DINI ARGEO
Scales - Weighing systems

AF03GT
Program for weighbridges

For 3590 series touch screen indicators

Introduction

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Introduction

Dear customer,

We thank you for choosing a Dini Argeo weight indicator.

The purpose of this manual is to describe the functioning of the weight program named AF03. It is specific for weighbridges, in its original factory settings.

This program includes all the most modern weighbridges management functions, both in manual and self-service mode, with particular attention to use simplicity and data integration with the company's information system.

It is also possible to configure and customise the program completely.

For any further information or specific request, we invite you to contact your dealer.

Weighing type

A vehicle can be weighed in two ways:
- **Multiple weighing,** typical of areas for goods receipt / freight forwarding, in caves, in quarries;
- **Single weighing,** used in weighing stations or self-service.

Multiple weighing

Multiple weighing allows to know the weight of the vehicle transported material through the difference between two weighs, carried out in different moments (e.g. inward and outward), first with loaded and then with unloaded vehicle, and vice versa. It can be executed by an operator through manual operations to be done by the weight terminal, or directly by the driver alone, with the help of badges or barcodes (self-service mode).

The two weighs which permit to calculate the difference are named **FIRST WEIGH** and **SECOND WEIGH**.

Prima pesata   Seconda pesata

WEIGHBRIDGE   WEIGHBRIDGE

The **FIRST WEIGH** is stored by the instrument and printed together with its univocal code, called *weighing code*, which will be recalled in the second weigh in order to calculate the difference.

The weighing code can be automatically given by the instrument, and it is called *identifier or ID*. Alternatively, it can be the *vehicle's plate*, typed by the operator or selected from the vehicles database stored in the weight indicator.

Single weighing

Single weighing allows to know, in one weigh, the overall vehicle's weight (gross weight). Or, it is possible to know the net weight of the material transported, by entering in the indicator the weight of the empty vehicle.

WEIGHBRIDGE

Possible configurations

Single weighbridge

It is the most common configuration, with operator or self-service. It allows to carry out:

- Multiple weighing
- Single weighing
- Weighing of vehicles with trailers (double weighing)

Parallel weighbridge

Configuration with two weighbridges, managed by an operator through the weight terminal. The following can be carried out:

- Multiple weighing only on A, only on B, or "mixed", on A and B.
- Single weighing on A or on B.
- Weighing of vehicles with trailer (double weighing), on A or B

Combined weighbridge

Configuration with two weighbridges, having an A+B sum functioning, managed by an operator through the weight terminal. This solution facilitates the weight of long vehicles, usually made of a tractor and a trailer

Multi-indicator weighbridge

Self-service solution which allows to use the weighbridge in both directions. The weight indicators are interconnected, and share the weighing database. Thus, the first weight can be executed in one direction, and the second weight in the opposite one.

Multi-indicator on-line weighbridges

Configuration with two weighbridges, usually self-service, with check from the office through additional weight indicator or PC. The weighbridges can work independently, or can be synchronized in inward/outward.

On-line weighbridges

Configuration with two weighbridges, usually placed at entrance and exit of the company. They are interconnected on-line, and share the weighing database: in this way, the first weight can be carried out on one weighbridge, and second one on the other. Self-service solution or with operators.

DINI ARGEO
Scales - Weighing systems

Button	Function
(1)	Setting date and time.
(2)	Net / gross weight display / zoom.
(3)	Scale change.
(4)	Preset weight for first weigh.
(5)*	Freely entered text.
(6)	Customer selection.
(7)	Supplier selection.
(8)	Material selection.
(9)	Vehicle selection.
(10)*	Temporary truck (entering numberplate).
(11)	Execution of the first weighing.
(12)	Execution of the second weighing.
(13)	Printing.
(14)	Operational messages.
(15)	Screen change.
(16)	Customer database.
(17)	Materials database.
(18)	Additional function menu.
(19)	Suppliers database.
(20)	Vehicles database.
(21)	Filling out / editing free text database.

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.
⚖A ⚖B ⚖A+B	Active scale. "A+B" sum.

ℹ * Point (5) is freely configurable.

ℹ * The "FREE PLATE" key (10) in the weighing mode with ID identification lets you type the license plate of the vehicle to indicate it in the printout but does not let you bring up the outbound vehicle.

DINI ARGEO
Scales - Weighing systems

Multiple weighing with vehicle identification by automatic ID code

USE	Lets you weigh the material transported by the vehicle by difference between first and second weighing. The first weighing is identified by automatic numeric ID.
ACTIVATION	Standard active function.

Registration procedure of the first weighing

1.

WEIGHBRIDGE

2.

3. Printing is automatic and carries the unique weighing string (ID)

> *i* It is possible to choose whether to assign a progressive identification code to the first weighing (with automatic reset after 999 weighings), or the first identification code available in memory (in this case the identification code is released once the second weighing is carried out).

Registration procedure of the second weighing

1.

WEIGHBRIDGE

2.

3. Select the first weighing identification string (ID)

4. Summary screen. Press OK to confirm.

GROSS		
	35000	
kg		
1. WEIGH		2. WEIGH	
kg	50000	kg	35000
NET		
kg		15000
NOTE 1		NOTE 2	
CUSTOMER		SUPPLIER	
MATERIAL		VEHICLE	

| Esc | ← | OK |

5. Printing is automatic and shows the first weighing, the second weighing and the difference.

```
⊠ DINI ARGEO
Scales - Weighing systems
------------------------------
ID                     1
------------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                  A
05/04/2016 16:00
PROGRESSIVE            2
------------------------------
1.WEIGH          50000kg
2.WEIGH          35000kg
------------------------------
NET              15000kg
```

6. Now it is possible to print one or more copies of the receipt, or unload the weighbridge / press ESC to return to weighing mode.

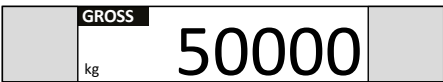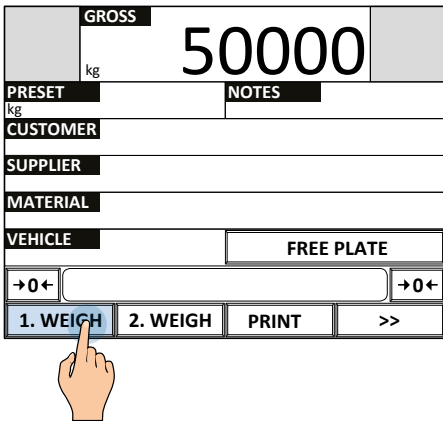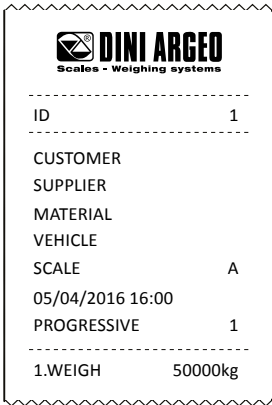| GROSS		
	35000	
kg		
1. WEIGH		2. WEIGH	
kg	50000	kg	35000
NET		
kg		15000
NOTE 1		NOTE 2	
CUSTOMER		SUPPLIER	
MATERIAL		VEHICLE	

| Esc | COPY |

i The "FREE PLATE" key in the weighing mode with ID identification lets you type the license plate of the vehicle to indicate it in the printout but does not let you bring up the vehicle to get the second weigh.

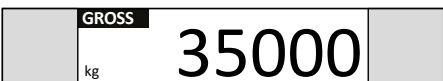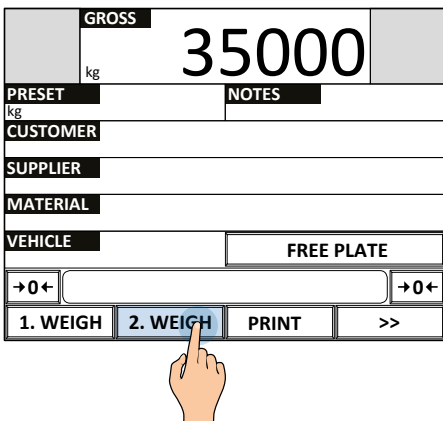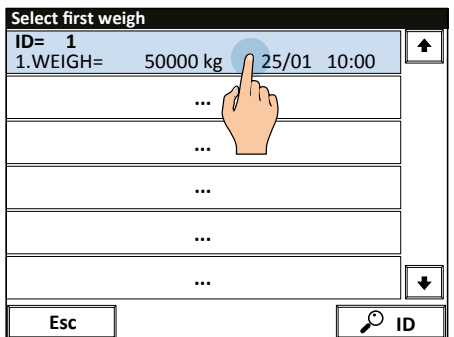# Multiple weighing with vehicle identification by plate

USE	Lets you weigh the material transported by the vehicle by difference between first and second weighing. The first weighing is identified by entering the vehicle's plate.
ACTIVATION	Activation requires advanced configuration.

i It is possible to store the plates of vehicles in the archive for quicker retrieval *(see page C-9)*

Registration procedure of the first weighing

1.

GROSS	
	50000
kg	

WEIGHBRIDGE

2.

GROSS	
	50000
kg	
PRESET	NOTES
kg	
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE

| →0← | | →0← |

| 1. WEIGH | 2. WEIGH | PRINT | >> |

3. Enter the license plate of the vehicle

Plate
XY 123 XY

Esc	'	<	/	]	Clear		BkSp
1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
2^F	Z	X	C	V	B	N	M	,	.
Shift	←		→	OK

4.

GROSS
50000
kg

PRESET		NOTES	
kg			
CUSTOMER			
SUPPLIER			
MATERIAL			
VEHICLE			
XY 123 XY		FREE PLATE	

→0← | | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

5. Printing is automatic and shows the plate

```
⬢ DINI ARGEO
Scales - Weighing systems
----------------------------
PLATE          XY 123 XY
----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE        XY 123 XY
SCALE                  A
05/04/2016 16:00
PROGRESSIVE            1
----------------------------
1. WEIGH       50000kg
```

6.

WEIGHBRIDGE

Registration procedure of the second weighing

1.

GROSS
35000
kg

WEIGHBRIDGE

2.

GROSS
35000
kg

PRESET		NOTES	
kg			
CUSTOMER			
SUPPLIER			
MATERIAL			
VEHICLE		FREE PLATE	

→0← | | →0←
1. WEIGH | **2. WEIGH** | PRINT | >>

3. Select the first weighing identification string (PLATE)

```
Select first weigh
PLATE=      XY 123 XY          ↑
1.WEIGH=    50000 kg   25/01  10:00
            ...
            ...
            ...
            ...
            ...                ↓
Esc                      🔍 A...Z
```

4. Summary screen. Press OK to confirm.

GROSS
35000
kg

1. WEIGH		2. WEIGH	
kg	50000	kg	35000
NET			
kg			15000
NOTE 1		NOTE 2	
CUSTOMER		SUPPLIER	
MATERIAL		VEHICLE	
		XY 123 XY	

Esc | ← | | **OK**

5. Printing is automatic and shows inbound, outbound weight and the difference.

```
⬢ DINI ARGEO
Scales - Weighing systems
----------------------------
PLATE          XY 123 XY
----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE        XY 123 XY
SCALE                  A
05/04/2016 16:00
PROGRESSIVE            2
1. WEIGH       50000kg
2. WEIGH       35000kg
----------------------------
NET            15000kg
```

6. Now it is possible to print one or more copies of the receipt, or unload the weighbridge / press ESC to return to weighing mode.

GROSS
35000
kg

1. WEIGH		2. WEIGH	
kg	50000	kg	35000
NET			
kg			15000
NOTE 1		NOTE 2	
CUSTOMER		SUPPLIER	
MATERIAL		VEHICLE	
		XY 123 XY	

Esc | | | COPY

7.

WEIGHBRIDGE

8. The weighbridge is ready for the next weighing operation

GROSS
0
kg

PRESET		NOTES	
kg			
CUSTOMER			
SUPPLIER			
MATERIAL			
VEHICLE		FREE PLATE	

→0← | | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

i The free license plate is deleted automatically when the weigh is done or when the weighbridge is unloaded.

i It is also possible to select the license plate from database *(C-7)*.

Multiple weighing with selection of database record

USE	Thanks to the database it is possible to identify the customer, supplier, transported material and vehicle, for complete traceability of the weighing.
ACTIVATION	Standard active function.

Registration procedure of the first weighing

1.

2. Select the desired database

3. Select the desired data

4.

5.

6.

Registration procedure of the second weighing

1.

2.

3. Selecting the license plate of the first weighing

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4. Summary screen. The database records selected in the first weighing can be edited before proceeding by pressing OK.

5. Printing is automatic and shows the first weighing, the second weighing and the difference.

6. Now it is possible to print one or more copies of the receipt, or unload the weighbridge / press ESC to return to weighing mode.

GROSS	35000	
kg		
1. WEIGH kg	50000	**2. WEIGH** kg
NET kg		15000
NOTE 1		**NOTE 2**
CUSTOMER SMIDTH LTD		**SUPPLIER** WHITE LTD
MATERIAL KAOLIN		**VEHICLE** XY 123 XY
Esc	←	OK

Second weigh value in panel 4: 35000

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PLATE	XY 123 XY
CUSTOMER	SMIDTH LTD
SUPPLIER	WHITE LTD
MATERIAL	KAOLIN
VEHICLE	XY 123 XY
SCALE	A
05/04/2016 16:00	
PROGRESSIVE	2
1. WEIGH	50000kg
2. WEIGH	35000kg
NET	15000kg

GROSS	35000	
kg		
1. WEIGH kg	50000	**2. WEIGH** kg
NET kg		15000
NOTE 1		**NOTE 2**
CUSTOMER SMIDTH LTD		**SUPPLIER** WHITE LTD
MATERIAL KAOLIN		**VEHICLE** XY 123 XY
Esc		COPY

7.

WEIGHBRIDGE

8.

