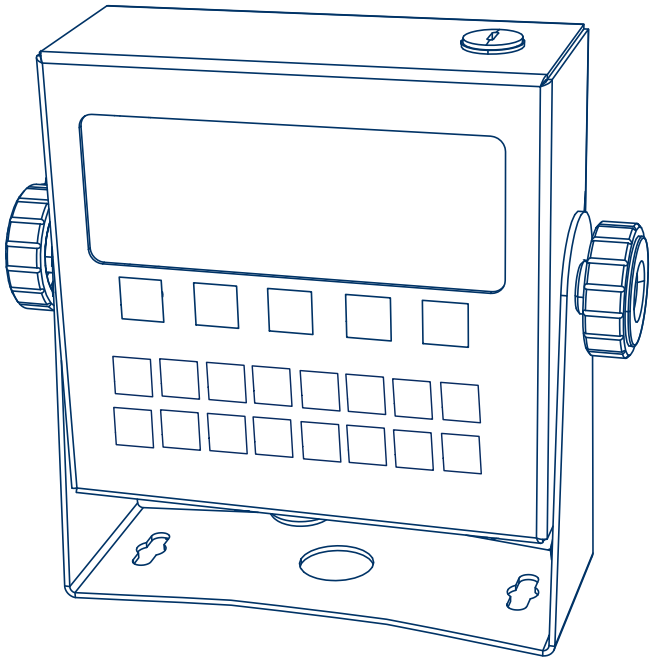
DINI ARGEO
Scales - Weighing systems

DFWX SERIES

USER MANUAL ENGLISH



www.diniargeo.com

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Dini Argeo is a Rice Lake Weighing Systems Company.

INTRODUCTION

The purpose of this manual is to familiarise the user with the different operating modes, key functions and display annunciators.

Carefully follow the instructions when configuring the instrument, as to do otherwise could jeopardise proper scale operation.
In addition to conventional scale features, the instrument offers extra user features such as converting the units of measurement converting net weight/gross weight, gross weight or net weight setpoint, approved weight transmission to PC with alibi memory, +/- check weighing, sample weight percentage, weighing accumulator, piece counting. These features make it suitable both for industrial use as well as for legal use with third parties and in trade, meeting the most up to date needs for transmission and data printing via bidirectional serial ports.

This manual was written with the utmost care but we always welcome feedback on any inaccuracies you may find.

Manuals are available for download from www.diniargeo.com. For more information about the DFWX, see the DFWX Technical manuals.

WARNING

For more warranty information see www.diniargeo.com. Any attempt to repair or modify the unit could expose the user to the risk of electrical shock and will render all warranty conditions null.
All problems with the unit or the system must be communicated to the manufacturer or the dealer where which it was purchased.
The instrument is insulated between the dangerous voltage area and the parts that are accessible to the user.

- Disconnect power before opening the instrument.
- Do not expose the instrument to direct sunlight or sources of heat.
- Set or secure the indicator and the platform on a base with no vibrations.
- All the indicator connections must be made respecting the applicable standards in the installation area and environment.
- **Do not install in environments with the risk of explosion.**

Whatever is not explicitly described in this manual is to be considered improper use of the equipment.

Product Disposal:

The crossed out wheelie bin symbol on the product shows that it must be brought to appropriate separate waste collection centres at the end of its life cycle or returned to the dealer when purchasing a new equivalent product. Proper separate collection to then send the product to recycling contributes to preventing possible negative effects on the environment and to health and promotes recycling. Users who dispose of the product illegally shall face administrative sanctions as provided for by law.

Battery Disposal:
Dispose of batteries at appropriate waste collection centers at the end of their life cycle in accordance with local laws and regulations. Batteries and rechargeable batteries may contain harmful substances that should not be disposed of in household waste. Batteries may contain harmful substances including but not limited to: cadmium (Cd), lithium (Li), mercury (Hg) or lead (Pb). Users who dispose of batteries illegally shall face administrative sanctions as provided by law.
WARNING: Risk of fire and explosion. Do not burn, crush, disassemble or short-circuit lithium batteries.

Important: All included batteries included intended for sale in the EU market are classified as "Portable Batteries for General Use" and comply with European Battery Regulation (EU) 2023/1542.

CLEANING

Cleaning the instrument may need to occur depending on the installation environment.

NOTE: The DFWX is IP68 and IP69K certified and compatible with most wash down environments.

To clean the instrument:

1. Power off the indicator and unplug the power cable.
2. Use soft cleaning cloth or brush to wipe away large debris.
3. Clean the indicator with mild detergent and a soft cloth.

Warning:

- **Do not use solvents, alcohol-based or harsh chemical cleaners.**
- **Do not use abrasive brushes (for example, steel pads, wire brushes, scrapers)**
- **Ensure the plugs are in cable glands grips that re not used.**
- **When cleaning perform the following:**
  - **Disconnect power cable from outlet and protect plug.**
  - **Tighten all cable glands and ensure plugs are installed in cable glands grips that re not used.**

INSTALLATION

INSTALLATION

See DFWX Technical manual for wiring and installation information.

NOTE: Direct sunlight may damage the DFWX display, ensure the instrument avoids direct sunlight.

POWER SUPPLY VIA MAINS

Every DFWX range indicator is equipped with a specific power cable. The safety standards must be respected when connecting the unit to the 110/240V mains, including the use of a “clean” line with no disturbances or interferences caused by other electronic equipment. If there is an internal rechargeable battery, it is charged automatically.

POWER SUPPLY VIA BATTERY

Batteries are included with select DFWX models (see DFWX Technical manual)

Internal battery charge level indicator


Charged battery


Low battery

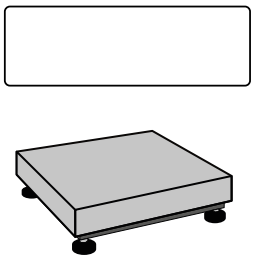
The LoW.bAtt message precedes automatic instrument switching off.

Battery charging indicator

NOTE:
Recharge the battery when the indicator displays 1 segement.
The battery recharges in approximately 5 hours.
The battery charging indicator only displays if the indicator is powered on.
if the indicator will not be used, recharge the battery once every three months.

POWER ON

1



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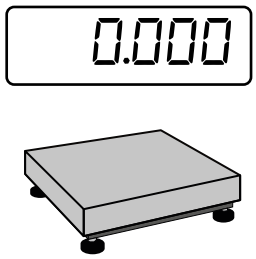
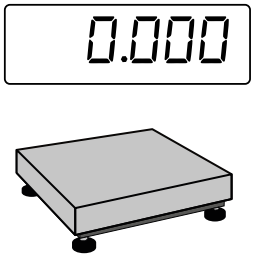


NOTE: A DIP switch configuration can cause the DFWX to automatically turn on when it receives power. This configuration is typically used in customer applications that control the flow of power to the instrument with the mains circuit breaker. In such cases, power on the instrument at the circuit breaker or equivalent.

POWER OFF

1



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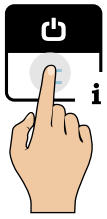

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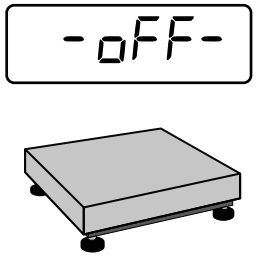


NOTE: A DIP switch configuration will cause the DFWX to automatically power on when it receives power. This configuration is typically used in customer applications that control the flow of power to the instrument with the mains circuit breaker. In such cases, power off the instrument from the circuit breaker or equivalent.

SAVING BATTERY POWER

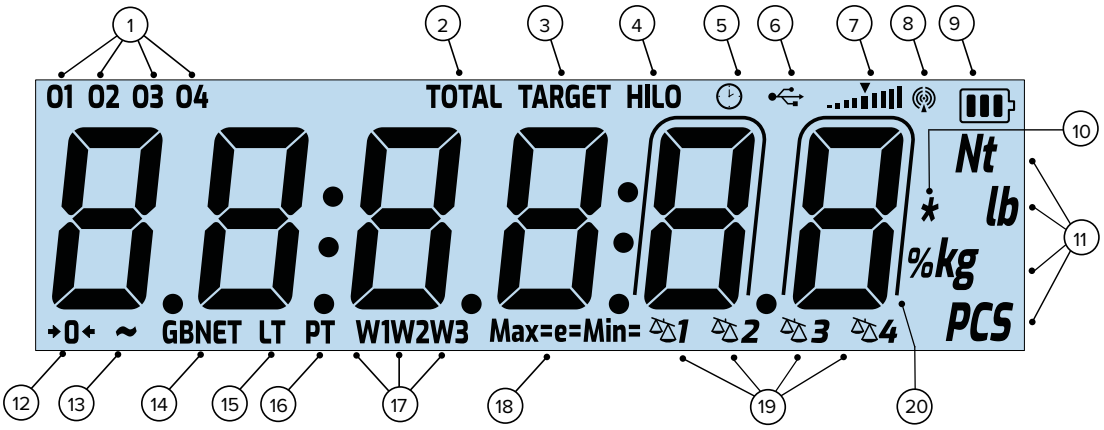
The instrument is equipped with battery power saving functions designed to increase operating time (see En.SAVE on page 89).

AUTOMATIC POWER OFF

This function activates when the scale is completely unloaded and has not been used for a set amount of time *(default 5 minutes)*. For more information about the AutoFF confiugration, see page 91.

DISPLAY AND KEYBOARD

DISPLAY



NUMBER	SYMBOL	DESCRIPTION
1	01 02 03 04	Displays the active digital output.
2	TOTAL	Indicates that Totalization mode is active and at least one weight is included.
3	TARGET	When Check Weigh mode is active, the target is configured and stored in memory.
4	HILO	HI = When the Check Weigh mode is active, the high threshold is configured. LO = When the Check Weigh mode is active, the low threshold is configured.
5		Active during the configuration of the date and time.
6		Active when a USB connection is active.
7		A dynamic display of target status when check weighing mode is active, where: = Measured objects are below target. = Measured objects are close to target and most likely in lower tolerance range (if configured). = Measured objects are at target. = Measured objects are close to target and most likely in upper tolerance range (if configured). = Measured objects passed target.
8		Displays whens WiFi or Bluetooth is connected.
9		Displays the current battery level. =Battery is Full =Battery has 2/3 capacity = Battery has 1/3 capacity =Battery is low and needs to be charged.
10	*	Displays when a key is pressed. In some operating modes, it indicates that a specific function is active.

