue output: enter a digital value for real time updating of the analogue output.
413	Event log viewer	-	Views the list of the last ten events of the selected category.
450	Metric information	-	Displays all the metrological information of the connected weighbridges (Max, Min, and).
451	Serial Com test (runtime)	-	<p>When you have chosen the communication port to be verified, the tool displays the characters received and transmitted in real time, in ASCII or binary format.</p>  <p>The screenshot shows a software interface for a serial communication test. At the top, a 'GROSS' label is next to a large '0' and 'kg' unit. Below this are two large text areas labeled 'RX:' and 'TX:'. To the right of these areas are labels 'Data received' and 'Data transmitted' with arrows pointing to the respective fields. At the bottom is a control panel with several buttons: 'ESC', 'BINARY', 'PAUSE', and 'CLEAR' in the top row; '→ 0 ←' and '← 0 →' in the middle row; and '1.WEIGHT', '2.WEIGHT', 'PRINT', and '>>' in the bottom row. Arrows point from descriptive text to these buttons: 'Exits the function' to 'ESC', 'Switches the ASCII / Binary display' to 'BINARY', 'Stops transponder of characters.' to 'PAUSE', and 'Deletes the data transmitted/ received' to 'CLEAR'.</p>
452	Peripheral units test (runtime)	-	Displays the current status of all the inputs, relay outputs, analogue output and serial parts.
453	Main screen guide	-	Summarised guide of all the features and main icons on the work screen.

Input texts		Preamble	Description
501	Input texts configuration	-1	Accesses the compilation menu of all the active input texts.
		from 000 to 014	Alphanumerical compilation of the specified input text.
		from 100 to 114	Numerical compilation of the specified input text.
502	Input texts resetting	99	Allows you to delete the content of all the input texts.
		from 0 to 14	Allows you to delete the content of the specified input text.
503	Input text 0	-	Direct access to compilation of input text "0".
504	Input text 1	-	Direct access to compilation of input text "1".
...	...		...
512	Input text 9		Direct access to compilation of input text "9".
518	Text visualization time	0	Permanent display of the input text, specified in function "519", in the messages area (status bar) of the work screen.
		from 1 to 100 sec	Time the input text is displayed in the status bar.
		101	Display of the input text until the weight is > 0 kg.
		102	Display of the input text until the weight is stable.
		103	Display of the input text until output 1 is OFF.
		104	Display of the input text until output 2 is OFF.
		105	Display of the input text until output 3 is OFF.
519	Show text on status bar	from 0 to 14	Views the input text specified in the preamble in the message area (status bar) for the time set in function "518".

Databases		Preamble	Description
601	Customer database	-	Access compilation of customer database.
602	Customer selection	-1	Access the complete customer database.
		from 1 to 499	Access the customer database to select the desired record.
		9999	Unselect the active record.
		10000	Selection with alphanumerical filter.
		10001	Selection by numerical index.
		10002	Activates the selection by image. Image format 68x68 px. Image stored on SD.
		10003	Activates the selection by image. Image format 138x33 px. Image stored on SD.
		10004	Activates the selection by image. Image format 68x68 px. Image stored on SD.
		10005	Activates the selection by image. Image format 68x68 px. Image stored on USB.
		10006	Activates the selection by image. Image format 138x33 px. Image stored on USB.
		10007	Activates the selection by image. Image format 68x33 px. Image stored on USB.
603	Material database	-	Access compilation of materials database.
604	Material selection	-1	Access the complete materials database.
		from 1 to 499	Access the materials database to select the desired record.
		9999	Unselect the active record.
605	Vehicle database	-	Access compilation of vehicles database.
606	Vehicle selection	-1	Access the complete vehicles database.
		from 1 to 499	Access the vehicles database to select the desired record.
		9999	Unselect the active record.
607	Progressives database	-	Not used in the vehicles weighing application.
608	Cards database	-	Access compilation of cards database.
611	Supplier database	-	Access compilation of suppliers database.
612	Supplier selection	-1	Access the complete suppliers database.
		from 1 to 249	Access the suppliers database to select the desired record.
613	Card selection	-1	Access the complete cards database.
		from 1 to 999	Access the cards database to select the desired record.
		9999	Unselect the active record.