GROSS	0	
kg		
PRESET kg		**NOTES**
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE		FREE PLATE
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

i

By unloading the weighbridge the selected database records are deselected automatically.

Multiple weighing of vehicles with trailer on one weighbridge only

USE	Lets you weigh a vehicle with trailer using a shorter weighbridge, making the weighing in two operations (first the traction vehicle, then the trailer).
ACTIVATION	Activation requires advanced configuration.

Registration procedure of the first weighing

1.

2.

3.

4.

5.

6.

7.

Registration procedure of the second weighing

1.

GROSS
10000
kg

WEIGHBRIDGE

2.

GROSS
10000
kg

PRESET kg	NOTES
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE

→0← | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3.

Select first weigh
ID=
1.WEIGH=   15000 kg   25/01 10:00
...
...
...
...
Esc   ID

4.

GROSS
10000
kg

1. TK (kg) 15000   2. TK (kg) 10000
TR: 20000kg   TR:
NET
kg
NOTE 1   NOTE 2
CUSTOMER   SUPPLIER
MATERIAL   VEHICLE

Esc   ←   OK

5.

i

Repeat the same operations carried out in the first weighing from point 3 to point 6.

6.

GROSS
10000
kg

1. TK (kg) 15000   2. TK (kg) 10000
TR: 20000kg   TR: 5000kg
NET   20000
kg
NOTE 1   NOTE 2
CUSTOMER   SUPPLIER
MATERIAL   VEHICLE

Esc   ←   OK

7.

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Scales - Weighing systems
- - - - - - - - - - - - - - - - - - -
ID: 1
- - - - - - - - - - - - - - - - - - -
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE

05/04/2016 16:00
PROGRESSIVE   2
- - - - - - - - - - - - - - - - - - -
1. WEIGH

TRUCK   15000kg
TRAILER   20000kg
- - - - - - - - - - - - - - - - - - -
2. WEIGH

TRUCK   10000kg
TRAILER   5000kg
- - - - - - - - - - - - - - - - - - -
NET   20000kg

8.

GROSS
0
kg

WEIGHBRIDGE

Multiple weighing of vehicles with trailer on two weighbridges

USE	Lets you weigh a vehicle with trailer using two weighbridges, performing the weighing in a single operation.
ACTIVATION	Activation requires advanced configuration.

PREMISE
- **The scale weighs the traction unit first, then it weighs the trailer.**
- **Before acquiring the weigh, verify that the selected weighbridge is the correct one** *(B-4)*.

Registration procedure of the first weighing

1.

GROSS
15000 kg ⚖ A

⚖ A

WEIGHBRIDGE B   WEIGHBRIDGE A
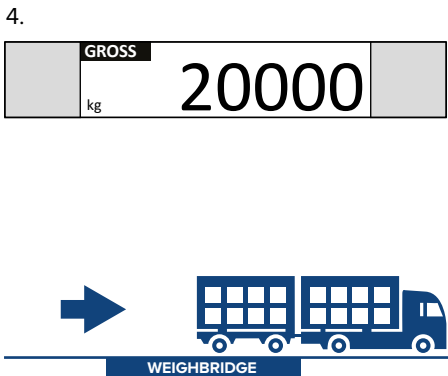
2. Press 1.WEIGH to weigh the traction unit

GROSS
15000 kg ⚖ A

A kg   B kg
PRESET   NOTES
CUSTOMER   SUPPLIER kg
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH   2. WEIGH   PRINT   >>

3.

GROSS
Trailer (TR)

Execute the trailer weigh?
Scale selection

No   A   **B**

1. WEIGH   2. WEIGH   PRINT   >>

4.

```
        DINI ARGEO
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- - - - - - - - - - - - - - - - -
ID:                           1
- - - - - - - - - - - - - - - - -
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE

25/01/2016 10:00
PROGRESSIVE                   1
- - - - - - - - - - - - - - - - -
1. WEIGH
TRUCK             15000kg
TRAILER           10000kg
```

5.

GROSS
0 kg ⚖ B

⚖ B

WEIGHBRIDGE B   WEIGHBRIDGE A

Registration procedure of the second weighing

1.

⚖ B

GROSS
10000 kg ⚖ B

WEIGHBRIDGE B   WEIGHBRIDGE A

2.

GROSS
10000 kg ⚖ B

A kg   B kg
PRESET   NOTES
CUSTOMER   SUPPLIER kg
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH   **2. WEIGH**   PRINT   >>

3.

Select first weigh
ID=
1.WEIGH=   35000 kg   25/01 10:00
...
...
...
...
Esc   🔍 ID

4.

GROSS
10000 kg
⚖ B
1. TK (kg) TR: 20000kg 15000
2. TK (kg) TR: 10000
NET kg
NOTE 1 | NOTE 2
CUSTOMER | SUPPLIER
MATERIAL | VEHICLE

| Esc | ← | | OK |

5.

GROSS

Trailer (TR)

Execute the trailer weigh?
Scale selection

| No | A | B |

→0 | 0←
1. WEIGH | 2. WEIGH | PRINT | >>

6.

⚖ A

GROSS
5000 kg
⚖ A
1. TK (kg) TR: 20000kg 15000
2. TK (kg) TR: 5000kg 10000
NET kg 20000
NOTE 1 | NOTE 2
CUSTOMER | SUPPLIER
MATERIAL | VEHICLE

| Esc | ← | | OK |

7.

```
         DINI ARGEO
      Scales - Weighing systems
- - - - - - - - - - - - - - - - - - -
ID:                          1
- - - - - - - - - - - - - - - - - - -
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                        A

05/04/2016 16:00
PROGRESSIVE                  2
- - - - - - - - - - - - - - - - - - -
1. WEIGH

TRUCK              15000kg
TRAILER            20000kg
- - - - - - - - - - - - - - - - - - -
2. WEIGH

TRUCK              10000kg
TRAILER             5000kg
- - - - - - - - - - - - - - - - - - -

NET                20000kg
```

8.

GROSS
5000 kg
⚖ A
1. WEIGH kg 20000kg 15000
2. WEIGH kg 5000kg 10000
NET kg 20000
NOTE 1 | NOTE 2
CUSTOMER | SUPPLIER
MATERIAL | VEHICLE

| Esc | | COPY |

9.

⚖ A

GROSS
0 kg
⚖ A

WEIGHBRIDGE B | WEIGHBRIDGE A

ℹ You must select the weighbridge on which to weigh the truck before pressing button "1. WEIGH" or "2. WEIGH", in this way the weighbridge may be used in both directions as required.

ℹ This weighing procedure also lets you weigh two different materials transported by the same vehicle.

Material 1   Material 2

Any printouts with specific net weight of each material require advanced configuration.

WEIGHBRIDGE A | WEIGHBRIDGE B

"A + B" operating mode with two weighbridges

USE	Lets you add up the weight on the two weighbridges A and B and quickly carry out weighing.
ACTIVATION	Activation requires advanced configuration.

PREMISE
In this operating mode the screen is as follows:

Weight sum "A+B"

Weighbridge "A"

Allows you to manually preset a total "A + B" weight.

```
GROSS
        kg              0
A                    B
kg                   kg
PRESET               NOTES
CUSTOMER             SUPPLIER
                     kg
MATERIAL
VEHICLE                  FREE PLATE
→0←                                    →0←
1. WEIGH   2. WEIGH   PRINT      >>
```

Weighbridge "B"

The weighing mode "A + B" allows

Application 1

WEIGHBRIDGE "A" WEIGHBRIDGE "B"

Application 2

WEIGHBRIDGE "A" WEIGHBRIDGE "B"

Application 3

WEIGHBRIDGE "A" WEIGHBRIDGE "B"

i   In the "A+B" operating mode weighing is performed using the sum of "A" + "B".

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Manual entry of the first weighing (preset weigh)

USE	Lets you enter the value of the first weighing manually.
ACTIVATION	Standard active function.

1.

GROSS
50000
kg

→ WEIGHBRIDGE

2.

GROSS
50000
kg

PRESET
kg
NOTES
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3. Enter the weight

AF03 Function
Preset weight for first weigh
35000
0 ~ 60000

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

Esc   ←

4.

GROSS
50000
kg

PRESET
kg   35000   NOTES
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
FREE PLATE
→0←   →0←
2. WEIGH | PRINT | >>

5.

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- - - - - - - - - - - - - - - - -
ID
- - - - - - - - - - - - - - - - -
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE
05/04/2016 16:00
PROGRESSIVE   1
1. WEIGH *   35000kg
2. WEIGH   50000kg
- - - - - - - - - - - - - - - - -
NET*   15000kg
* PRESET WEIGH

Bringing up the function from the menu

1.

```
GROSS
kg      50000
```

WEIGHBRIDGE

2.

```
GROSS
kg      50000
PRESET              NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE             FREE PLATE
→0←                 →0←
1. WEIGH   2. WEIGH   PRINT   >>
```

3. Enter the license plate of the vehicle

```
GROSS
kg      50000
CUSTOMERS           SUPPLIERS
MATERIALS           VEHICLES
MENU                INPUT TEXT
→0←                 →0←
1. WEIGH   2. WEIGH   PRINT   >>
```

4.

```
User setup
        ...                    ↑
        ...
        ...
    AF03 Functions
        ...
        ...                    ↓
    Esc
```

5.

```
AF03 Function
        ...                    ↑
        ...
        ...
  Preset weight for first weigh
        ...                    ↓
    Esc        ←
```

6. Enter the weight

```
AF03 Function
Preset weight for first weigh  ↑
              35000
        0      ~      60000
  1      2      3      /      Esc
  4      5      6      *
  7      8      9      -      BkSp
  C      0      .      +      OK
  Esc          ←                    ↓
```

7.

```
GROSS
kg      50000
PRESET  35000  NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE             FREE PLATE
→0←                 →0←
        2. WEIGH   PRINT   >>
```

8.

```
DINI ARGEO
Scales - Weighing systems
- - - - - - - - - - - - - - - -
ID
- - - - - - - - - - - - - - - -
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE
05/04/2016 16:00
PROGRESSIVE              1
1. WEIGH *      35000kg
2. WEIGH        50000kg
- - - - - - - - - - - - - - - -
NET*            15000kg
* PRESET WEIGH
```

Second weighing by reading the barcode

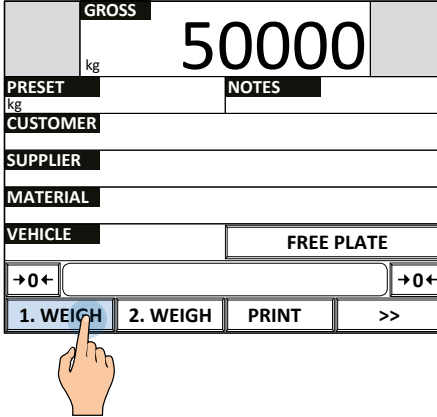| USE	Speeds up retrieval of the first weighing by reading a barcode.
ACTIVATION	Activation requires advanced configuration.

Example of operation with printing of the ID in the form of barcode

Registration procedure of the first weighing

1.

2.

3. Enter the license plate of the vehicle

* The ID is also printed in the form of barcode

```
ID                    1 *
-------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE
05/04/2016 16:00
PROGRESSIVE         1
-------------------------
1. WEIGH        50000kg
```

Registration procedure of the second weighing

1.

2.

3. The second weighing is performed auto-matically, with summary receipt printing.

```
ID                    1
-------------------------
CUSTOMER
SUPPLIER
VEHICLE
MATERIAL
SCALE
05/04/2016 16:00
PROGRESSIVE         2
1. WEIGH        50000kg
2. WEIGH        35000kg
-------------------------
NET             15000kg
```

4. Now it is possible to print one or more copies of the receipt, or unload the weighbridge / press ESC to return to weighing mode.

DINI ARGEO
Scales - Weighing systems

This operation can be applied in the following systems:

Single weigh

Two networked weighbridges

Two independent weighbridges

WEIGHBRIDGE ....

WEIGHBRIDGE ....

Ehternet

WEIGHBRIDGE

WEIGHBRIDGE ....

WEIGHBRIDGE

The main advantages are:
- speed up the selection of the first recorded weighing in memory;
- eliminate possible selection errors.

> **i** The operation entails printing the ID in the form of barcode.

The main advantages are:
- eliminate possible typing errors by the driver;
- automate the second weighing without the need to connect the two weighbridges in a network.

> **i** The operation entails printing the weight in the form of barcode, hence the first weight will be marked in print with an asterisk (*) and the designation of "PRESET WEIGH".

DINI ARGEO
Scales - Weighing systems

Instrument networking for database and weighings sharing

USE	It lets you perform the first weighing on an instrument and the second on another in the network, speeding up operations. All databases are shared and updated in real time on all the instruments of the network.
ACTIVATION	Activation requires advanced configuration.

Application diagram

Ehternet

Example 1

Office

WEIGHBRIDGE

Example 2

WEIGHBRIDGE

WEIGHBRIDGE

Office

DINI ARGEO
Scales - Weighing systems

Management of barriers and traffic lights

USE	The weighing indicator is arranged for installation of inputs and outputs for managing automations that govern access to the weighbridge (barriers, traffic lights, etc.).
ACTIVATION	Activation requires advanced configuration.

Application example

1. Weighbridge ready

2. Vehicle identification (via RFID or sensors)

3. Weighing in progress

4. Successfully executed weighing

DINI ARGEO
Scales - Weighing systems

Weighing with axle control

USE	It lets you check the weight of each axle during the second weighing to prevent overloading and subsequent fines. The weight of the axles can be shown in the printout.
ACTIVATION	Activation requires advanced configuration.

The acquisition of the axles is automatic and occurs dynamically while the vehicle climbs onto the weighbridge.

1.

WEIGHBRIDGE

2.

WEIGHBRIDGE

3.

WEIGHBRIDGE

4.

WEIGHBRIDGE

5.

WEIGHBRIDGE

6.

7.

8.

9.