NUMBER	SYMBOL	DESCRIPTION
11	Nt PCS	Represents a unit of measurement: N = N (newton) t = T (tonnes) lb = lb (pounds) % = Percent (threshold) kg = kg (kilograms) PCS = Pieces
12	→0←	The scale is unloaded and at zero (gross).
13	~	The weight is unstable.
14	GBNET	GB = The weight displayed is Gross/Brutto/Brut NET = The weight displayed is net. There is a saved tare.
15	LT	A locked tare is active. *NOTE: Not visible when set to Unlocked (14 + F).*
16	PT	A preset tare (manual tare) is active (F + TARE).
17	W1 W2 W3	Displays the active range of weighing.
18	Max= Min= e=	Max= Maximum Capacity Min= Maximum Capacity e= Divisions
19	1 ··· 4	Displays which scale is active.
20		The weight is displayed in high resolution.

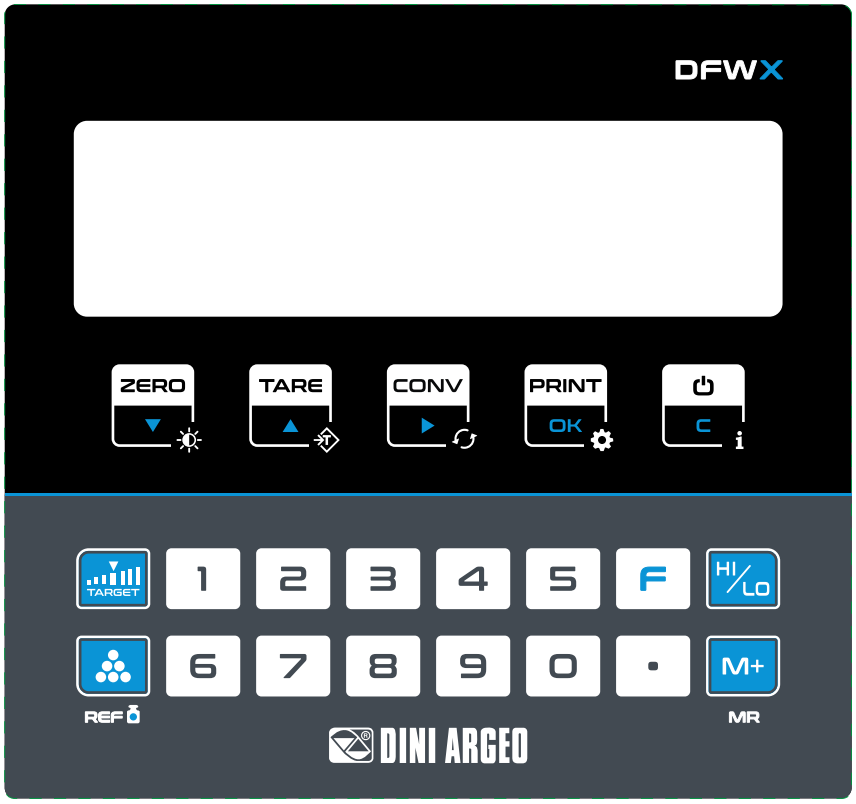
LETTERS:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A	b	C	d	E	F	G	h	ı	J	K	L	n	n	o	P	q	r	S	t	u	U	W	H	y	2

NUMBERS:

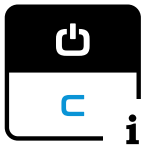
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

KEYPAD



Operation Keys

KEY	DESCRIPTION
	Short Press: Resets the weight on the scale. Parameter/Menu: Navigates down in menus, parameters or parameter values. = **F** + **ZERO** = Sets the indicator brightness (see page **89**)
	Short Press: Manually adds a tare to the scale from the currently weighed object. When a tare is active, the NET annunciator appears on the screen. Parameter/Menu: Navigates up in menus, parameters or parameter values. = **F** + **TARE** = Sets the preset tare (see page **26**)
	Short Press: Converts weighed value to configured unit of measure. Parameter/Menu: Navigates right in numeric fields. = **F** + **CONV** = Sets conversion (see page **44**)
	Short Press: Activates print function. Parameter/Menu: • Confirms the selected menu/parameter. • At save prompt, confirms saving. = **F** + **OK** = Opens indicator configuration (see page **78**)

KEY	DESCRIPTION
	Short Press: Clears tare Long Press: • Press for 2 seconds to power indicator off or on. Parameter/Menu: • Returns to previous menu without saving. • At save prompt, cancels without saving. **i** = **F** + **C** = Opens indicator information (see page **76**)

Function and Number Keys

KEY	DESCRIPTION
	Target Key Short Press: Configures the target for check weighing mode. *NOTE: Typically used with Check Weighing and Counting Modes*
	Sample Key Short Press: Configures the quantity of sample pieces being weighed and calculates the average piece weight. Long Press for three seconds to open the average piece weight configuration. *NOTE: Typically used with Counting and Check Weighing Modes.*
	High / Low Thresholds Key Short Press: Configures high and low tolerances. *NOTE: Typically used with Check Weighing and Counting Modes*
	Totalization Key Short press: Adds current weight to totalization sum. Long Press for five seconds to execute Memory Recall and display the totalization sum. *NOTE: Typically used with Totalization mode.*
	Function Key Short Press: Used in combination with other keys to launch a variety of functions or shortcuts quickly). Long press for 10 seconds to enable or disabled the Function key.
	Numeric Keys Short Press: Inserts numerical character.
	Full Stop/Period Key Short Press: inserts decimal place.

REMOTE CONTROL

The instrument can be equipped with a radio frequency remote control.
The remote control can be configured with single function (rF- 1) or multi-function keys (rF-6).

NOTE: See DFWX Technical Manual for rEMotE parameter information.

Remote control modes

KEYS	SINGLE FUNCTION MODE (rF- 1)	MULTI-FUNCTION MODE (rF-6)	
		SHORT	LONG
ZERO	TARE	Zero	-
TARE		Tare	Manual tare (PT)
MODE		Operating mode	-
PRINT		Print	-
C		Cancel/Delete	Stand-by/Switch-on
FN		See FN Remote Shortcuts table below	10 seconds Enables/ Disables shortcuts

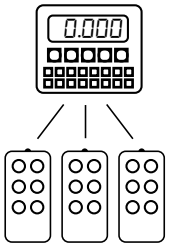
FN Remote Shortcuts

The following are shortcuts accessed using the FN button and other buttons on the remote.

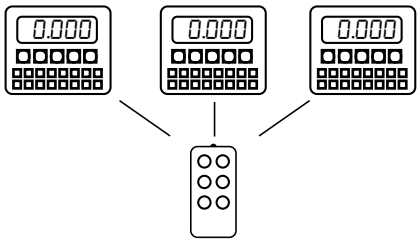
KEYS	FN Shortcuts (rF-6)
ZERO	FN + ZERO = Sets the indicator brightness (see page **89**)
TARE	FN + TARE = Sets the preset tare (see page **26**)
MODE	FN + MODE = Sets conversion (see page **44**)
PRINT	FN + PRINT = Opens indicator configuration (see page **78**)
C	FN + C = Opens indicator information (see page **76**)

Additional radio frequency remote control configurations

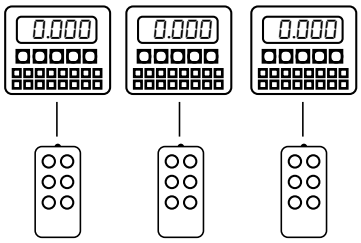
Multi-remote control
Useful when several operators are using the same scale (up to 3).



Broadcast
Useful when you need to command several scales with the same remote control.



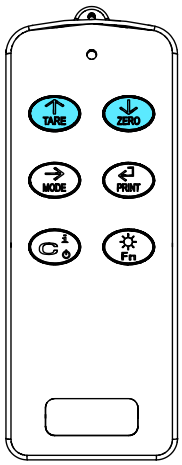
Ad hoc
Useful when there are several scales installed in the same area, each managed by its own remote control.



The remote control requires advanced configuration.

Remote Contol pairing

1. On the remote control, press TARE and ZERO keys simultaneously for 3 seconds to enter pairing mode.
2. The instrument displays Aut .rdP
3. Press the ENTER key on indicator and the remote control pairs.
4. Press the C key (on indicator), to remove the remote control.



Remote Control Battery Replacement

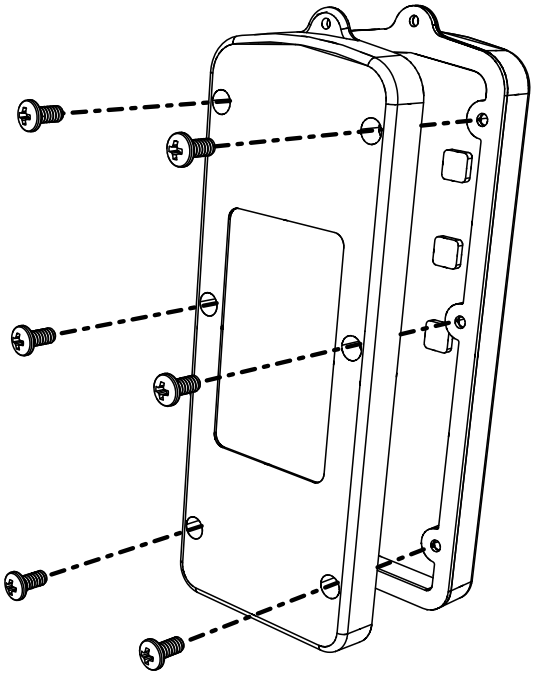
Battery Disposal:
Dispose of batteries at appropriate waste collection centers at the end of their life cycle in accordance with local laws and regulations. Batteries and rechargeable batteries may contain harmful substances that should not be disposed of in household waste. Batteries may contain harmful substances including but not limited to: cadmium (Cd), lithium (Li), mercury (Hg) or lead (Pb). Users who dispose of batteries illegally shall face administrative sanctions as provided by law.
WARNING: Risk of fire and explosion. Do not burn, crush, disassemble or short-circuit batteries.

Important: All included batteries included intended for sale in the EU market are classified as "Portable Batteries for General Use" and comply with European Battery Regulation (EU) 2023/1542.

The remote control contains a 3V CR2032 battery that may require replacement over time.

Tools needed:
- Phillips screwdriver

1. Remove 6 screws from the back of the remote control.



2. Detach the two halves of the enclosure.
3. Remove the keypad insert with PCB from the remote control enclosure.
4. Pull the keypad away from the PCB to expose the battery.
5. Slide the 3V CR2032 battery out and replace with a new battery. Ensure to maintain polarity; “+” on the battery faces away from PCB.
6. Reverse the procedure to reinstall components into the enclosure.