AF03 functions		Preamble	Description
701	First weigh	-	Acquisition of the first weigh.
702	Second weigh	-	Acquisition of the second weigh.
703	Minimum threshold	-	Setting of minimum acquisition threshold.
704	Maximum threshold	-	Setting of maximum acquisition threshold.
705	Reset weighs list	-	Allows you to delete all the first weighs open.
706	Print coins/tokens total	-	Allows you to print the total of the coins/tokens introduced in the system since the last reset.
707	Reset coins/total	-	Allows you to reset the inserted coins/tokens counter.
708	Weighs list	-	Displays the list of the last 1000 open/closed weighs.
709	Preset weight for first weigh	-	Quick entry of the known weight to use as the first weigh.
710	Manual operation from touch	-	Activates the manual self service screen (ref. C 6 2 10).
711	Minimum axle weight	-	If the axle weight is less than this value, it is not acquired by the system.
712	Acquisition sensitivity	-	Manufacturer use only.

Totals		Preamble	Description																								
801	View all totals	-	<div><div>View all totals</div><table><tr><th>TOTAL TYPE</th><th>NET</th><th>WEIGHS</th></tr><tr><td>PARTIAL</td><td>0 kg</td><td>0</td></tr><tr><td>GENERAL</td><td>0 kg</td><td>0</td></tr><tr><td>GRAND</td><td>0 kg</td><td>0</td></tr><tr><td>CUSTOMER</td><td>0 kg</td><td>0</td></tr><tr><td>MATERIAL</td><td>0 kg</td><td>0</td></tr><tr><td>VEHICLE</td><td>0 kg</td><td>0</td></tr><tr><td>SUPPLIER</td><td>0 kg</td><td>0</td></tr></table><div>Esc</div></div>	TOTAL TYPE	NET	WEIGHS	PARTIAL	0 kg	0	GENERAL	0 kg	0	GRAND	0 kg	0	CUSTOMER	0 kg	0	MATERIAL	0 kg	0	VEHICLE	0 kg	0	SUPPLIER	0 kg	0
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MATERIAL	0 kg	0																									
VEHICLE	0 kg	0																									
SUPPLIER	0 kg	0																									
802	Reset all totals	-	Allows you to reset all the accumulated totals in one step.																								
803	Weighs to auto print partial t.	-	Not used in the vehicles weighing application.																								
804	Print partial total	-	Allows you to print the partial total accumulated.																								
805	Reset partial total	-	Allows you to reset the partial total accumulated.																								
806	Print general total	-	Allows you to print the general total accumulated.																								
807	Reset general total	-	Allows you to reset the general total accumulated.																								
808	Print grand total	-	Allows you to print the grand total accumulated.																								
809	Reset grand total	-	Allows you to reset the grand total accumulated.																								
850	Print customer total	-	Allows you to print the total of the selected customer.																								
851	Reset customer total	-	Allows you to reset the total of the selected customer.																								
852	Print customers total	-	Allows you to print the total of all customers in one step.																								
853	Reset customers total	-	Allows you to reset the total of all customers in one step.																								
854	Print material total	-	Allows you to print the total of the selected material.																								
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857	Reset materials total	-	Allows you to reset the total of all materials in one step.																								
858	Print vehicle total	-	Allows you to print the total of the selected vehicle.																								
859	Reset vehicle total	-	Allows you to reset the total of the selected vehicle.																								
860	Print vehicles total	-	Allows you to print the total of all vehicles in one step.																								
861	Reset vehicles total	-	Allows you to reset the total of all vehicles in one step.																								
862	Printe supplier total	-	Allows you to print the total of the selected supplier.																								
863	Reset suplier total	-	Allows you to reset the total of the selected supplier.																								
864	Print suppliers total	-	Allows you to print the total of all suppliers in one step.																								
865	Reset suppliers total	-	Allows you to reset the total of all suppliers in one step.																								

Progressives		Preamble	Description
901	Additional value	Manufacturer use only.	Manufacturer use only.
902	Progressives digits	Manufacturer use only.	Manufacturer use only.
903	Ticket progressive	Manufacturer use only.	Manufacturer use only.
904	Lot progressive	Manufacturer use only.	Manufacturer use only.

Network functions		Preamble	Description
1001	Network state	-	Manufacturer use only.
1002	Network monitor	-	Indicates the online tools and indicates who the "Master" indicator is.
1003	Network archive alignment	-	Aligns the databases of all the online indicators in real time.
1004	Unlock weighing list records	-	Manufacturer use only.
1005	Connect network	-	Allows you to connect the indicator to the network.
1006	Disconnect network	-	Allows you to disconnect the indicator from the network.
1007	Send remote key	-	Repeats pressing of a touch key on the remote tool.
1009	Remote scale change	from 1 to 4	Selects the remote scale (up to max 4 for each repeater).

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The individual in charge of the scale operation must ensure that all safety regulations in force in the country of use are applied, ensuring that the appliance is used in accordance with the purpose it is intended for and to avoid any danger for the user.

The Manufacturer declines any liability arising from any weighing operation errors.

[illegible]

Notes

[illegible]

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