Reissue of closed weighing

USE	Lets you re-edit a closed multiple weighing in order to execute the second weighing again.
ACTIVATION	Standard active function. Can be used if there is at least one weigh open and using identification mode by progressive ID.

1.

GROSS
50000
kg

→ WEIGHBRIDGE

2.

GROSS
50000
kg

PRESET kg
NOTES
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3.

Select first weigh
ID=
1.WEIGH=   35000   kg   25/01 10:00
...
...
...
...
Esc   ID

4. Type the ID of the weighing to be reedited.

Select first weigh
ID
2
0 ~ 999
1	2	3	/	Esc
4		6	*	
7	8	9	-	BkSp
C	0	.	+	OK

5.

GROSS
50000
kg

1. WEIGH kg   35000   2. WEIGH kg   50000
NET kg   15000
NOTE 1   NOTE 2
CUSTOMER   SUPPLIER
MATERIAL   VEHICLE

Esc | ← | | OK

i The function retrieves all the weight data and the records selected in the first weighing speeding up operations.

List of weighings performed

USE	Lets you reference, reprint or delete a weighing in progress or closed.
ACTIVATION	The function is active as standard.

How to access the list

1.

GROSS
0
kg

PRESET kg
NOTES
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

2.

GROSS
0
kg

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEXT
→0←   →0←
1. WEIG... | 2. WEIGH | PRINT | >>

3.

User setup
...
...
...
AF03 functions
...
...
Esc

4.

AF03 Function	
...	↑
...	
...	
Weighs list	
...	↓
Esc	←

5. Choose whether to show only open / closed weighings or search the weighing by numberplate / ID.

Select first weigh	
PLATE= XY 123 XY NET= 15000 kg 25/01/2016 10:00	↑
...	
...	
...	
...	
...	↓
Esc	OPEN	A...Z

6.

Select first weigh	
PLATE= XY 123 XY NET= 15000 kg 25/01/2016 10:00	↑
...	
...	
...	
...	↓
Esc	OPEN	A...Z

7. It is possible to print a summary copy of the selected weighing or delete it.

Select first weigh	
PLATE= XY 123 XY NET= 15000 kg 25/01/2016 10:00	↑
...	
...	
...	
...	
...	↓
←	COPY	OPEN	DELETE

How to clear the list of weighings

1.

GROSS		0
kg		
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

GROSS		0
kg		
CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEXT
→0←		→0←
1. WEIG...	2. WEIGH	PRINT	>>

3.

User setup	
...	↑
...	
...	
AF03 functions	
...	↓
Esc	

4.

AF03 Function	
...	↑
...	
...	
Reset weighs list	
...	↓
Esc	←

5.

AF03 Function	
Reset weighs list	↑
Confirm resetting?	
No	Yes
	↓
Esc	←

Resetting the weight

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

1.

2.

3.

ⓘ The allowed zero setting range is equivalent to +/-2% of the maximum capacity of the weighbridge.

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.

High resolution weight

USE	Allows you to display the weight with 10 times greater resolution.
APPLICATIONS	Checks for internal use.
ACTIVATION	Standard active function.

1.

```
          GROSS
                              0
          kg
PRESET              NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE                FREE PLATE
→0←                        →0←
1. WEIGH   2. WEIGH   PRINT    >>
```

2.

```
          GROSS
                              0
          kg
  CUSTOMERS          SUPPLIERS
  MATERIALS          VEHICLES
    MENU             INPUT TEXT
→0←                        →0←
1. WEIGH   2. WEIGH   PRINT    >>
```

3.

```
User setup
            ...              ↑
            ...
            ...
       Scale functions
            ...
            ...              ↓
   Esc
```

4.

```
Scale function
            ...              ↑
            ...
            ...
   Weight in high resolution
            ...
            ...              ↓
   Esc        ←
```

5.

```
          X10
                              0.0
          kg
PRESET              NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE                FREE PLATE
→0←                        →0←
1. WEIGH   2. WEIGH   PRINT    >>
```

ℹ️ If the instrument is approved, the display remains for a few seconds, then deactivates automatically.

Calculator

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

To call up the generic "calculator" function:

1.

2.

3.

4.

5.

DINI ARGEO
Scales - Weighing systems

Operation with several scales

USE	The instrument can handle up to 4 analogue or digital scales as standard.
APPLICATIONS	General weighing.
ACTIVATION	Standard active function if two scales or more present.

Select the weighbridge required to weigh

The indicator is standard designed to connect up to 4 scales with different capacities and accuracies.

The features available in a multiple weighbridge configuration are:
- Truck + trailer *(see page A-6)*
- A+B *(see page A-10)*
- A+B+C+D

DINI ARGEO
Scales - Weighing systems

500 Customers / 250 suppliers database

USE	Allows you to save the records of 500 customers / 250 different suppliers.
APPLICATIONS	Traceability, consumption and production checking, inventory monitoring.
ACTIVATION	Standard active function.

How to fill in the database

1.

GROSS		0
kg		
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

GROSS		0
kg		
CUSTOMERS	SUPPLIERS	
MATERIAL	VEHICLES	
MENU	INPUT TEXT	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

3.

Customer dtb	
0001	Empty
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | A...Z | >> |

Once you enter the customer / supplier database filling menu you can:

Enter a new record

1.

Customer dtb	
0001	Empty
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | A...Z | >> |

2. Fill in the fields.

Customer 0001/0499	
Description 1	
Description 2	
Description 3	

| ← | DELETE |

3. Saving is automatic

Customer 0001/0499	
Description 1	WHITE LTD
Description 2	
Description 3	

| ← | DELETE |

Delete a record

1.

Customer dtb	
0001	WHITE LTD
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | A...Z | >> |

2.

Customer 0001/0499	
Description 1	WHITE LTD
Description 2	
Description 3	

| ← | DELETE |

3.

Customer 0001/0499

Delete the record?

| No | Yes |

| ← | DELETE |

Edit an existing record

1.

Customer dtb		
0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

Esc	NEW	🔍 A...Z	>>

2.

Customer 0001/0499	
Description 1	WHITE LTD
Description 2	
Description 3	

←			DELETE

3. Saving is automatic

Description 2

JOHN WHITE

Esc	'	<	/	]	Clear		BkSp
1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
2^F	Z	X	C	V	B	N	M	,	.
Shift	←			→	OK

Search a record to edit / delete by alphabetic selection.

1.

Customer dtb		
0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

Esc	NEW	🔍 A...Z	>>

2.

Customer		
WHITE LTD		⬆ ⬇
		CLEAR
W		BkSp

Q	W	E	R	T	Y	U	I	O	P
A		D	F	G	H	J	K	L	;
2^F		X	C	V	B	N	M	Esc
Shift					NEW

Search a record by its numeric index

1.

Customer dtb		
0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

Esc	NEW	🔍 A...Z	>>

2.

Customer dtb		
0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

HELP	PRINT	🔍 INDEX	>>

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

Customer dtb

Select record

1

1 ~ 999

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

HELP	PRINT	🔍 INDEX	

Select a record

1.

GROSS		
kg		0
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	

→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

Customer dtb		
0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

Esc	NEW	🔍 A...Z	>>

3.

GROSS		
kg		0
PRESET	NOTES	
kg		
CUSTOMER		
WHITE LTD		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	

→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

Clear the current record

1.

2.

3. Press YES to clear the record

Fields of customer / supplier database

USE	Allow you to associate to each customer / supplier helpful descriptions to identify them in print and combine with specific functions.
APPLICATIONS	Customer traceability / recognition
ACTIVATION	In the default factory configuration, the customer / supplier fields are all active and you can disable the unused fields to make it easier to enter new records. Disabling requires advanced configuration.

Alphanumeric descriptions of 25 characters each that identify the customer / supplier.

DINI ARGEO
Scales - Weighing systems

500 materials database

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

How to fill in the database

1.

GROSS			0
kg			

PRESET   NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE

→0←   →0←

| 1. WEIGH | 2. WEIGH | PRINT | >> |

2.

GROSS			0
kg			

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEXT

→0←   →0←

| 1. WEIGH | 2. WEIGH | PRINT | >> |

3.

Material dtb

0001	Empty
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | A...Z | >> |

Once you enter the material database filling menu you can:

Enter a new material

1.

Material dtb

0001	Empty
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | A...Z | >> |

2. Fill in the fields.

Material 0008 / 0499

Description 1	
Description 2	

| ← | | DELETE |

3. Saving is automatic

Material 0008 / 0499

Description 1	CLAY
Description 2	

| ← | | DELETE |

Delete a material

1.

Material dtb

0001	KAOLIN
0002	CLAY
0003	SAND
0004	GRAVE
0005	OTHER
0006	EMPTY
0007	EMPTY
0008	EMPTY

| Esc | NEW | A...Z | >> |

2.

Material 0002 / 0499

Description 1	Clay
Description 2	

| ← | | DELETE |

3.

Material dtb

Material 0001/0499

Delete the record?

No	Yes

| Esc | NEW | A...Z | >> |

Edit an existing material

1.

Material dtb			
0001	KAOLIN		⬆
0002	CLAY		
0003	SAND		
0004	GRAVEL		
0005	OTHER		
0006	EMPTY		
0007	EMPTY		
0008	EMPTY		⬇

| Esc | NEW | 🔍 A...Z | >> |

2.

Material 0002 / 0499	
Description 1	CLAY
Description 2	

| ← | | DELETE |

3. Saving is automatic

Description 2

RED

Esc	'	<	/	]		Clear		BkSp
1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
2^F	Z	X	C	V	B	N	M	,	.
Shift	←			→	OK

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

1.

Material dtb			
0001	KAOLIN		⬆
0002	CLAY		
0003	SAND		
0004	GRAVEL		
0005	OTHER		
0006	EMPTY		
0007	EMPTY		
0008	EMPTY		⬇

| Esc | NEW | 🔍 A...Z | >> |

2.

Material

CLAY	
	⬆ ⬇
	CLEAR
C	BkSp

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
2^F	Z	X	C	V	B	N	M	Esc	
Shift					NEW	

Look for a material by its numeric index

1.

Material dtb			
0001	KAOLIN		⬆
0002	CLAY		
0003	SAND		
0004	GRAVEL		
0005	OTHER		
0006	EMPTY		
0007	EMPTY		
0008	EMPTY		⬇

| Esc | NEW | 🔍 A...Z | >> |

2.

Material dtb			
0001	KAOLIN		⬆
0002	CLAY		
0003	SAND		
0004	GRAVEL		
0005	OTHER		
0006	EMPTY		
0007	EMPTY		
0008	EMPTY		⬇

| HELP | PRINT | 🔍 INDEX | >> |

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

Material dtb

Select record

1

1 ~ 999

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

| HELP | PRINT | 🔍 INDEX | |

Select a material

1.

GROSS		
kg		**0**

PRESET	NOTES
kg	
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE

→0←			→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

Material dtb

0001	KAOLIN	⬆
0002	CLAY	
0003	SAND	
0004	GRAVEL	
0005	OTHER	
0006	EMPTY	
0007	EMPTY	
0008	EMPTY	⬇

Esc	NEW	🔍 A...Z	>>

3.

GROSS		
kg		**0**

PRESET	NOTES
kg	
CUSTOMER	
SUPPLIER	
MATERIAL KAOLIN	
VEHICLE	FREE PLATE

→0←			→0←
1. WEIGH	2. WEIGH	PRINT	>>

Clear the current material

1.

GROSS		
kg		**0**

PRESET	NOTES
kg	
CUSTOMER	
SUPPLIER	
MATERIAL KAOLIN	
VEHICLE	FREE PLATE

→0←			→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

Select material

0000	TEMPORARY	⬆
0001	KAOLIN	
0002	CLAY	
0003	SAND	
0004	GRAVEL	
0005	OTHER	
0006	EMPTY	
0007	EMPTY	⬇

Selected material: 0001

Esc	DESELECT	🔍 A...Z	🔍 INDEX

3. Press YES to clear the customer

Select material

Material 0001/0499

Deselect the record?

No	Yes

Esc	DESELECT	🔍 A...Z	🔍 INDEX

Fields of materials database

USE	Allow you to associate descriptions to each material to help to identify it in print and combine it with specific functions.
APPLICATIONS	Material traceability / recognition.
ACTIVATION	In the default factory configuration, the material fields are all active and you can disable the unused fields to make it easier to enter new records. Disabling requires advanced configuration.

Alphanumeric descriptions of 20 characters each that identify the material.

Material 0002 / 0499

Description 1	
Description 2	

←		DELETE

500 vehicles database

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

How to fill in the database

1.

GROSS		
kg		0
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

GROSS		
kg		0
CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEX
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

3.

Vehicle dtb		
0001	XX 123 YY	▲
0002	AA 321 BB	
0003	AB 456 CD	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	▼
Esc	NEW	A...Z	>>

Once you enter the vehicle database filling menu you can:

Enter a new vehicle

1.

Vehicle dtb		
0001	XX 123 YY	▲
0002	AA 321 BB	
0003	AB 456 CD	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	▼
Esc	NEW	A...Z	>>

2. Fill in the fields.

Vehicle 0001/499	
Plate	
Description	
Preset	0kg
Trailer weighing	Disabled
←	DELETE

3. Saving is automatic

Vehicle 0001/499	
Plate	JH 879 GF
Description	
Preset	0kg
Trailer weighing	Disabled
←	DELETE

Delete a vehicle

1.

Vehicle dtb		
0001	XX 123 YY	▲
0002	AA 321 BB	
0003	AB 456 C	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	▼
Esc	NEW	A...Z	>>

2.

Vehicle 0001/499	
Plate	AA 321 BB
Description	
Preset	0kg
Trailer weighing	Disabled
←	DELETE

3.

Vehicle 0001/499	
Vehicle 0001/0499	
Delete the record?	
No	Yes
←	DELETE

Edit an existing vehicle

1.