WEIGHING FUNCTIONS

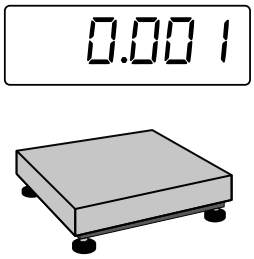
ZERO

The Zero key is one of the most frequently used indicator keys. It manually resets the current stable weight to a maximum of ± 2% of total scale capacity (by default). The maximum percentage may be increased for scales that are not legal for trade in the Technical menu (see 0.PErC parameter in the DFWX Technical Manual).

Zero Scale

Sets the current gross weight to zero, provided the amount of weight to be removed or added is within the specified zero range and the scale is not in motion.

1



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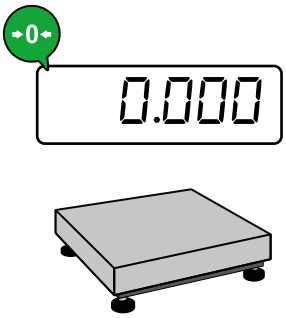


Automatic Zero During Scale Initialization

The indicator has an automatic function that zeros the scale upon initialization to ensure the correct empty scale weighment after the scale is turned on.

Not Approved scale (Not legal for trade)

- At initialization a stable weight is within ± 10% of the total scale capacity is detected and then zeroed.
- If the weight is not within ± 10% of the total scale capacity or unstable, indicator attempts zeroing for several seconds. Display shows the current weight alternating with the message “Zero”. If zeroing can not be performed, the indicator displays the current weight.

Approved scale (Legal for trade)

- At start-up a weight within ± 10% of the capacity and stable is detected, it will be zeroed.
- If the weight is not within this tolerance or unstable, display shows the real time weight alternating the message “Zero” until the zeroing conditions are not detected.

NOTE: See on.2Ero parameter in the DFWX Technical Manual for more information.

Zero Tracking Function

The indicator has a Zero Tracking function that resets unexpected zero micro-variations due to temperature changes, residue on the platform, etc.

Zero tracking works on approved (legal for trade) and internal use (not legal for trade) configurations. Zero tracking resets micro weight-variations within half a scale division, stable for at least one second.

NOTE: See 0.trh parameter in the DFWX Technical Manual for more information.

TARE

Available Tare Functions

The instrument provides various tare functions:
• “Locked” tare (standard factory configuration).
• “Unlocked” tare: automatically deleted every time the scale is unloaded. Useful in preventing errors when the tare is different for every weighment.
• Tare acquired automatically by the scale. Tare is only acquired if there is no other saved tare value.
• Tare function disabled.

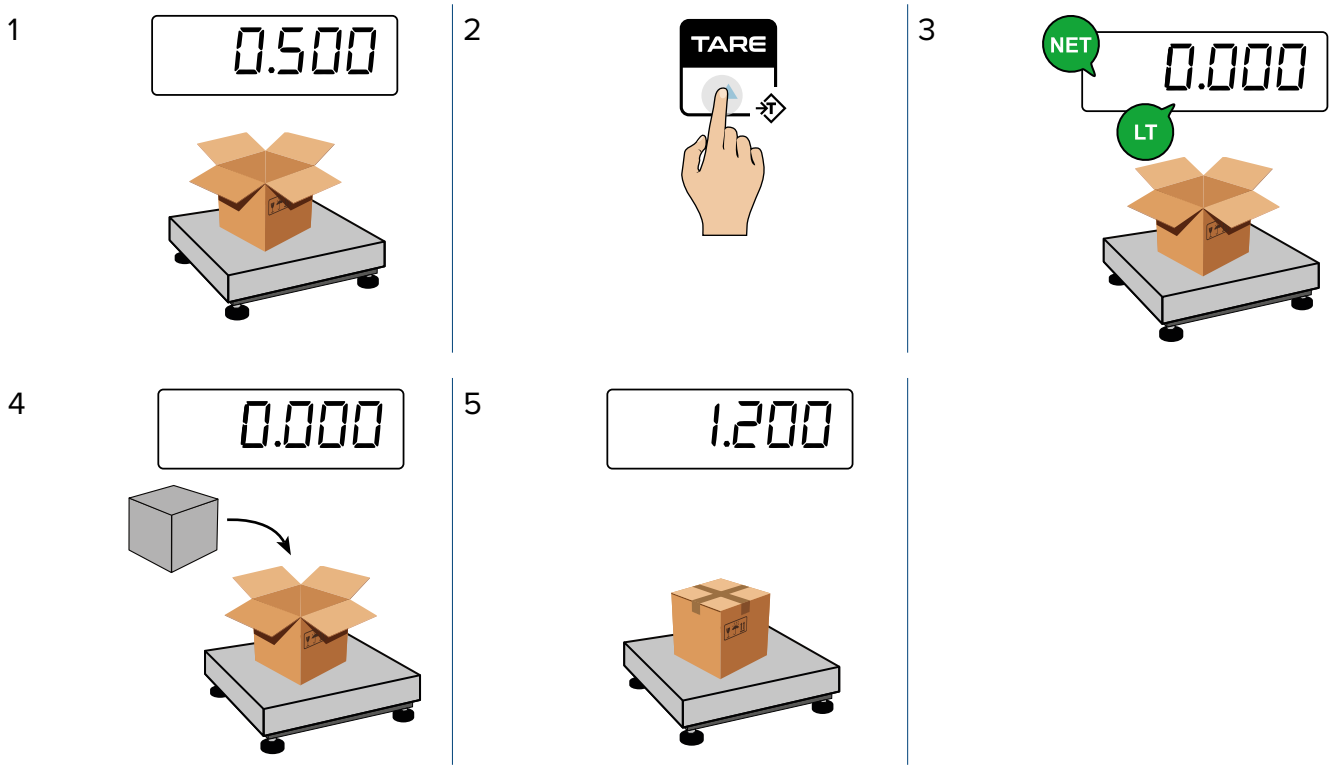
To customize the tare function, enter the tArE section in the configuration menu (see page 92 and 93) or through shortcuts.

Tare Requirements

• Semiautomatic tare can only be performed if the weight is stable
• A tare can only be performed with positive weight.
• If the indicator is legal for trade and tare has been disabled (**14 + F** = oFF) it is not possible to set LoCk/unLoCk (see page **30**).
• Tare is possible on for the entire scale range (0 through full scale capacity)

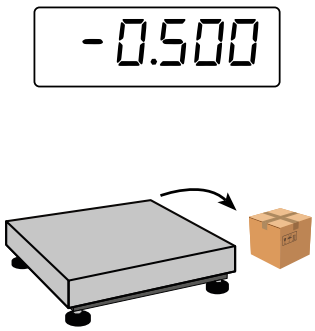
Semiautomatic Tare

The semiautomatic tare performs a tare with a value of the weight on the scale.



Tare/Preset Tare Deletion

1



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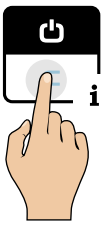

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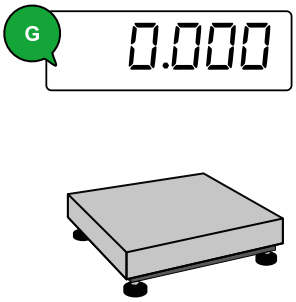


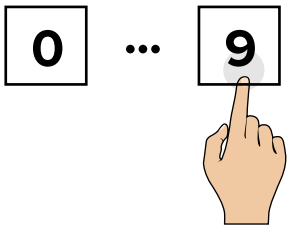
NOTE: The tare can also be removed with an unlocked tare. Remove all the weight from the scale, gross weight = 0 (see page **30***).*
If the automatic tare is active and a weight is on the scale, the scale must be unloaded before cancelling the tare (see page **30***).*

Preset Tare

The preset tare inserts a user configured numeric weight value as the tare.

Set Preset Tare with Keys

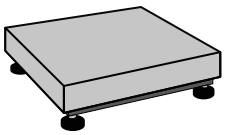
1 Enter tare value



2

Set Preset Tare with Shortcut

1



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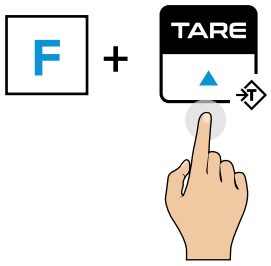

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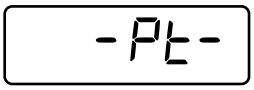

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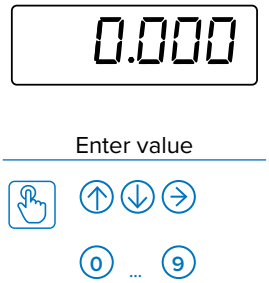

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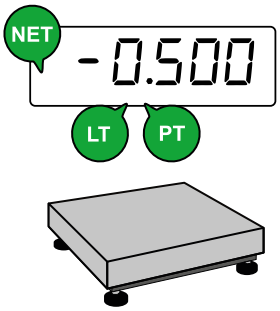

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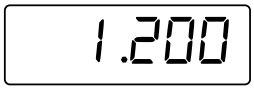
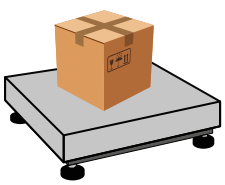
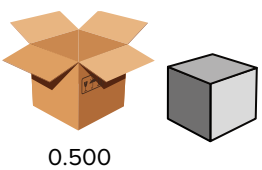






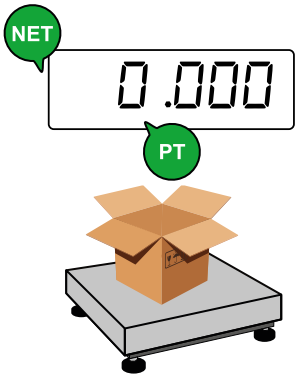
0.500 kg

1.200 kg

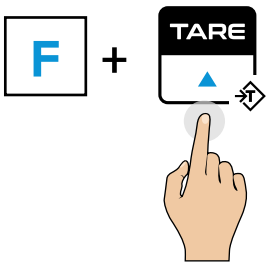
Cancel Preset Tare

Cancel a preset tare by pressing ⊏ or by changing the preset value to 0. The example below demonstrates how to change the preset tare value to 0 by pressing ⊏.

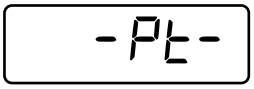
1



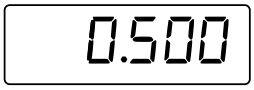
2



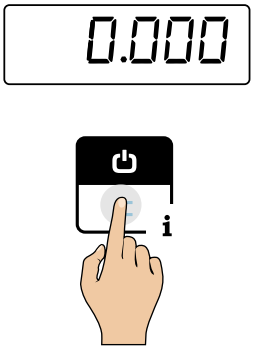
3



4

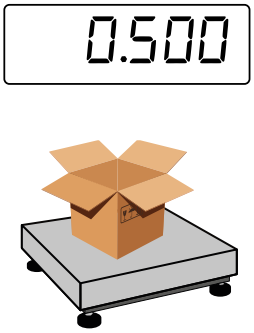


5



6

7



30 Tare Archive

Saves up to 30 tares and provides quick retrieval.