Vehicle dtb	
0001	XX 123 YY
0002	AA 321 BB
0003	AB 456 CD
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | 🔍 A...Z | >> |

2.

Vehicle 0001/499	
Plate	AA 321 BB
Description	
Preset	0kg
Trailer weighing	Disabled

| ← | | DELETE |

3. Saving is automatic

Description
IVECO

Esc	'	<	/	]	Clear	BkSp
1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
2^F	Z	X	C	V	B	N	M	,	.
Shift	←			→	OK

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

1.

Vehicle dtb	
0001	XX 123 YY
0002	AA 321 BB
0003	AB 456 CD
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | 🔍 A...Z | >> |

2.

Vehicle
AA 321 BB
AB 456 CD
A

| ↑ | ↓ |
| CLEAR |
| BkSp |

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	;
	Z	X	C	V	B	N	M	Esc
t				NEW

Look for a vehicle by its numeric index

1.

Vehicle dtb	
0001	XX 123 YY
0002	AA 321 BB
0003	AB 456 CD
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | 🔍 A...Z | >> |

2.

Vehicle dtb	
0001	XX 123 YY
0002	AA 321 BB
0003	AB 456 CD
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| HELP | PRINT | 🔍 INDEX | >> |

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

Select record	
	1
1 ~ 999	

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

| HELP | PRINT | 🔍 INDEX | |

Select a vehicle

1.

GROSS		0
kg		

PRESET		NOTES
kg		
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE

| →0← | | →0← |
| 1. WEIGH | 2. WE | PRINT | >> |

2.

Vehicle dtb	
0001	XX 123 YY
0002	AA 321 BB
0003	AB 456 CD
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | 🔍 A...Z | >> |

3.

GROSS		0
kg		

PRESET		NOTES
kg		
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE
XX 123 YY	

| →0← | | →0← |
| 1. WEIGH | 2. WEIGH | PRINT | >> |

Clear the current vehicle

1.

GROSS	
kg	**0**

PRESET		NOTES	
kg			
CUSTOMER			
SUPPLIER			
MATERIAL			
VEHICLE			
AA 321 BB		FREE PLATE	
→0←			→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

Select Vehicle		
0000	Temporary	⬆
0001	**AA 321 BB**	
0002	**AB 456 CD**	
0003	Vuoto	
0004	Vuoto	
0005	Vuoto	
0006	Vuoto	
0007	Vuoto	⬇

Selected vehicle: 0001

Esc	DESELECT	🔍 A...Z	🔍 INDEX

3. Press YES to clear the vehicle

Select Vehicle

Vehicle 0001/0499

Deselect the record?

No	Yes

Esc	DESELECT	🔍 A...Z	🔍 INDEX

Fields of vehicles database

USE	Allow you to associate descriptions to each vehicle to help to identify it in print and combine it with specific functions.
APPLICATIONS	Vehicle traceability / recognition
ACTIVATION	In the default configuration, all fields are active and you can disable the unused fields to make it easier to enter new records. Disabling requires advanced configuration.

Vehicle license plate, max 20 characters. In the "recognition by numberplate" mode, identifies the first weighing *(see page A-2)*.

Alphanumeric description of 20 characters that can be shown in print.

By no entering a vehicle weight (0kg), there is no need to execute the first weighing, but only the second *(see page A-11)*.

Vehicle 0001/499

Plate	
Description	
Preset	**0kg**
Trailer weighing	Disabled

←		DELETE

Entering weighing identifier texts

USE	You can enter up to 15 texts to indicate the location and address of the weighbridge, operator or any required data. Such data may be shown in the printout or transmitted to the IT system or saved on USB devices.
APPLICATIONS	Traceability of weighings.
ACTIVATION	The free texts "NOTE 1" and "NOTE 2" are active as 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 G-1)*

The indicator is standard supplied with two quick retrieve ID texts: "NOTE 1" and "NOTE 2".

1.

2. Enter free texts in sequence

3.

How to access the complete list of texts

1.

2.

3.

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

Alternatives:

1. Create buttons to directly fill out all the necessary identification texts, making filling out faster.

Example

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

1000 cards database

USE	Allows you to attach to a card one or more records of the database to speed up selection and automate weighing operations.
APPLICATIONS	Automated / Self service weighing
ACTIVATION	Filling out the cards and associating to the database are active as standard. Activation of automated weighing requires advanced configuration.

How to fill in the database

1.

GROSS	0
kg	

PRESET · NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE · FREE PLATE
→0← · →0←
1. WEIGH · 2. WEIGH · PRINT · >>

2.

GROSS	0
kg	

CUSTOMERS · SUPPLIERS
MATERIALS · VEHICLES
MENU · INPUT TEXT
→0← · →0←
1. WEIGH · 2. WEIGH · PRINT · >>

3.

User setup
...
...
...
Databases
...
...
Esc

4.

User setup
...
...
...
Cards database
...
...
Esc

5.

Card dtb
0001 Empty
0002 Empty
0003 Empty
0004 Empty
0005 Empty
0006 Empty
0007 Empty
0008 Empty
Esc · NEW · A...Z · >>

6.

Card 0001 / 0999
Code
Linked customer · Disabled
Linked material · Disabled
Linked vehicle · Disabled
Linked supplier · Disabled
← · DELETE

7. Identify the card by the reader.

8. Fill all the fields.

Card 0001 / 0999
Code · 123456
Linked customer · Disabled
Linked material · Disabled
Linked vehicle · Disabled
Linked supplier · Disabled
← · DELETE

It is possible to choose the selction mode for each linked record

Linked customer
◉ Disabled
○ Manual selection
○ Automatic selection
Cancel · OK

---

i By choosing "manual", the record selection will be asked to the driver during the weighing procedure *(see page D-14)*

Example of quick database records selection and manual execution of weighing.

1. Identification

2. Autofill

GROSS		
kg	**50000**	

| PRESET | NOTES |
| kg | |

| CUSTOMER |
| SMIDTH LTD |
| SUPPLIER |
| WHITE LTD |
| MATERIAL |
| CLAY |
| VEHICLE | FREE PLATE |
| XX 123 YY | |

| →0← | | →0← |

| 1. WEIGH | 2. WEIGH | PRINT | >> |

3.

GROSS		
kg	**50000**	

| PRESET | NOTES |
| kg | |

| CUSTOMER |
| SMIDTH LTD |
| SUPPLIER |
| WHITE LTD |
| MATERIAL |
| CLAY |
| VEHICLE | FREE PLATE |
| XX 123 YY | |

| →0← | | →0← |

| 1. WEIGH | 2. WEIGH | PRINT | >> |

i Using the card you can also automatically execute the first and second weighing further speeding up the procedure. Enabling this feature requires advanced configuration.

Password to access the database management menu

USE	Allows you to protect database entry and editing (customers, suppliers, materials and trucks)
ACTIVATION	Activation requires advanced configuration.

1.

GROSS		
kg		0

PRESET	NOTES
kg	
CUSTOMER	
SUPPLIER	
MATERIAL	
VEHICLE	FREE PLATE

→0← | | →0←

| 1. WEIGH | 2. WEIGH | PRINT | >> |

2.

GROSS		
kg		0

CUSTOMERS	SUPPLIERS
MATERIAL	VEHICLES
MENU	INPUT TEXT

→0← | | →0←

| 1. WEIGH | 2. WEIGH | PRINT | >> |

3. Enter the password and press OK

GROSS	
Password archivi	0

0.000 ~ 65534

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

| 1. WEIGH | 2. WEIGH | PRINT | |

i The password is univocal for database data entries.

Compiling database from PC with "DBManager"

USE	Allows you to quickly fill out the scale database 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.

Excel

Management

Cloud

DBManager software

DINI ARGEO
Scales - Weighing systems

Introduction

The AF03 program includes the self service operating mode which allows the driver to perform weighings independently. Depending on the system to be set up, it is possible to select two different operating modes:
• Self-service weighing with identification by badge, RFID or remote control;
• Self service weighing charged with tokens or discount card.

For the badge, RFID or remote control identification mode, you can also choose the work mode:
• Single weighing
• Multiple weighing

DINI ARGEO offers a self-service system complete with touch screen indicator, identification device and printer.

Touch screen indicator

Identification device

Printer

Outdoor electrical panel

Display - main self service function screens

Automatic self service function

Button	Function
(1)	Language selection
(2)	Messages for the driver
(3)	Hidden button for access to the programming area
(4)	Customer database

Button	Function
(5)	Materials database
(6)	Vehicles database
(7)	Suppliers database
(8)	Card programming
(9)	Total collection (for coin meter)

Self service functionality with manual selection of database

Button	Function
(1)	Customer database
(2)	Materials database
(3)	Vehicles database
(4)	Supplier database

DINI ARGEO
Scales - Weighing systems

Display symbols

Symbol	Description
→0←	The scale is unloaded and at zero (gross).
PT	You have selected a vehicle associated with tare weight.
~	The weight is unstable.
🖶 ⚠ ⛔	Printing in progress / printer anomalies.
W1 W2 W3	Indicate the range of active weighing.
🔌 🔋	Powered / Battery level
⚖A	Active scale.

Operation with badge / RFID

USE	Allow automatic selection of the associated database records and executing the weighing.
ACTIVATION	In self service mode the cards archive is automatically activated, on which the database record (truck numberplate, material, customer, etc.) are associated to each card.

Example of single weighing

1.

GROSS
50000 kg ⚖1

WEIGHBRIDGE

2. Select the language

GROSS
50000 kg

SYSTEM READY
IDENTIFY WITH THE CARD

IT   FR
          DE

3. Identify

4.


```
        DINI ARGEO
      Scales - Weighing systems
------------------------------
PLATE           XY 123 XY
------------------------------
CUSTOMER    SMIDTH LTD
SUPPLIER      WHITE LTD
MATERIAL        ARGILLA
VEHICLE        XY 123 XY
SCALE                   A
05/04/2016 16:00
PROGRESSIVE            1
------------------------------
NET           50000 kg
```

ℹ
- The weight can be always visible or inhibited until successful identification.
- The weighing operation is performed only if the card has been associated with a vehicle in the database.
- You may decide to select quickly the database records and allow the driver to identify manually by entering the numberplate of their vehicle.
- You can automatically select a part of the database records (e.g. customer and vehicle) and allow the driver to manually complete selection of the fields (e.g. material, supplier).
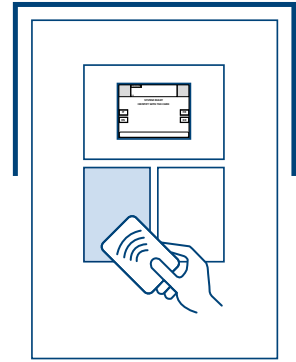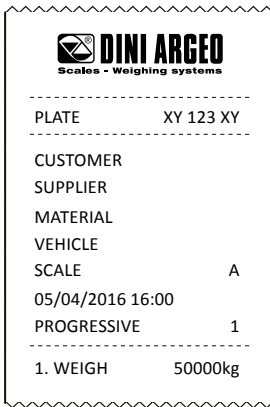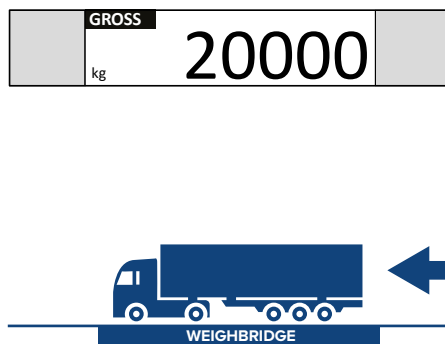
Example of multiple weighing

1.

GROSS
kg **50000**

WEIGHBRIDGE

2. Select the language

GROSS
kg **50000**

SYSTEM READY
IDENTIFY WITH THE CARD

IT   FR
            DE

3. Identify

4.

```
      DINI ARGEO
   Scales - Weighing systems
-----------------------------
PLATE           XY 123 XY
-----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE              A
05/04/2016 16:00
PROGRESSIVE        1
-----------------------------
1. WEIGH      50000kg
```

5.

GROSS
kg **20000**

WEIGHBRIDGE

6. Select the language

GROSS
kg **20000**

SYSTEM READY
IDENTIFY WITH THE CARD

IT   FR
            DE

7. Identify

8.

```
      DINI ARGEO
   Scales - Weighing systems
-----------------------------
PLATE           XY 123 XY
-----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
05/04/2016 16:00
PROGRESSIVE        2
1. WEIGH      50000kg
2. WEIGH      20000kg
-----------------------------
NET           30000kg
```

i The weight can be always visible or inhibited until successful identification.

Multiple weighing with barcode reading

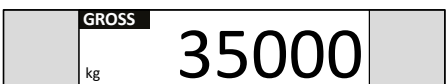| USE	Allows you to quickly retrieve the first weighing by reading the bar code printed on the receipt.
ACTIVATION	Activation requires advanced configuration.

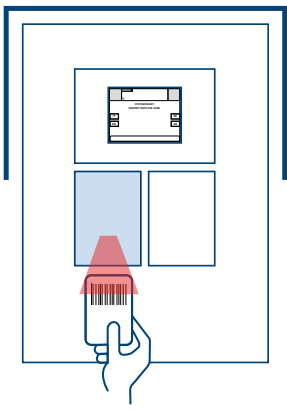## Registration procedure of the first weighing

1.

2.

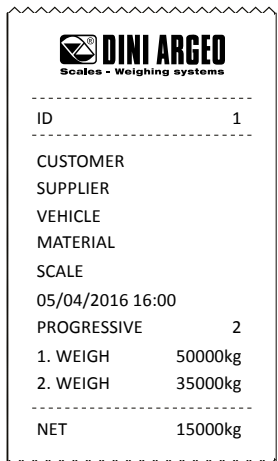3. Enter the license plate of the vehicle


```
ID                    1 *
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE
05/04/2016 16:00
PROGRESSIVE          1
1. WEIGH        50000kg
```

* The ID is also printed in the form of barcode

Registration procedure of the second weighing

1.