Example:

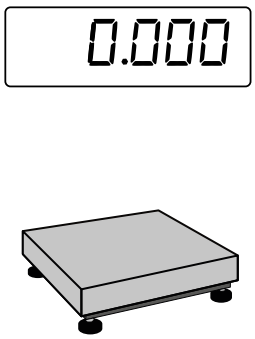
10,0 kg

12,0 kg

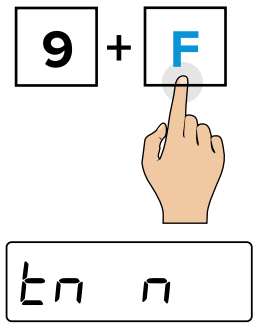
15,0 kg

How to save a tare

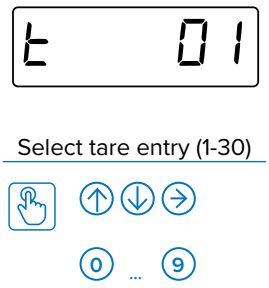
1



2

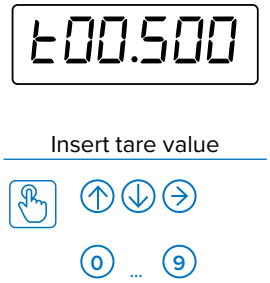


3



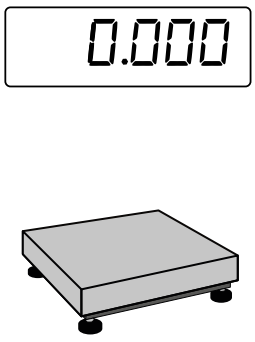
4

5



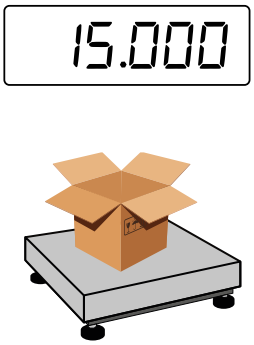
6

7

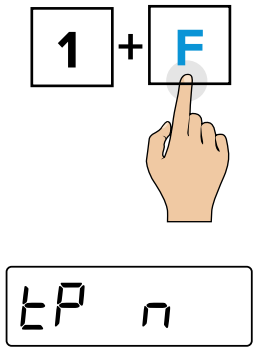


How to Retrieve a Saved Tare

1



2

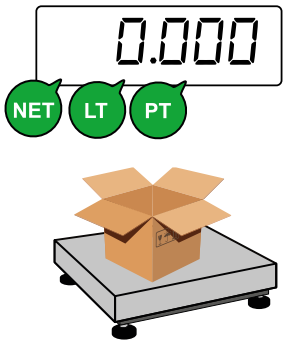


3

Select Memory Entry

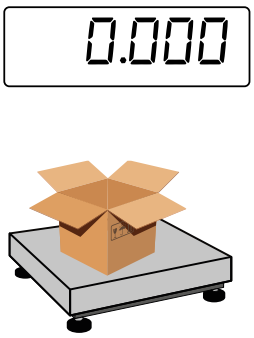
4

5

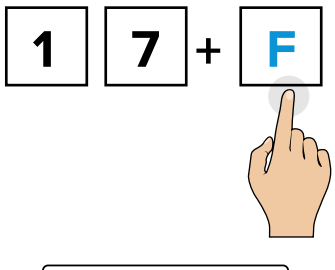


How to Enable or Disable the Tare Archive

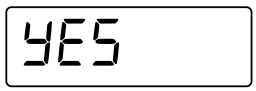
1



2



3

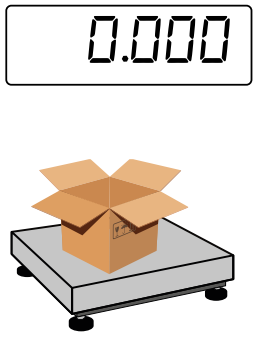


Set the parameter

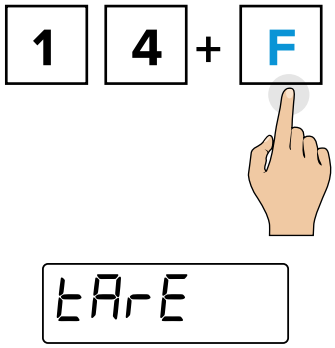
YES = Tare archive enabled.
no = Tare archive disabled.

Automatic Tare Deletion

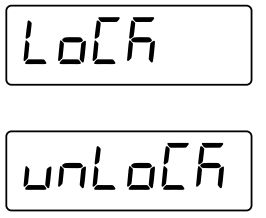
1



2



3

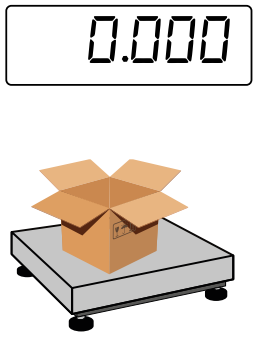


Set the parameter

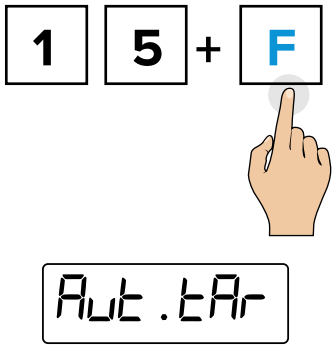
LoCA = Automatic deletion disabled
unLoCA = Automatic deletion enabled: the tare will be deleted automatically when unloaded

Automatic Tare

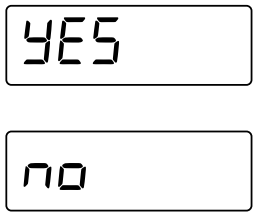
1



2



3



Set the parameter

Aut.tAr = The tare automatically activates when the gross weight is 0 and then weight is placed on the scale.

NOTE:

1. *After an automatic tare occurs, semi-automatic tare are then available*
2. *When automatic tare is enabled, cancelling the tare is prohibited*

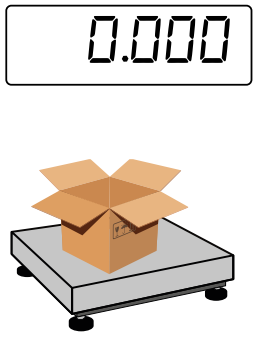
Tare Unlock and Automatic Tare can be used together to have the tare activated and cancelled just adding / removing weight on the scale. For example:

1. *Put empty container on the scale, it will be automatically tared*
2. *Load weight into the container and read the weight (*)*
3. *Remove the full container from the scale, the tare will be automatically cancelled*

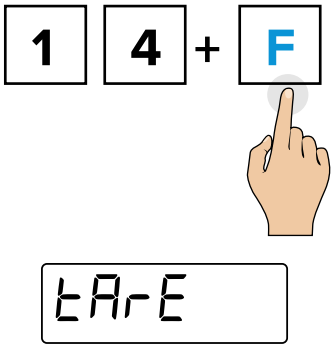
(*) Meanwhile, it is possible to perform other operations (for example totalization)

Disable Tare

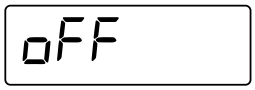
1



2



3



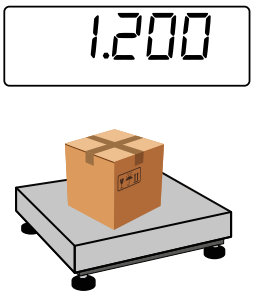
Set the parameter

oFF = All tare functions disabled

PRINTING

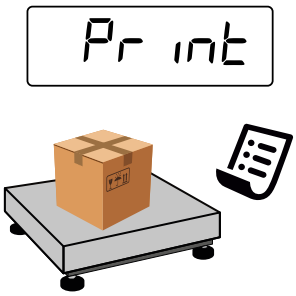
Printout

1



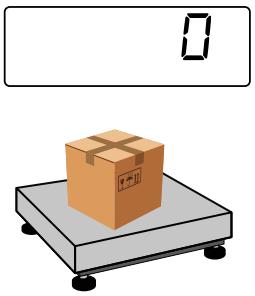
2

3

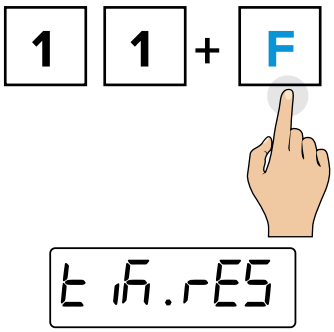


Reset Ticket Progressive

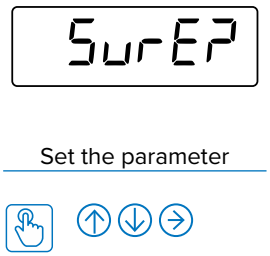
1



2



3



4

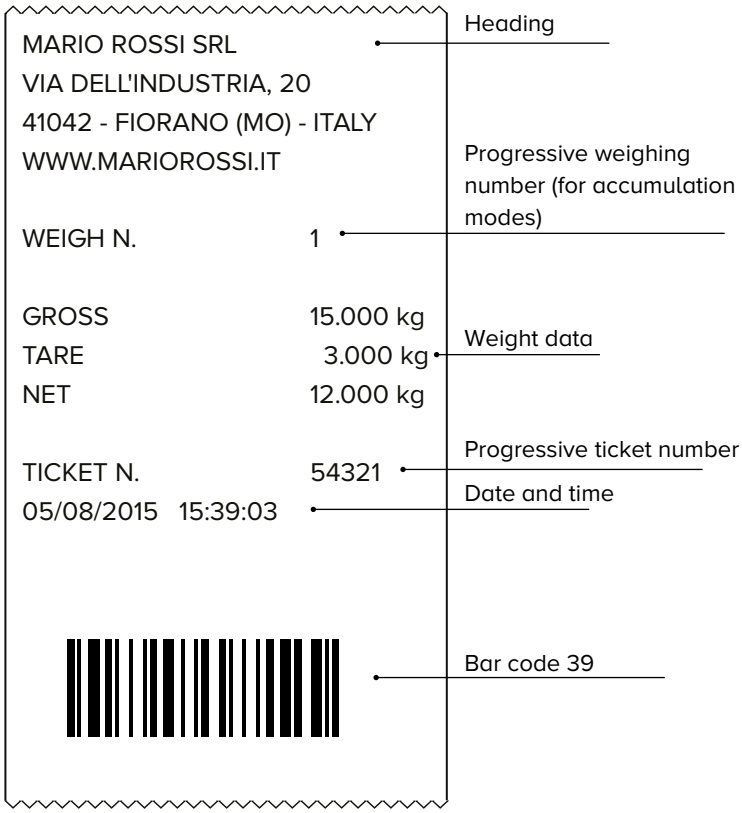
NOTE: When totalizing a weight automatically or by pressing **M+**, *the indicator automatically prints the ticket (see* **53***). In addition, the totalization total prints when* **M+** *is held for 2 seconds and the print command is executed (see page* **55***). The totalization ticket varies from a customized printout.*