2.

3. The second weighing is performed automatically, with summary receipt printing.


```
ID                    1
CUSTOMER
SUPPLIER
VEHICLE
MATERIAL
SCALE
05/04/2016 16:00
PROGRESSIVE          2
1. WEIGH        50000kg
2. WEIGH        35000kg
NET             15000kg
```

4. Now it is possible to print one or more copies of the receipt, or unload the weighbridge / press ESC to return to weighing mode.
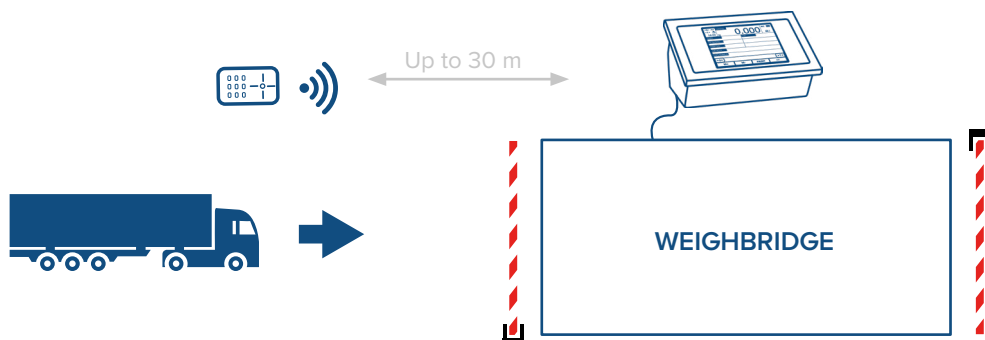
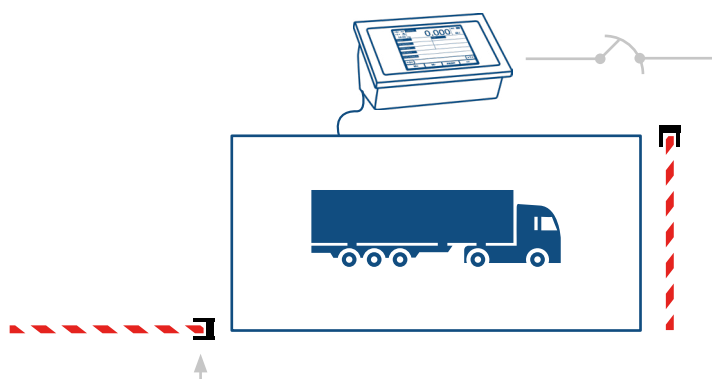DINI ARGEO
Scales - Weighing systems

Operation with RF remote control

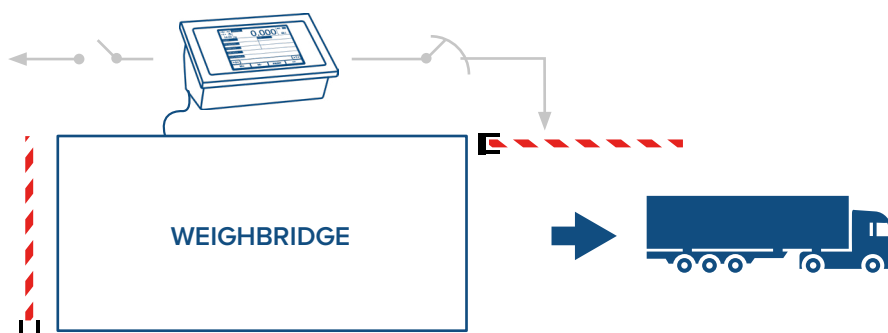| USE	Allows you to execute identification remotely through the use of an RF remote control. Useful in systems with access barriers.
ACTIVATION	Activation requires advanced configuration.

Application example

1. Press the identification key on the remote control

Up to 30 m

WEIGHBRIDGE

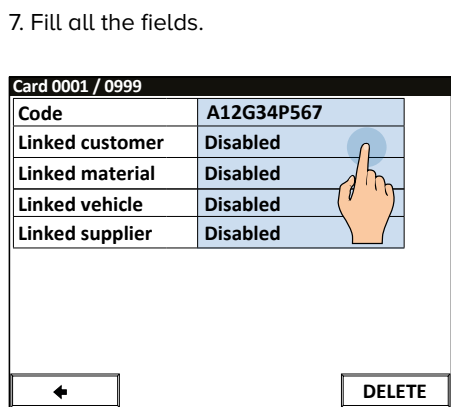2. Access to weighbridge authorised and automatic weighing with stable weight.

3. Successfully executed weighing

WEIGHBRIDGE

DINI ARGEO
Scales - Weighing systems

Remote control configuration (up to 1000)

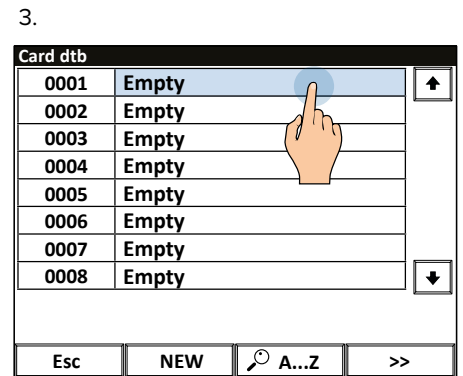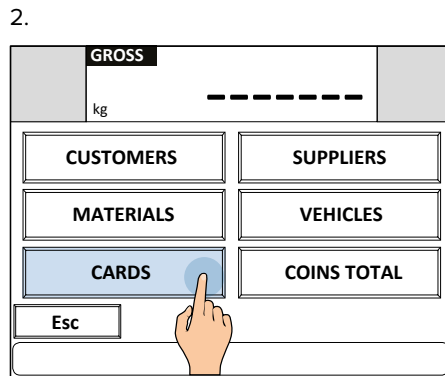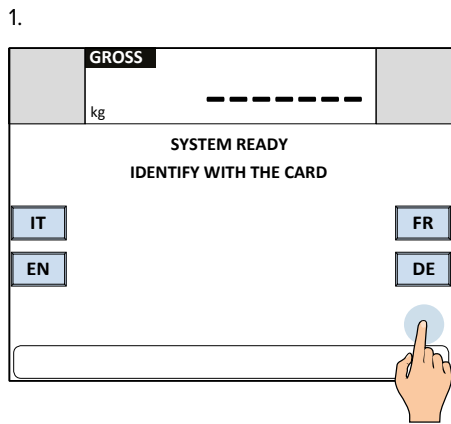| USE	Allows you to associate to a remote control the customer, the material, the vehicle and the supplier for quick recognition.
ACTIVATION	Filling in of the database is active as standard. Enabling operation via the remote control requires an advanced setup.

1.

```
GROSS
                    ──────
kg
         SYSTEM READY
      IDENTIFY WITH THE CARD

 IT                        FR

 EN                        DE
```

2.

```
GROSS
                    ──────
kg
   CUSTOMERS        SUPPLIERS

   MATERIALS        VEHICLES

    CARDS          COINS TOTAL

 Esc
```

3.

```
Card dtb
  0001   Empty                    ↑
  0002   Empty
  0003   Empty
  0004   Empty
  0005   Empty
  0006   Empty
  0007   Empty
  0008   Empty                    ↓

  Esc      NEW      A...Z      >>
```

4.

```
Card 0001 / 0999
 Code
 Linked customer    Disabled
 Linked material    Disabled
 Linked vehicle     Disabled
 Linked supplier    Disabled




  ←                    DELETE
```

5.

6.

```
Description
 A12G34P567
 Esc   '   <   /   ]   Clear    BkSp
  1  2  3  4  5  6  7  8  9  0
  Q  W  E  R  T  Y  U  I  O  P
  A  S  D  F  G  H  J  K  L  ;
 2^F  Z  X  C  V  B  N  M  ,  .
 Shift   ←            →      OK
```

7. Fill all the fields.

```
Card 0001 / 0999
 Code               A12G34P567
 Linked customer    Disabled
 Linked material    Disabled
 Linked vehicle     Disabled
 Linked supplier    Disabled




  ←                    DELETE
```

It is possible to choose the selction mode for each linked record

```
Linked customer
  ○  Disabled

  ○  Manual selection

  ●  Automatic selection




 Cancel                   OK
```

8.

```
Link customer
  0001    WHITE LTD





 Linked customer: 0001
  ←     UNLINK    A..Z    INDEX
```

9.

```
Card 0001 / 0999
 Code               A12G34P567
 Linked customer    WHITE LTD
 Linked material    Disabled
 Linked vehicle     Disabled
 Linked supplier    Disabled




  ←                    DELETE
```
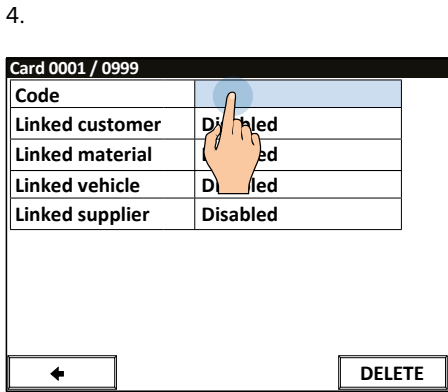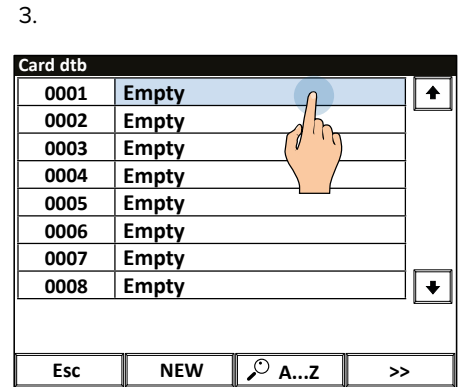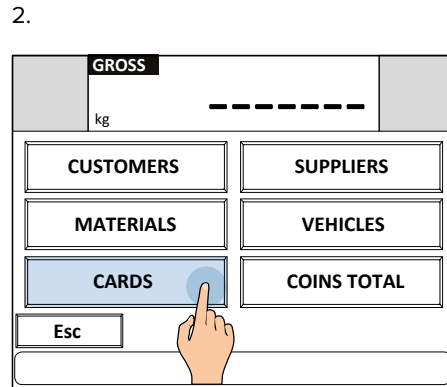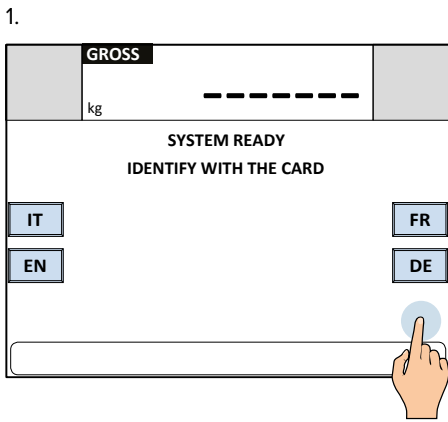
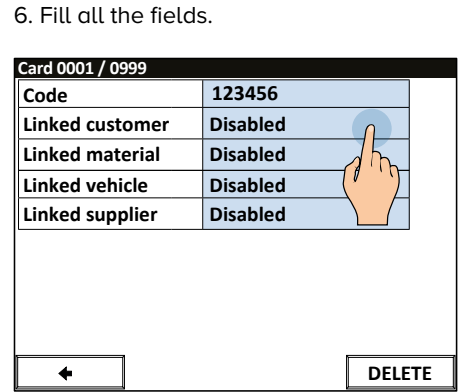*i* Weighing is carried out only if a vehicle is associated to the remote control.

i By choosing "manual", the record selection will be asked to the driver during the weighing procedure *(see page D-14)*

DINI ARGEO
Scales - Weighing systems

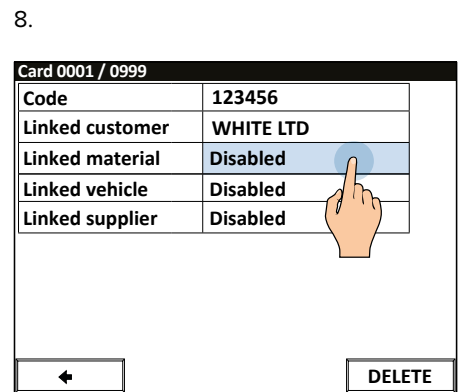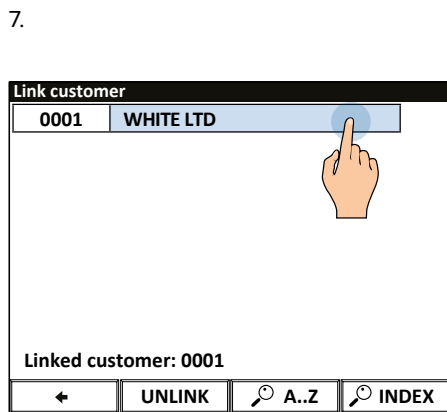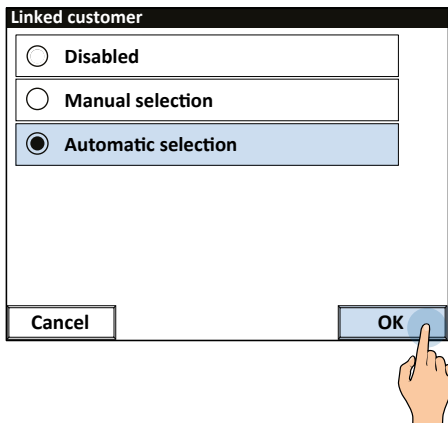# Card configuration (up to 1000)

USE	Allows you to associate to a card the customer, the material, the vehicle and the supplier for quick recognition.
ACTIVATION	Filling in of the database is active as standard. Enabling operation by card requires an advanced setup.

1.