Customisable Printouts

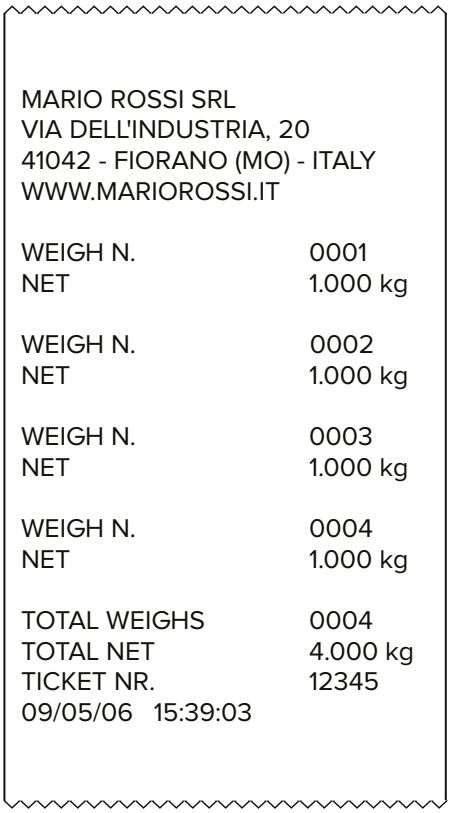
If the instrument is equipped with a printer, the ticket or label can be customised as shown in the following example.

Customising printouts requires advanced configuration.

Example of ticket/label



Example of packing list



Customized printout rules:

- If Reactivation is configured as ZEro (see page **93**), the measured weight must return to zero before the indicator is able to print.
- If Reactivation is configured as inSt (see page **93**), the measured weight must be different from the configured number of division before the indicator is able to print.
- The quantity of totals before the totalization counter resets to 1 is configured in MAH.tot parameter (see page **85**).

NOTE: The quantity of printout copies for a single ticket is set with the CoP iES parameter in the LAYout menu (see the DFWX Technical Manual for more information).

HIGH RESOLUTION (10 + F)

When x10 mode is enabled, the scale display shows the weight with 10 times (x10) the resolution. For example, If a scale is calibrated as 3000g\1g, the increased resolution (x10) function changes the resolution to 3000g\ 0.1g.

When increased resolution (x10) is enabled, the back light illuminates purple.

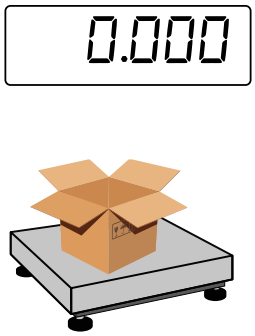
Increased resolution (x10) remains enabled when the scale is power cycled.
When increased resolution (x10) is enabled, all functions except ZERO, TARE and PT are deactivated.
To switch between increased resolution (x10) and standard resolution, press the **CONV** key.
If any function key is pressed, PrEc . 10 on a purple background displays.

When increased resolution (x10) is disabled, any function that was previously active is retrieved.

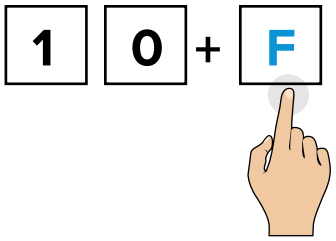
NOTE: If scale is approved (legal for trade):
- *Increased resolution (X10) stays for 5 seconds and then automatically disappears.*
- *Printouts are disabled*

Configure Increased Resolution

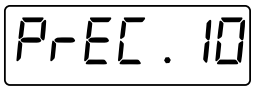
1



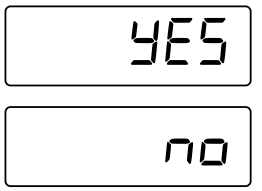
2



3



4



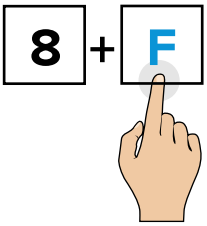
Set the parameter

5

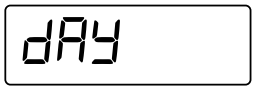
SETTING DATE AND TIME (8 + F)

1

2



3



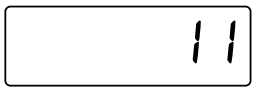
4

Set the parameter

5

6

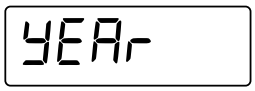
7



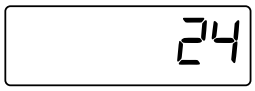
Set the parameter

8

9



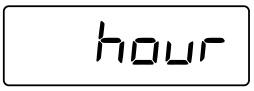
10



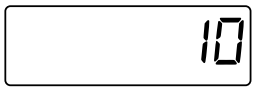
Set the parameter

11

12



13

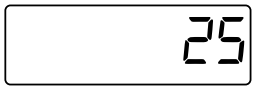


Set the parameter

14

15

16



Set the parameter

17

18

NOTE: This function requires a real-time clock (included with Alibi).
For information about setting the date and time, see page 94.

The format of the date and time varies depending on configuration in the Technical Menu. For more information, see the DFWX Technical Manual (tM.ForM and dt.ForM parameters).

ALIBI MEMORY

Alibi memory is an option card installed in the weight indicator that may be included as standard or optional depending on indicator model. In legal for trade applications, Alibi memory performs it main function, storing/tracing weighment data before sending it to a PC or Printer. When Alibi memory is installed, it automatically activates.

For each weighment registered, a unique ID code is assigned. Data stored for each weighment includes:

- Gross weight
- Tare weight
- Unit of measure
- Scale Number
- Traceability ID code

NOTE: For information about ALIBI parameters, see page 95.

Weighment Storage

A weighment is stored when either occurs:
- When the PID serial storage serial command is received.
- After the **M+** or **PRINT** buttons are pressed, the indicator prints or totalizes gross weight, tare, net weight, and unique weight ID code via serial connection to PC or printer.

```
ALIBI ID 00000-000037
WEIGHING NR.  0000014
GROSS         0.200 kg
TARE          0.000 kg
NET           0.200 kg
05/02/025 18:09:59
```

The storage of the weighment through the PID serial command is possible for all stable weights from 0 to full scale, with an approved instrument or unapproved instrument.

In case that these conditions are not observed:
- In response to the PID serial command “NO” displays instead of the ID.
- Transmission does not occur when **M+** or **PRINT** buttons are pressed.

For more information about the PID command, see the DFWX Serial Protocol Manual.

Weighment Reading

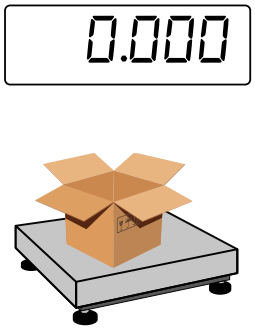
It is possible to read the weighments in the Configuration menu via the RL ıb ı parameter with the Alibi ID number. For information, see page **95**.

NUMERICAL IDS

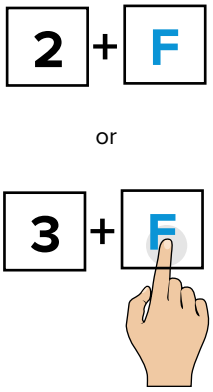
The instrument includes memory for 2 temporary registration numerical codes that can be used to identify the product, the operator, the lot etc. These codes, if entered, will be printed on the ticket.

How to Enter the ID

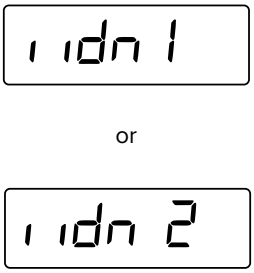
1



2



3



4

Enter the required ID
(up to 10 digits)

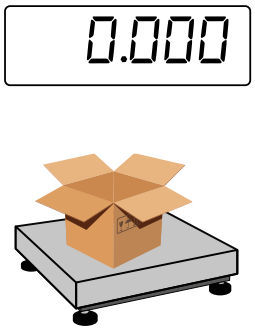
5

NOTE: The numerical IDs zero automatically when turning off the scale.

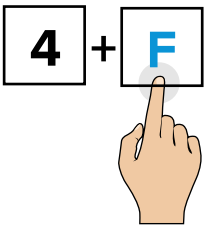
ALIBI ID 00000-000037
GROSS 0.200 kg
TARE 0.000 kg
NET 0.200 kg
ID1 121212
ID2 232323
05/02/025 18:09:59

How to Lock/Unlock the ID Prinout

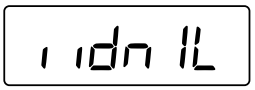
1



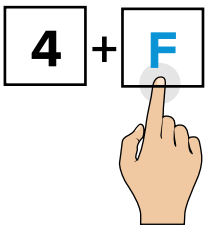
2



3



4



5

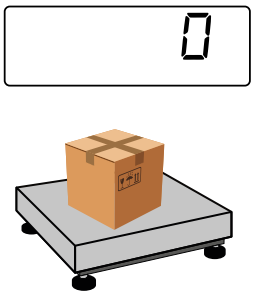
idn IL = *Locked ID Printout includes the ID number in the first and subsequent printouts*
idn Iu = *Unlocked ID Printout includes the ID number inf the first printout but removes the ID number from subsequent printouts*

SETPOINT CONFIGURATION

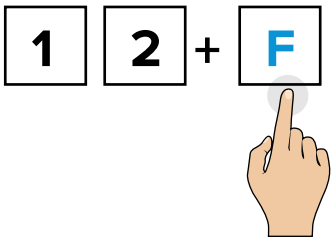
Up to 6 setpoints can be optionally set if the Digital Input and Output board is installed. Each setpoint has two states, setpoint on (S1.on - S6.on) and setpoint off (S1.oFF - S6.oFF). For more information, see page 96.
Setpoints cause an output to trigger when a certain weight is reached. For example, Setpoint 1 could be configured to turn on when the weight reaches 2 kg and turn off when it reaches 1 kg.