GROSS		
kg	_ _ _ _ _ _ _	

SYSTEM READY
IDENTIFY WITH THE CARD

| IT | | FR |
| EN | | DE |

2.

GROSS		
kg	_ _ _ _ _ _ _	

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
CARDS	COINS TOTAL
Esc	

3.

Card dtb

0001	Empty
0002	Empty
0003	Empty
0004	Empty
0005	Empty
0006	Empty
0007	Empty
0008	Empty

| Esc | NEW | 🔍 A...Z | >> |

4.

Card 0001 / 0999

Code	
Linked customer	Disabled
Linked material	Disabled
Linked vehicle	Disabled
Linked supplier	Disabled

| ← | | DELETE |

5. Identify the card by the reader.

6. Fill all the fields.

Card 0001 / 0999

Code	123456
Linked customer	Disabled
Linked material	Disabled
Linked vehicle	Disabled
Linked supplier	Disabled

| ← | | DELETE |

It is possible to choose the selction mode for each linked record

Linked customer

- ◯ Disabled
- ◯ Manual selection
- ◉ Automatic selection

| Cancel | | OK |

7.

Link customer

0001	WHITE LTD

Linked customer: 0001

| ← | UNLINK | 🔍 A..Z | 🔍 INDEX |

8.

Card 0001 / 0999

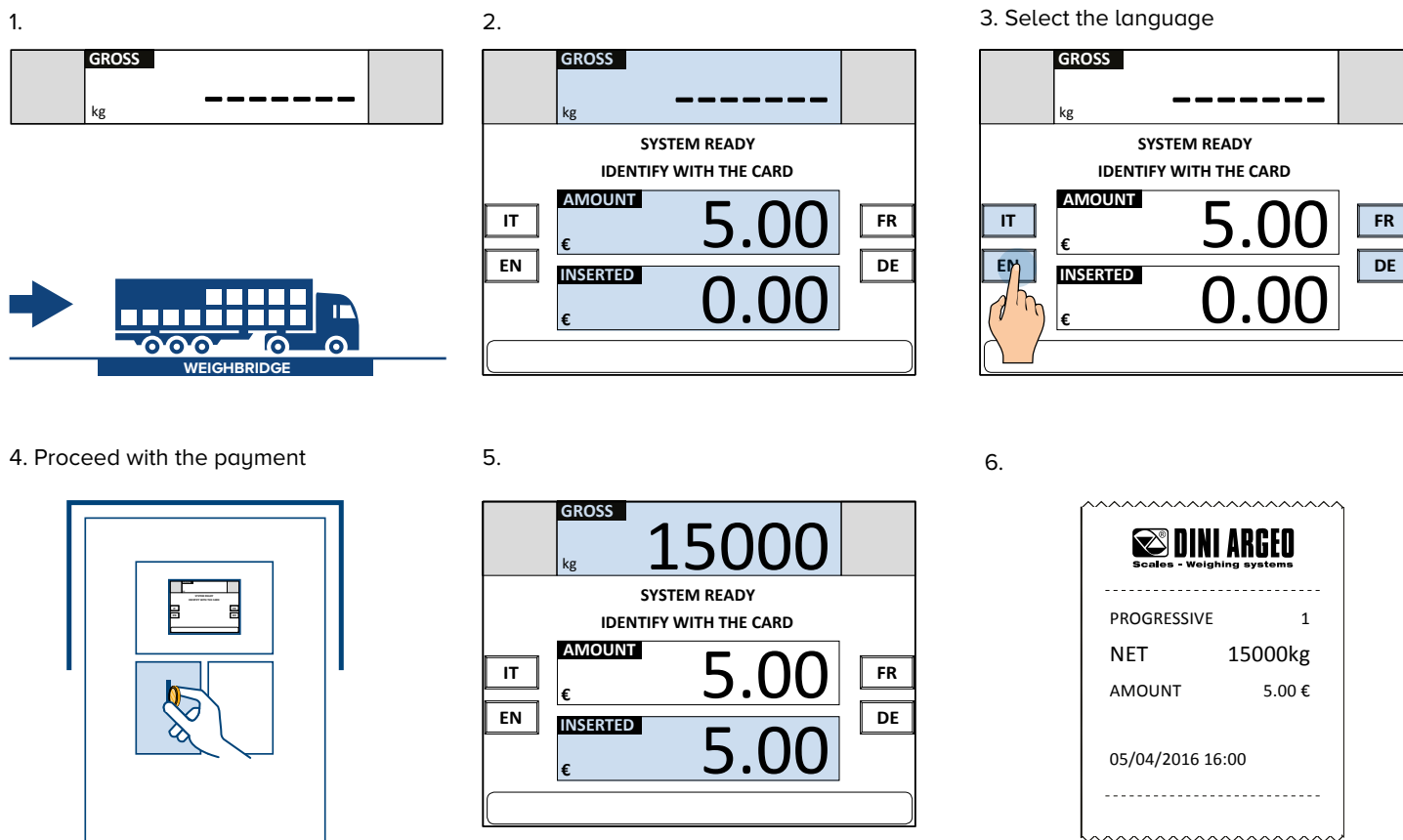| Code	123456
Linked customer	WHITE LTD
Linked material	Disabled
Linked vehicle	Disabled
Linked supplier	Disabled

| ← | | DELETE |

i Weighing is carried out only if a vehicle is associated to the card.

i By choosing "manual", the record selection will be asked to the driver during the weighing procedure *(see page D-14)*

DINI ARGEO
Scales - Weighing systems

Weighing charge with coin acceptor

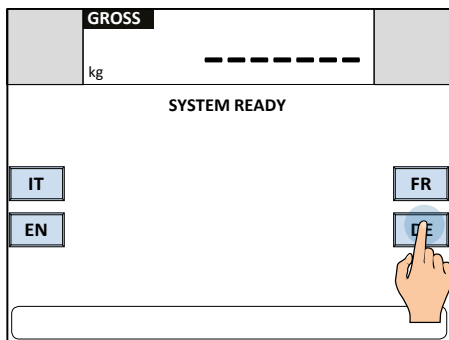|	
USE	Allows you to perform weighings only upon payment of the set amount. The weighing fee is determined based on the weight, with the option to configure up to six different thresholds.
ACTIVATION	Weighing charge activation and setup of payment thresholds require advanced configuration

1.

GROSS
kg — — — — — — —

→ WEIGHBRIDGE

2.

GROSS
kg — — — — — — —
SYSTEM READY
IDENTIFY WITH THE CARD
IT | AMOUNT € **5.00** | FR
EN | INSERTED € **0.00** | DE

3. Select the language

GROSS
kg — — — — — — —
SYSTEM READY
IDENTIFY WITH THE CARD
IT | AMOUNT € **5.00** | FR
EN | INSERTED € **0.00** | DE

4. Proceed with the payment

5.

GROSS
kg **15000**
SYSTEM READY
IDENTIFY WITH THE CARD
IT | AMOUNT € **5.00** | FR
EN | INSERTED € **5.00** | DE

6.

DINI ARGEO
Scales - Weighing systems
- - - - - - - - - - - - - - - - - - -
PROGRESSIVE   1
NET   15000kg
AMOUNT   5.00 €

05/04/2016 16:00
- - - - - - - - - - - - - - - - - - -

i
- The weight may always be visible or inhibited until successful payment.
- The system can operate either with tokens or with coins.
- Decimals and currency are freely configurable.

i
The weighing fee is freely configurable and is based on one or more weight thresholds (up to 6).
Example:
up to 2,000 kg = € 2.00;
from 2,001 to 10,000 kg = € 4.00;
from 10,001 to 20,000 kg = € 5.00;
etc.

DINI ARGEO
Scales - Weighing systems

How to know and clear the total coins

1.

GROSS	
kg	— — — — — — —

SYSTEM READY

| IT | | FR |
| EN | | DE |

2.

GROSS	
kg	— — — — — — —

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
CARDS	COINS TOTAL
Esc	

3.

DINI ARGEO
Scales - Weighing systems

- - - - - - - - - - - - - - - - - - - -

05/04/2016 16:00

COINS TOTAL   5.00 €

- - - - - - - - - - - - - - - - - - - -

4.

GROSS

Reset the money total

Confirm resetting?

| No | Yes |

DINI ARGEO
Scales - Weighing systems

Instant debit / postponed payment weighing or free weighing

USE	Allows you to manage payment of the weighing through card, without using cash. This functionality needs the selection of a customer from database.
ACTIVATION	Activation requires advanced configuration.

1.

GROSS
kg
_ _ _ _ _ _

WEIGHBRIDGE

2.

GROSS
kg
_ _ _ _ _ _

SYSTEM READY
IDENTIFY WITH THE CARD

IT   EN

AMOUNT
€ 5.00

FR   DE

3. Select the language

GROSS
kg
_ _ _ _ _ _

SYSTEM READY
IDENTIFY WITH THE CARD

IT   EN

AMOUNT
€ 5.00

FR   DE

4. Proceed with the payment

5.

GROSS
kg
15000

SYSTEM READY
DONE: NEW DEBIT= 20 €
UNLOAD THE SCALE

IT   EN

FR   DE

6.

DINI ARGEO
Scales - Weighing systems

05/04/2016 16:00

PROGRESSIVE   1
NET   15000kg
AMOUNT   5.00 €

ℹ

- The weight may always be visible or inhibited until successful payment.
- Decimals and currency are freely configurable.

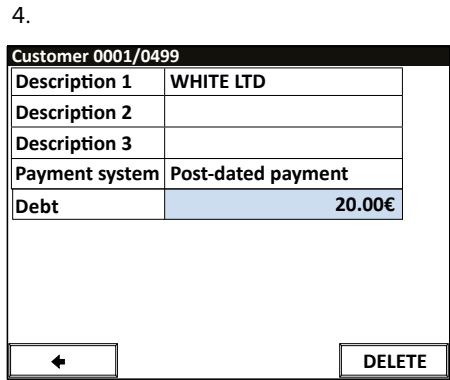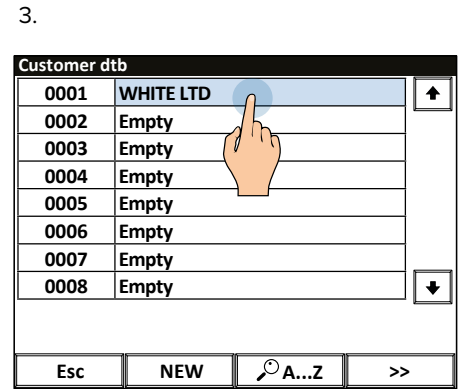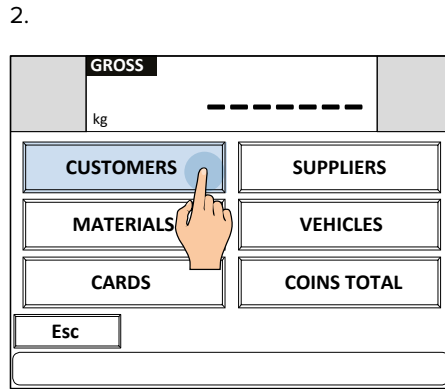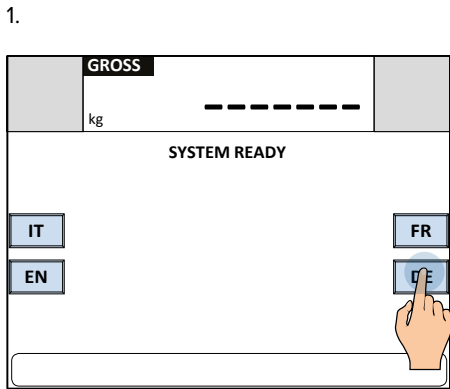# How to assign the payment system for each customer

1.

GROSS	
kg	– – – – – –

SYSTEM READY

| IT | | FR |
| EN | | DE |

2.

GROSS	
kg	– – – – – –

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEXT

| →0← | | →0← |
| 1. WEIGH | 2. WEIGH | PRINT | >> |

3.

Customer dtb

0001	WHITE LTD	⬆
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	⬇

| Esc | NEW | 🔍 A...Z | >> |

4.

Customer 0001/0499

Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	
Debt	

| ← | DELETE |

5.

Payment system

| ◉ Advance payment |
| ○ Post-dated payment |
| ○ Free |

| Cancel | OK |

6.

Customer 0001/0499

Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	Advance payment
Credit	0.00€

| ← | DELETE |

7.

Customer 0001/0499

Credit	WHITE LTD
	20.00
	0 ~ 999999

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

| ← | DELETE |

8.

Customer 0001/0499

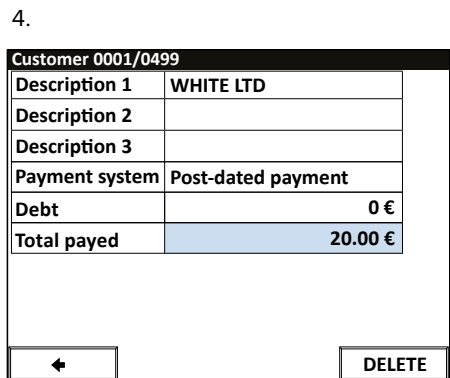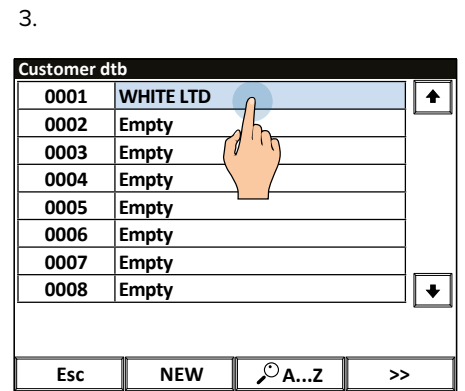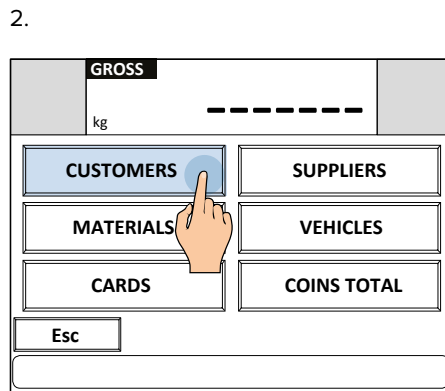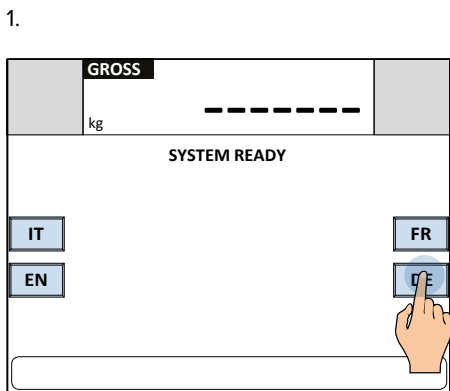| Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	Addebito istantaneo
Credit	20.00€

| ← | DELETE |

How to know the debt accumulated by a customer

ACTIVATION	Viewing the accumulated debt is only available if the deferred payment mode is active.