NOTE: The outputs must be set as either Gross or Net in order for the function to operate. For more information, see outPut ▶ rEL.b. *parameters in the Technical Manual.*

1

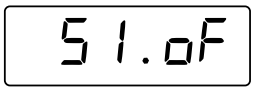


2



3

4

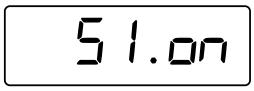


5

6

Enter the weight that turns off the setpoint

7



8

9

Enter the weight that turns on the setpoint

10 Repeat configuration for remaining setpoint.

AUTOMATIC POWER OFF

To preserve the battery charge, the automatic power-off function turns off the scale when not in use for a set amount of time. For more information about the AutoFF see *page* **91**.

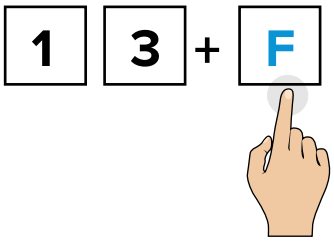
NOTE: Automatic power off adheres to the following rules:

- *Automatic power off only works when the indicator is battery powered. When a power cable is connected and the indicator is powered by mains, automatic power off is disabled.*
- *Automatic power off only works if the scale platform is empty and inactive.*
- *The automatic power on DIP Switch must be disabled (see DFWX Technical Manual for more information).*

How to Enable Automatic Power Off

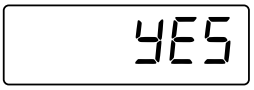
1

2



3

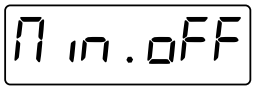
4



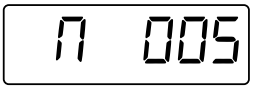
Set the parameter

5

6



7



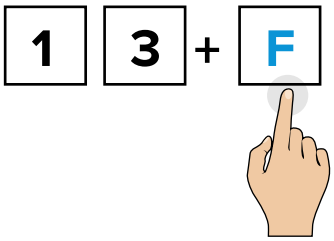
Set the quantity of inactive minutes to turn off the indicator

8

How to Disable Automatic Power Off

1

2



3

4

Set the parameter

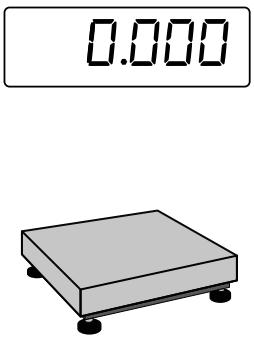
5

CONFIGURE BACKLIGHT

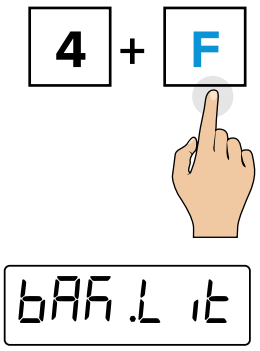
The indicator's backlight may be configured to determine when illumination occurs or its brightness. Depending on application it may be desirable to limit the frequency of activation or brightness when operating from the battery.

Backlight Activity Setup

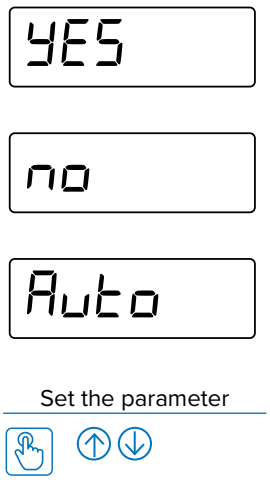
1 .



2 .



3 .

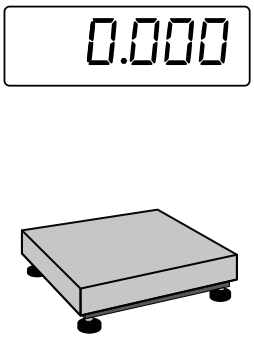


4 .

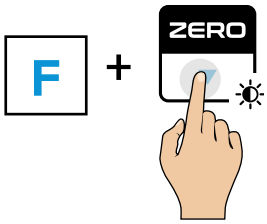
NOTE: For information about bAr.Lit *parameters, see page 89.*

Backlight Brightness

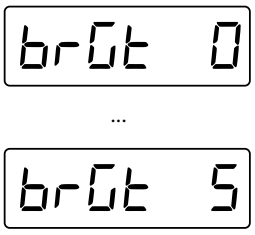
1 .



2 .



3 .



Set the parameter

4 .

NOTE: For information about br GE *parameters, see page 89.*

WEIGHT CONVERSION

INTRODUCTION

The conversion function converts the current weight to a configured weight.

Conversion Rules:

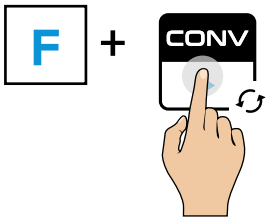
- The secondary unit is printed as follow:
  - lb ▶ lb
  - Newton ▶ N
  - Free factor ▶ 0.000
- If the indicator is legal for trade, the secondary unit (-b, N, *) is only shown for 5 seconds.
- If free factor = 1.00000, when **CONV** key is pressed, the icon of the primary unit blinks but no conversion is performed.
- If free factor = 0.00000, when **CONV** key is pressed, the display shows "Er.FACt".
- If Counting mode (PCS) is active, the **CONV** key switches between primary unit / net, secondary unit / gross, and PCS.

WEIGHT CONVERSION FUNCTION

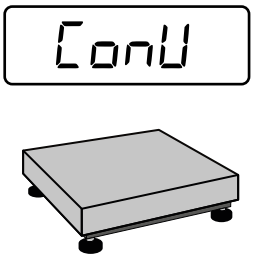
Configuration

1

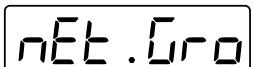
2



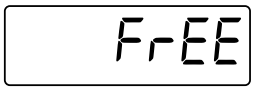
3



4



Net weight to Gross weight conversion



Converts to user defined custom unit

Converts to Newton

Converts to lb

Set the parameter

5

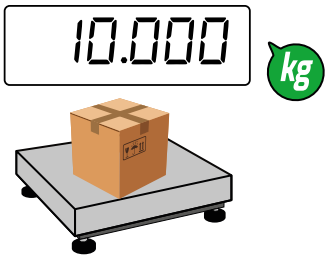
Conversion Parameter descriptions:

PARAMETER	DESCRIPTION
nEt.Gro	If tare is active, converts weight from net weight to gross weight . Press **CONV** to convert net weigh to gross weight. If a tare is active, display switches between Net weight and Gross Weight.
FrEE	Converts weight to a configured conversion value. Press **CONV** to convert weight by a conversion value. Long press the CONV key to insert the conversion factor. The conversion factor will be multiplied to the weight.
nEWton	Converts weight to Newton. Press **CONV** to convert the weight in Newton based on the Gravity value set (and vice versa). The N annunciator activates.
Lb	Converts weight to lb (pounds). Press **CONV** to convert the weight to lb (and vice versa). lb annunciator activates. ***NOTE: lb conversion is unavailable if the primary unit of the scale is lb.***

Operation

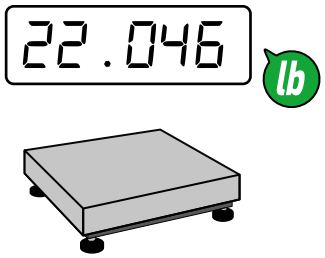
the following is an example of converting kg to lb:

1



2

3



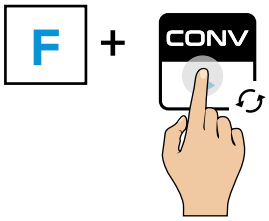
FREE WEIGHT CONVERSION

Configuration

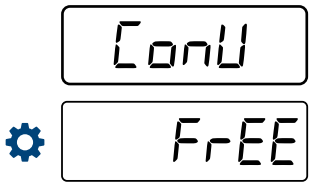
The free weight conversion factor is created by multiplying weight with configured value.

1

2



3

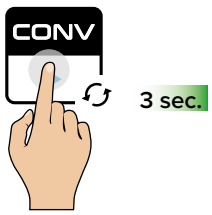


Set the parameter

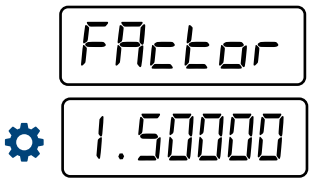
4

5

6



7



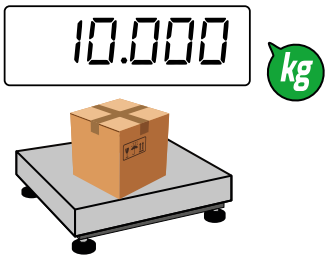
Set the converstion factor

8

9

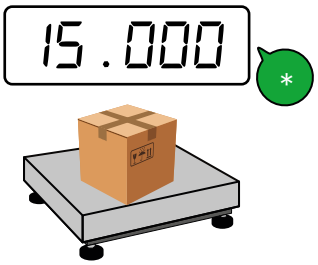
Operation

1



2

3



TOTALIZATION MODE

INTRODUCTION

This section describes totalization configuration and operation.
Totalization allows several weights to be added together and calculate a cumulative total. There are three types of totalization:

- Horizontal Loading totalization
- Horizontal Unloading Totalization
- Vertical Totalization / Formulation

It is possible to see the number of weighments and the temporary total at any time during processing. There are several different parameters that can be configured to change how totalization operates.

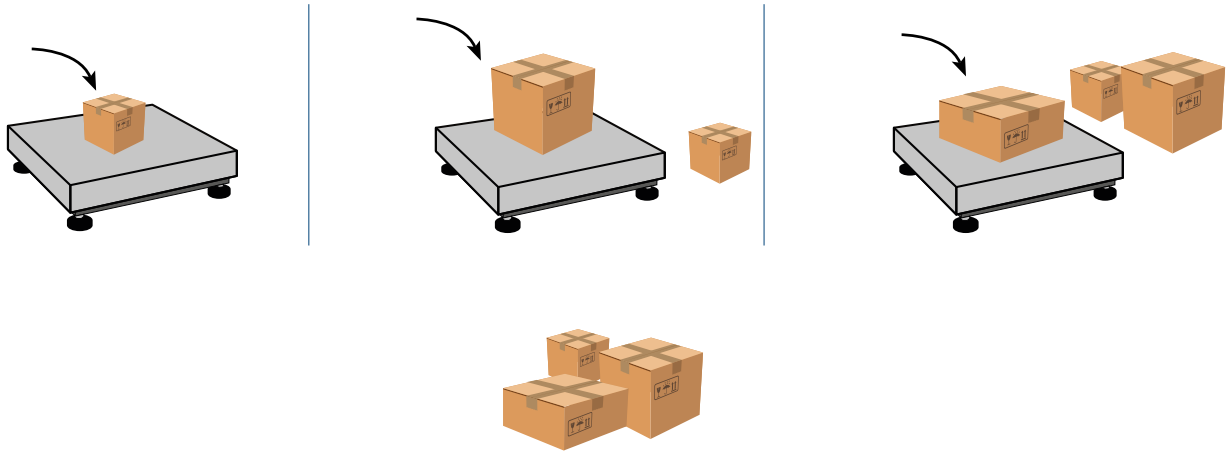
TOTALIZATION RULES

- After the first totalization the weight must be reactivated (see paragraph “Totalization reactivation”)
- It is not possible to totalize if the gross weight is ≤ 0
- It is not possible to totalize if the net weight is ≤ 0 (except for unloading totalization)
- It is not possible to totalize if the weight in unstable (~)
- If Counting or Conversion mode is active, the total is calculated in the primary unit of the scale (g / kg / lb / t)
- If the Albi memory is installed, the totalization also saves the weigh data in the alibi memory
- It the Check weighing mode is active, totalization is only possible if the weight is in tolerance

Horizontal Loading Totalization

The horizontal totalization consists of loading the object on the scale, executing totalization, and then unloading the object.

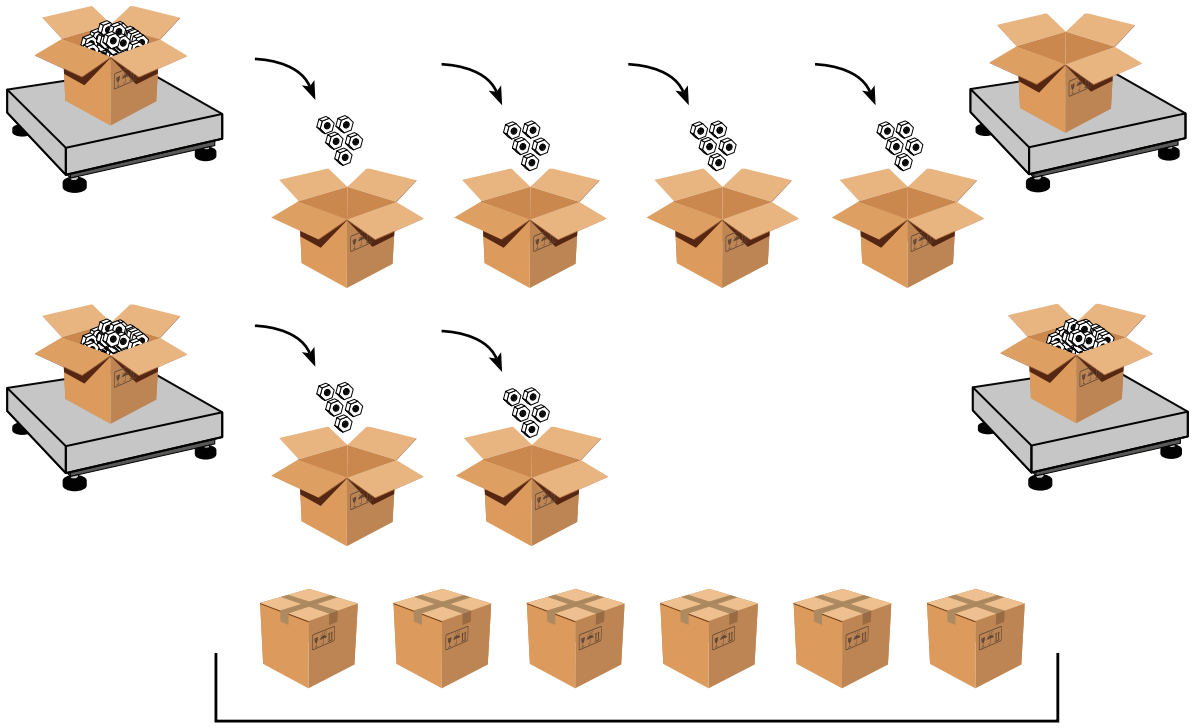
NOTE: The total can exceed the maximum scale capacity since only one object at a time is loaded.



Horizontal Unloading Totalization

Unloading totalization consists of loading a full container on the scale and using the Tare function, removing the required object quantity and executing totalization, and then repeating removing objects and totalizing. After the first container is emptied, a second container can be loaded and then restarting the process.

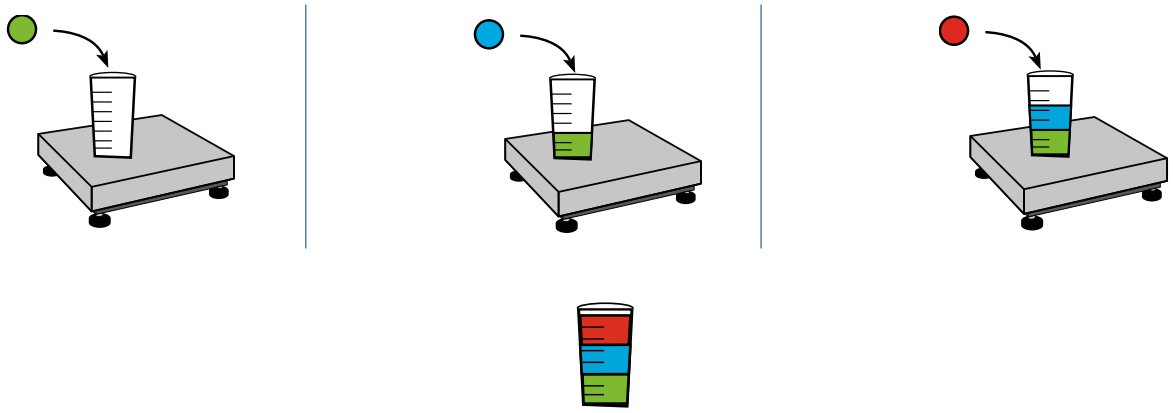
NOTE: The total cannot exceed the maximum scale capacity since at the beginning of the process, all objects (plus a possible tare) are loaded on the scale at the same time.



Vertical Loading Totalization

The vertical totalization (formulation) operation consists of loading the first object/ingredient on the scale, executing totalization, and then repeating the process until all object/ingredient are loaded and the total weight is measured. Unloading the scale occurs at the end of the process.

NOTE: The total cannot exceed the maximum scale capacity since at the end of the process, all objects (plus a possible tare) are loaded on the scale at the same time



TOTALIZATION SETUP AND OPERATION

Totalization mode (tot.Mod), automatic tare (Aut.tAr), and compulsory tare (CPS.tAr) are frequently combined in a variety of ways to operate in a specific process. This section identifies combinations of (tot.Mod, Aut.tAr and CPS.tAr) that are frequently used and their operation.

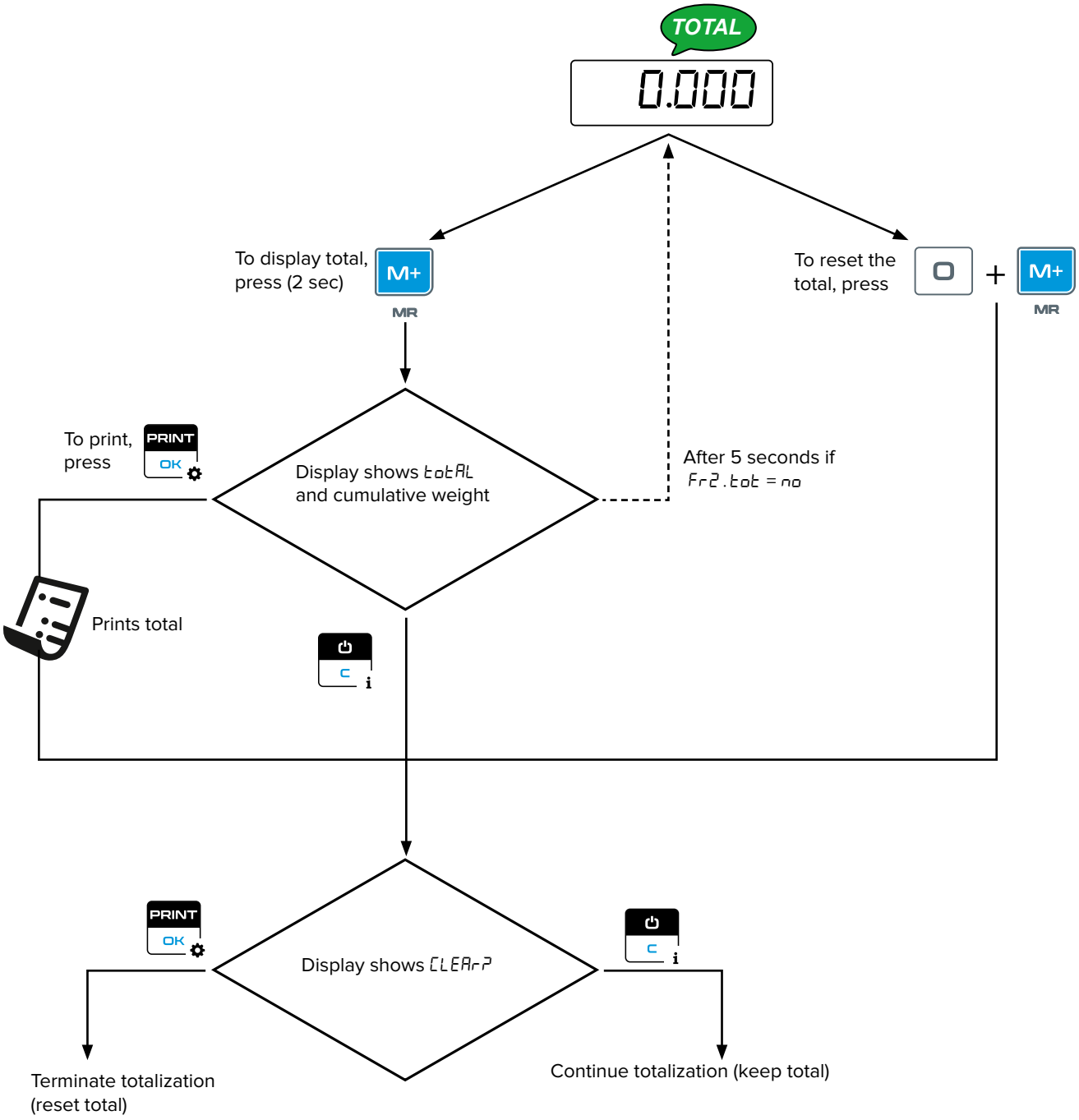
FUNCTION	SHORTCUT	SETTINGS	SCALE OPERATION PROCEDURE
Manual Vertical Totalization	EN.TOT (F + M+)	Loading	1. Load the empty tare (if required). 2. Perform the tare manually (if required) . 3. Load the weight. 4. Press **M+** to totalize and performs tare automatically. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3-4.
	TOT.MOD (203 + F)	Manual	
	AUT.TAR (15 + F)	Yes	
	CPS.TAR (207. + F)	No	
Manual Vertical totalization with Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare. 2. Perform the tare manually. 3. Load the weight. 4. Press **M+** to totalize and performs tare automatically. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3-4. *NOTE: During step 4, if a tare is not present (step 2) the indicator deisplays "no.tArE"*
	TOT.MOD (203 + F)	Manual	
	AUT.TAR (15 + F)	Yes	
	CPS.TAR (207. + F)	Yes	
Automatic Vertical Totalization	EN.TOT (F + M+)	Loading	1. Load the empty tare (if required). 2. Perform the tare manually (if required). 3. Load the weight. 4. The scale automatically totalizes and performs tare automatically. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3-4.
	TOT.MOD (203 + F)	Automatic	
	AUT.TAR (15 + F)	Yes	
	CPS.TAR (207. + F)	No	
Automatic Vertical totalization with Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare. 2. The scale performs tare automatically. 3. Load the weight. 4. The scale automatically totalizes and performs tare automatically. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3-4.
	TOT.MOD (203 + F)	Automatic	
	AUT.TAR (15 + F)	Yes	
	CPS.TAR (207. + F)	Yes	
Manual Horizontal Totalization	EN.TOT (F + M+)	Loading	1. Load the empty tare (if required). 2. Perform the tare manually (if required). 3. Load the weight. 4. Press **M+** to totalize. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 1 through 4.
	TOT.MOD (203 + F)	Manual	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	No	