1.

GROSS		
kg	– – – – – –	
	SYSTEM READY	
IT		FR
EN		DE

2.

GROSS		
kg	– – – – – –	
CUSTOMERS		SUPPLIERS
MATERIALS		VEHICLES
CARDS		COINS TOTAL
Esc		

3.

Customer dtb

0001	WHITE LTD	
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	

Esc	NEW	A...Z	>>

4.

Customer 0001/0499

Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	Post-dated payment
Debt	20.00€

←		DELETE

How to know and clear the total paid by a customer

ACTIVATION	This function is activated as standard in the self service for a fee mode.

1.

GROSS		
kg	– – – – – –	
	SYSTEM READY	
IT		FR
EN		DE

2.

GROSS		
kg	– – – – – –	
CUSTOMERS		SUPPLIERS
MATERIALS		VEHICLES
CARDS		COINS TOTAL
Esc		

3.

Customer dtb

0001	WHITE LTD	
0002	Empty	
0003	Empty	
0004	Empty	
0005	Empty	
0006	Empty	
0007	Empty	
0008	Empty	

Esc	NEW	A...Z	>>

4.

Customer 0001/0499

Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	Post-dated payment
Debt	0 €
Total payed	20.00 €

←		DELETE

5. To reset the total

Customer 0001/0499

Description 1	WHITE LTD
Description 2	
Description 3	
Payment system	Post-dated payment
Debt	0 €
Total payed	20.00 €

←		DELETE

6.

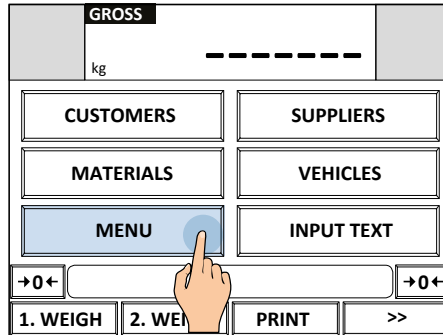| GROSS		
Reset the money total		
	Confirm resetting?	
IT		FR
No	Yes	
EN		DE

How to request a driver to enter some data

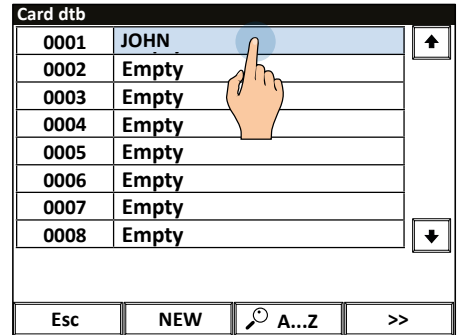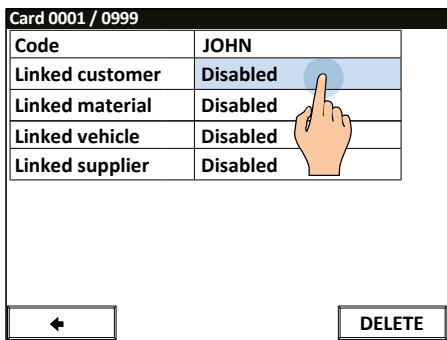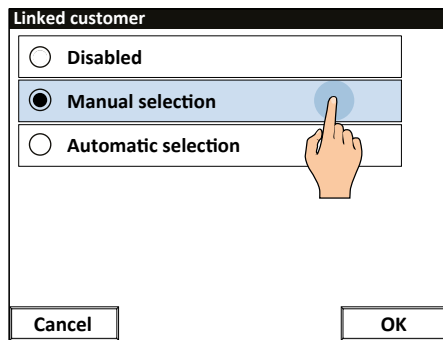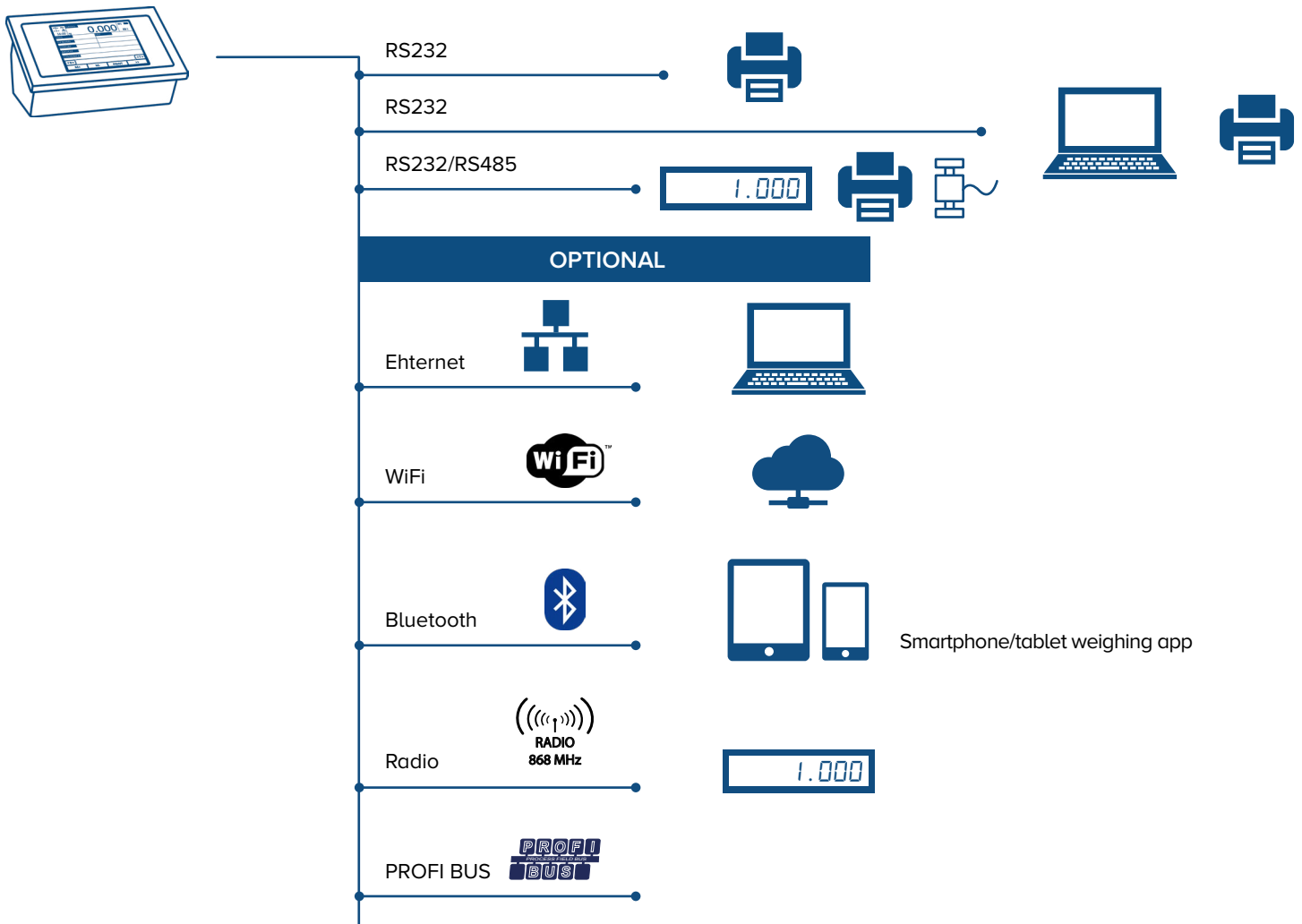| USE	Allows you to automatically select the fixed data (customer, vehicle) and request the driver to enter the variable data, such as the transported material and the supplier.
ACTIVATION	In the self service mode with badge/RFID recognition the function is active as standard.

1.

```
GROSS
_____
kg
        SYSTEM READY

IT                        FR
EN                        DE
```

2.

```
GROSS
_____
kg
CUSTOMERS        SUPPLIERS
MATERIALS        VEHICLES
MENU             INPUT TEXT
→0←                    →0←
1. WEIGH  2. WE   PRINT    >>
```

3.

```
Card dtb
0001   JOHN                    ↑
0002   Empty
0003   Empty
0004   Empty
0005   Empty
0006   Empty
0007   Empty
0008   Empty                   ↓

Esc      NEW    🔍 A...Z    >>
```

4.

```
Card 0001 / 0999
Code              JOHN
Linked customer   Disabled
Linked material   Disabled
Linked vehicle    Disabled
Linked supplier   Disabled

←                       DELETE
```

5.

```
Linked customer
○  Disabled
●  Manual selection
○  Automatic selection

Cancel                      OK
```

i

Upon weighing the driver will have to manually enter all data configured as "manual selection".
The data will be required in sequence.

DINI ARGEO
Scales - Weighing systems

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

RS232

RS232

RS232/RS485

OPTIONAL

Ehternet

WiFi

Bluetooth

Smartphone/tablet weighing app

Radio

RADIO
868 MHz

1.000

PROFI BUS

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.
APPLICATION	Internal controls / Traceability.
ACTIVATION	Standard active function.

1.

2.

GROSS	20000	
kg		

PRESET kg		NOTES	
CUSTOMER			
SUPPLIER			
MATERIAL			
VEHICLE		FREE PLATE	

→0← | | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

WEIGHBRIDGE

3.

DINI ARGEO
Scales - Weighing systems
- -
SCALE   A
05/04/2016 16:00
GROSS   20000kg
- -

Customisable print format

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

Over 300 data available to print
- Weights
- Descriptions
- Texts
- Traceability Data
- Images
- Logos
- Barcode/QR Codes
- Dates (production, packaging, deadline etc)
- Batch
- Operator

Multi-copy printing

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

1.

2.

3.

4.

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

6.

7.

GROSS		
kg	**20000**	
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	

→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

8. Automatic multi-copy printing at every weigh

Copy 1

```
      ⊠ DINI ARGEO
      Scales - Weighing systems
----------------------------------
ID                              1
----------------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                           A
05/04/2016 16:00
PROGRESSIVE                     1
----------------------------------
1.WEIGH              20000kg
```

Copy 2

```
      ⊠ DINI ARGEO
      Scales - Weighing systems
----------------------------------
ID                              1
----------------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                           A
05/04/2016 16:00
PROGRESSIVE                     1
----------------------------------
1.WEIGH              20000kg
```

Copy 3

```
      ⊠ DINI ARGEO
      Scales - Weighing systems
----------------------------------
ID                              1
----------------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                           A
05/04/2016 16:00
PROGRESSIVE                     1
----------------------------------
1.WEIGH              20000kg
```

Repeat last printout

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

1.

```
        NET
             20000
        kg
PRESET              NOTES
kg
CUSTOMER

SUPPLIER

MATERIAL

VEHICLE              FREE PLATE
→0←                              →0←
        2. WEIGH    PRINT     >>
```

2.

```
        GROSS
             20000
        kg
  CUSTOMERS        SUPPLIERS

  MATERIALS        VEHICLES

  MENU             INPUT TEXT
→0←                          →0←
1. WEIGH   2. WEIGH   PRINT    >>
```

3.

```
User setup
              ...              ↑
              ...
              ...
           Printout
              ...
              ...              ↓
  Esc
```

4.

```
User setup
              ...              ↑
              ...
              ...
       Last printout copy
              ...
              ...              ↓
  Esc
```

5.

```
        DINI ARGEO
        Scales - Weighing systems
-----------------------------
ID                         1
-----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                      A
05/04/2016 16:00
PROGRESSIVE                1
-----------------------------
1.WEIGH           20000kg
```

Alternative

After performing the second weighing it is possible to reprint multiple copies of the receipt by pressing the COPY button.

1.

```
        GROSS
             35000
        kg
1. WEIGH           2. WEIGH
kg       50.000   kg      35.000
NET
kg                        15.000
NOTE 1             NOTE 2

CUSTOMER           SUPPLIER

MATERIAL           VEHICLE

  Esc      ←              OK
```

2.

```
        DINI ARGEO
        Scales - Weighing systems
-----------------------------
ID                         1
-----------------------------
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE
SCALE                      A
05/04/2016 16:00
PROGRESSIVE                2
-----------------------------
1.WEIGH           50000kg
2.WEIGH           35000kg
-----------------------------
NET               15000kg
```

3.

```
        GROSS
             35000
        kg
1. WEIGH           2. WEIGH
kg       50000    kg      35000
NET
kg                        15000
NOTE 1             NOTE 2

CUSTOMER           SUPPLIER

MATERIAL           VEHICLE

  Esc                    COPY
```

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 weighings • Control reporting • Empowering operators
ACTIVATION	Activation requires advanced configuration.

i Note: while weighing, the USB drive must be installed

1.

GROSS
50000 kg

→ WEIGHBRIDGE

2.

GROSS
50000 kg

PRESET | NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE | FREE PLATE
→0← | | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3. Automatic saving to a USB device

4.

N.	MATERIAL	CUSTOMER	LOT	NET (kg)	DATE
1	APPLE	SMIDTH LTD	A22	1000	01-03-16
2	PEACH	WHITE LTD	A24	2276	01-03-16
3	BANANA	BLACK LTD	A22	6754	01-03-16
4	PEAR	RED LTD	S34	5498	01-03-16
5	KIWI	SMIDTH LTD	A27	6534	01-03-16
6	MANGO	WHITE LTD	A56	1200	01-03-16
7	PLUM	BLACK LTD	A23	3487	01-03-16
8	PAPAYA	SMIDTH LTD	B54	5400	01-03-16
9	PINEAPPLE	SMIDTH LTD	V43	3200	01-03-16

i 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 weighings 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 weighing 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:

Weight
123.0kg (00000-000260)

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

How to record a weighing

1.

2.

3. Automatic printing and storing at every totalisation.

ALIBI MEMORY

Read the alibi memory

USE	Allows you to check a weighing 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 be verified:

123.0kg (0 - 260)

Rewriting number   Weighing number

1.

2.

3.

4.

5.

6. Enter the "rewriting number"

7. Enter the "weighing number"

8. Summary of weigh 0 - 260.

Alibi memory reading	
REWRITING NUMBER	0
WEIGH NUMBER	260
SCALE	0
GROSS	123.0kg
TARE	0kg
NET	123.0kg

Saving weighings 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 (descriptions, batch, operator, date, etc.)
APPLICATIONS	Traceability / Production monitoring
ACTIVATION	The "WeiMonitor" program is optional, requires a license and advanced configuration.

1.

GROSS
50000
kg

→ WEIGHBRIDGE

2.

GROSS
50000
kg

PRESET   NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3. Automatic save to PC using the "WeiMonitor" program

4.

N.	MATERIAL	CUSTOMER	LOT	NET (kg)	DATE
1	APPLE	SMIDTH LTD	A22	1020	01-03-16
2	PEACH	WHITE LTD	A24	2276	01-03-16
3	BANANA	BLACK LTD	A22	6754	01-03-16
4	PEAR	RED LTD	S34	5498	01-03-16
5	KIWI	SMIDTH LTD	A27	6534	01-03-16

i

Communication between scale and PC occurs via RS232, USB, Ethernet or WiFi *(see page E-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.

DINI ARGEO
Scales - Weighing systems

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 procedures, 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 recording the first weighing, selecting the customer, material, filling in the free texts, acquisition of weighing and automatic issue of the printout:

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 a memory area designated for 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 a number of 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.

Screen 1

GROSS
kg
0

PRESET
kg
NOTES
CUSTOMER
MATERIAL SUPPLIER
VEHICLE
FREE PLATE
→0← →0←
1. WEIGH | 2. WEIGH | PRINT | >>

Screen 2

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

Screen 3

GROSS
kg
5000

TARE LOT
kg
MATERIAL
OK
1. WEIGH | 2. WEIGH
→0← →0←

i

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 language / texts

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.

i

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

DINI ARGEO
Scales - Weighing systems

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.)

Actuators:

Example of dosing with N.C. setpoint

START

STOP

ℹ️ The scale has 4 relay outputs, expandable up to 16 with optional board.

Set the activation thresholds

1.

GROSS		
kg	**50000**	
PRESET	NOTES	
kg		
CUSTOMER		
SUPPLIER		
MATERIAL		
VEHICLE	FREE PLATE	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

2.

GROSS		
kg	**50000**	
CUSTOMERS	SUPPLIERS	
MATERIALS	VEHICLES	
MENU	INPUT TEXT	
→0←		→0←
1. WEIGH	2. WEIGH	PRINT	>>

3.

User setup

...
...
...
Generic functions
...
...
Esc

4.

Generic function

...
...
...
Output setpoint setting
...
...
Esc	←

5.

Outputs setpoint setting

Output	Value ON	Value OFF
2	400 kg	
3	400 kg	

Esc

6. Set the activation (and deactivation) value.

Outputs setpoint setting

Activation value of Output 2   F

0

0 ~ 1000

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

Esc

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.

Printing, weighing, relay activation, etc.

WEIGHBRIDGE

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.
ACIVATION	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.

DINI ARGEO
Scales - Weighing systems

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.

For 3 seconds

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

1.

2.

3.

After 3 seconds

Setting 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

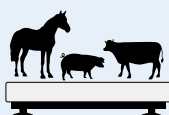"HR" type filter

Suspended and oscillating load weighing

"DYN" type filter

Metering, filling, level check and overloads

Auto   Manual

"DOS" type filter

Weighing live animals

"HOLD" type filter

Special weighing applications

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

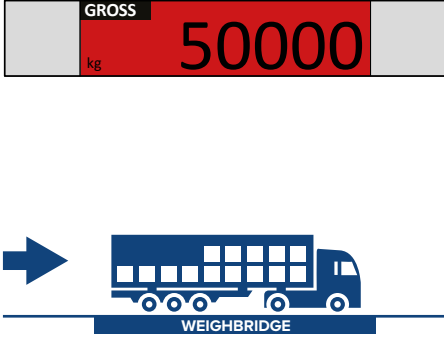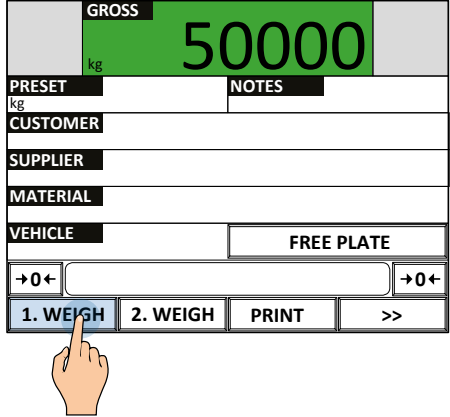### Liquid weighing, weighbridges and weighing with vibrations

"SLOW" type filter

Visual weight check in multiple colours

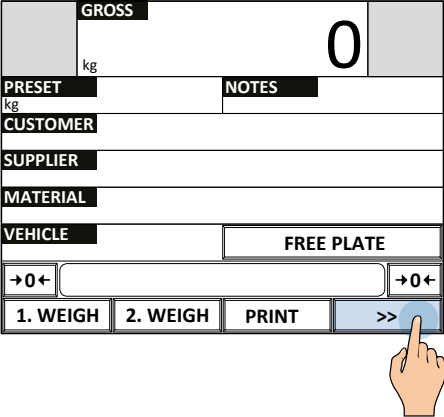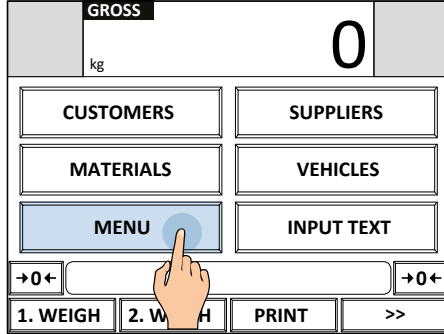| USE	Allows you to signal whether the weighbridge is free or occupied and if weighing was performed successfully.
APPLICATIONS	Self service working modes.
ACTIVATION	Standard active function.

Example of weigh

1.

GROSS
kg
0

WEIGHBRIDGE

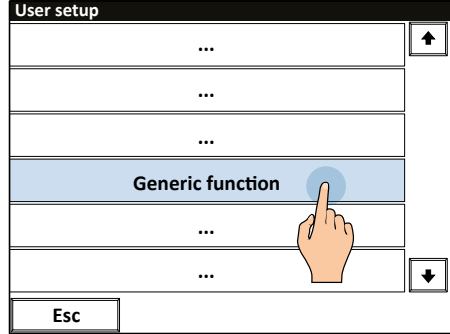2. The display turns red to indicate that the weighbridge is occupied.

GROSS
kg
50000

WEIGHBRIDGE

3. If the weighing was performed properly the display lights up green.

GROSS
kg
50000

PRESET   NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

How to activate/deactivate the function

1.

GROSS
kg
0

PRESET   NOTES
kg
CUSTOMER
SUPPLIER
MATERIAL
VEHICLE   FREE PLATE
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

2.

GROSS
kg
0

CUSTOMERS | SUPPLIERS
MATERIALS | VEHICLES
MENU | INPUT TEXT
→0←   →0←
1. WEIGH | 2. WEIGH | PRINT | >>

3.

User setup
...
...
...
Generic function
...
...
Esc

4.

User setup
...
...
...
Cross light (3 colors) function
...
...
Esc

5.

Cross light (3 colors) function
○ Disabled
◉ Enabled

Cancel   OK

i This procedure also enables the three-colour light device, if any.

DINI ARGEO
Scales - Weighing systems

How to set the threshold below which the weighbridge is free

1.

GROSS	
kg	0

CUSTOMERS	SUPPLIERS
MATERIALS	VEHICLES
MENU	INPUT TEXT

→0← | →0←
1. WEIGH | 2. WEIGH | PRINT | >>

2.

User setup

...
...
...
Generic functions
...
...

Esc

3.

Generic function

...
...
...
Outputs setpoint function
...
...
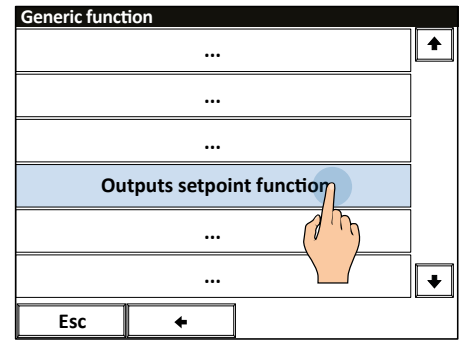
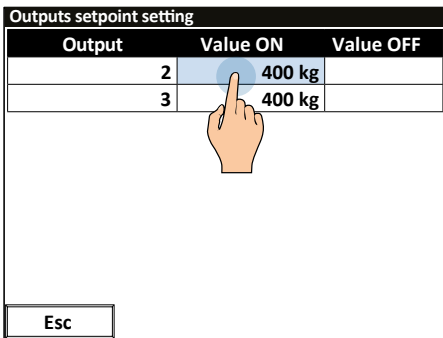Esc | ←

5. Enter the threshold and press OK to confirm

4.

Outputs setpoint setting

Output	Value ON	Value OFF
2	400 kg	
3	400 kg	

Esc

Outputs setpoint setting

Activation value of Output 2   F

400

0   ~   1000

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	OK

Esc

i The "Output 2" threshold is automatically also copied in "Output 3".

1.

GROSS		W1 ▬
16:00	kg	
TARE ▬		**LOT** ▬
kg		
GENERAL ▬		
N.		kg
PARTIAL ▬		
N.		kg
ARTICLE ▬		
CUSTOMER		

→0←		→T←
M+	M-	PRINT	>>

2.

GROSS		W1 ▬
16:00	kg	

ARTICLES	CUSTOMERS
WEIGHS LIST	SETPOINT
MENU	INPUT TEXTS

→0←		→T←
M+	M-	PRINT	>>

3.

User setup

...	↑
...	
...	
Diagnostic	
...	
...	↓
Esc	←

4.

Diagnostic

...	↑
...	
...	
Indicator information	
...	
...	↓
Esc	←

5.

EGT-AFxx-EN

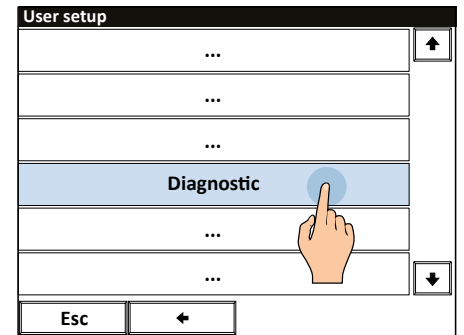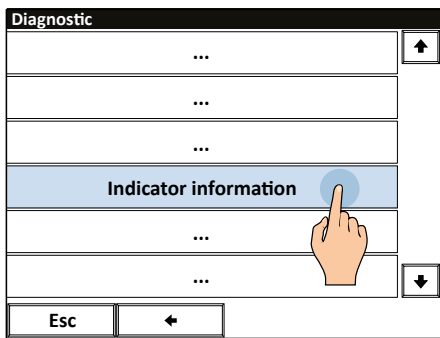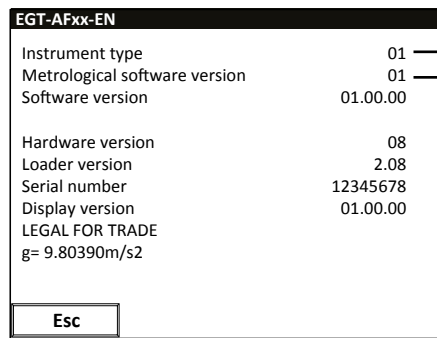| Instrument type	01
Metrological software version	01
Software version	01.00.00
Hardware version	08
Loader version	2.08
Serial number	12345678
Display version	01.00.00
LEGAL FOR TRADE	
g= 9.80390m/s2	

Esc	

Prefix: instrument model
Version: 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 on 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

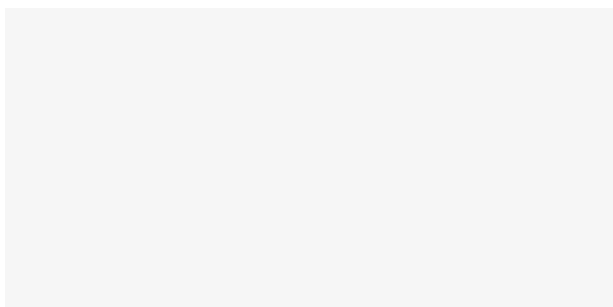**At switch-on, the scale displays the "reset in progress" message**

- 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

Notes

DINI ARGEO
Scales - Weighing systems

Authorised service centre stamp

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