FUNCTION	SHORTCUT	SETTINGS	SCALE OPERATION PROCEDURE
Manual Horizontal Totalization with Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare. 2. Perform the tare manually. 3. Load the weight. 4. Press **M+** to totalize. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 1 through 4. *NOTE During step 2, if a tare is not present the indicator deisplays "no.tArE"*
	TOT.MOD (203 + F)	Manual	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	Yes	
Automatic Horizontal Totalization	EN.TOT (F + M+)	Loading	1. Load the empty tare (if required). 2. Perform the tare manually (if required). 3. Load the weight. 4. The scale automatically totalizes. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 1 through 4. *NOTE: If a manual tare is needed, the wait stability time (WAit.St) can be configure to allow the operator to perform a manual tare within the configured time*
	TOT.MOD (203 + F)	Automatic	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	No	
Automatic Horizontal Totalization with Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare. 2. The scale performs tare automatically. 3. Load the weight. 4. Scale performs automatic totalization. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 1 through 4.
	TOT.MOD (203 + F)	Automatic	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	Yes	
Unloading Horizontal Manual Totalization	EN.TOT (F + M+)	Unloading	1. Put the full container on the scale. 2. Press **TARE**. 3. Unload the object / quantity. 4. Press **M+**, the indicator will totalize the removed weight. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3 through 4.
	TOT.MOD (203 + F)	Manual	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	Yes	
Unloading Horizontal Automatic Totalization	EN.TOT (F + M+)	Unloading	1. Put the full container on the scale. 2. Press **TARE**. 3. Unload the object / quantity. 4. If the weight is stable, the scale totalizes automatically. 5. If a printer is configured, the totalization for the weighment prints. 6. Repeat steps 3 through 4.
	TOT.MOD (203 + F)	Automatic	
	AUT.TAR (15 + F)	No	
	CPS.TAR (207. + F)	Yes	

If unLoAd *is enabled,* AUt.tAr *(automatic tare) and* unLoCK *(unlock tare) are also enabled.*

TOTALIZATION PROCESS

The following flow chart demonstrates how to view, print and terminate totalization.



ADDITIONAL TOTALIZATION SETTINGS

SETTING	DESCRIPTION
Automatic Total Calculation	1. Enter **202** + **F**. 2. Configure the number (from 1 to 200) of totalizations before the indicator automatically calculates, prints and resets the total. 3. Press **OK**. Default configuration = 0 (disabled)
Freeze Total	The freeze total function displays the total on the indicator (after the cumulative total is loaded) until it receives user interaction. 1. Enter **205** + **F**. 2. Use ▲ and ▼ arrows to select YES. 3. Press **OK**. Default configuration = no (disabled) *NOTE: See page 55, for possible user interactions.*
Wait for Weight Stability	WAit.St configures the allocated time for the weight to stabilize after **M+** is pressed. If the weight becomes stable within the configured time, the weight totalizes. Otherwise it displays "Error". 1. Enter **206** + **F**. 2. Enter the stabilization time. 3. Press **OK**. Default configuration = 0 (disabled)

RESET TOTALIZATION VALUES

For information about resetting totalization values, see page 72.

CHECK WEIGH MODE

OVERVIEW

Check weigh mode is a function that verifies an object's weight against a configured target and optional thresholds. The multi-color display provides a real-time indication if the current weight is acceptable or larger/smaller than expected.

The DFWX includes 4 different check weighing modes, to match different applications:

MODE	DESCRIPTION
Gross	Controls total weight of goods by verifying if the measured gross weight is acceptable or is out of tolerance. *NOTE: Typically used for inspection to identify missing parts in packages.*
Net	Verifies if the measured net weight is acceptable or is out of tolerance. *NOTE: Typically used to measure the weight of a container with product.*
Zero	Verifies if the measured net weight is the same as the sample. *NOTE: Typically used to quality check production goods. This function also displays the weight difference between the sample and production.*
Net Negative	Verifies if the measured net weight acceptable or out of tolerance. This function verifies how much product is removed from the total on the scale. *NOTE: Typically used to manually add ingredients to bases moving on production lines or to fill containers to a certain quantity. This mode requires a TARGET greater than 10 scale divisions.*

HOW TO CONFIGURE CHECK WEIGH MODE

DFWX includes 4 different check weighing modes, to match different applications:

MODE	DESCRIPTION
Gross	1. Enter **F + TARGET** then select GroSS. 2. Press **OK.**
Net	1. Enter **F + TARGET** then select nEt. 2. Press **OK.**
Zero	1. Enter **F + TARGET** then select 2Ero. 2. Press **OK.**
Net Negative (Unload weight)	1. Enter **F + TARGET** then select nEt .nEG. 2. Press **OK.** *NOTE: A minimum division is required (set in* **16 + F;** rEACt ▶ inSt ▶ n.d iUS*).*

NOTE: When Check mode is Active, the following icon appears on the top bar of the display: ▼

HOW TO MANUALLY SET A TARGET

A target can be manually set in two different methods (see below)

MODE	METHOD 1	METHOD 2
Gross, Net, Net Negative	1. Unload the scale. 2. Enter the value with the numeric keyboard. 3. Press **TARGET**. 4. Press **OK**.	1. Unload the scale. 2. Press **TARGET**. 3. Enter the value 4. Press **OK**.
Zero	1. Enter the target value with the numeric keyboard. 2. Press **TARGET**.	1. Enter the target value with the numeric keyboard. 2. Press **TARGET**.

NOTE: If a target has been correctly programmed, the icon TARGET appears on the display.

HOW TO SAMPLE A TARGET FROM THE SCALE

MODE	DESCRIPTION
Gross	1. Put the sample weight on the scale. 2. Press **TARGET**.
Net	1. Put the Tare weight on the scale. 2. Press **TARE**. 3. Put the sample weight over the scale. 4. Press **TARGET**.
Zero	1. Put the sample weight on the scale. 2. Press **TARE**.
Net Negative	1. Put total quantity on the scale weight and press **TARE**. 2. Remove the sample quantity. 3. Press **TARGET**.

NOTE: If a target has been correctly programmed, the icon TARGET appears on the display.

During check weighing, the check icon functions in the following method:

MODE	DESCRIPTION
	Check mode is active. If the display is green, weight is equal to target.
	Weight is under target. If the display is green, weight is still in tolerance. If the display is another color, weight is out of tolerance.
	Weight is over target. If the display is green , weight is still in tolerance. If the display is another color, weight is out of tolerance.

HOW TO MANUALLY SET THRESHOLDS

1. Press **HI/LO**.
2. Enter the low threshold.
3. Enter the high threshold.

NOTE: If thresholds have been correctly programmed, the incons HI and LO appear on the display.

CHECK WEIGH MODE CONFIGURED

Once a Target and thresholds have been programmed, the following Icons appear on display:
TARGET HILO. When check weigh mode is active, the display changes color automatically to show the check result.

NOTE: If a threshold is configured, check mode activates when the weight exceeds the threshold. For more information, see ChECh ▶ thrESh on page 82.

HOW TO USE THE CHECK WEIGH MODE

Gross, Net, and Zero Check Weigh Modes

Gross, Net and Zero Check Weigh modes operate by adding objects to a platform a target weight. If a modes requires a tare, container is added prior to weighing the sample.

MODE	DESCRIPTION
Gross	1. Place the weight on the scale. 2. Check the weight.
Net	3. Place container on the scale. 4. Press **TARE**. 5. Check the weight.
Zero	6. Place sample on the scale. 7. Press **TARE**. 8. Verify all other products.

Negative Net Check Weigh Modes

Negative net Check Weigh modes require a specific parameter configuration in order to function. Typically Negative Net Check Weigh modes operate by loading a container with samples on a platform and then removing a specific quantity of objects from the platform to reach a target.

FUNCTION	SHORTCUT	SETTINGS	SCALE OPERATION PROCEDURE
Unloading Net Weight Check with Manual Totalization	EN.TOT (F + M+)	Unloading	1. Load a full container 2. Perform tare manually 3. Remove sample quantity until the target is reached 4. Press **M+** to totalize 5. Instrument automatically tares the weight 6. Repeat step 3 and 4 until container empty 7. Remove the empty container and the indicator cancels the tare ***NOTE : During step 2, if a tare is not present the indicator deisplays "no.tArE".***
	C.MODE (F + TARGET)	Neg.net	
	TOT.MOD (203 + F)	Manual	
	203.TAR (15 + F)	No	
	CPS.TAR (207 + F)	Yes	
	TARE (14 + F)	Unlock	
Unloading Net Weight Check with Automatic Totalization	EN.TOT (F + M+)	Unloading	1. Load a full container 2. the instrument perform tare automatically 3. Remove sample quantity until the target is reached 4. The indicator performs the following: • Totalizes if the weight is in tollerance and stable • Tares the weight 5. Repeat step 3 until empty 6. Remove the empty container and the indicator cancels the tare
	C.MODE (F + TARGET)	Neg.net	
	TOT.MOD (203 + F)	Automatic	
	203.TAR (15 + F)	No	
	CPS.TAR (207 + F)	Yes	
	TARE (14 + F)	Unlock	

ADDITIONAL SETTINGS

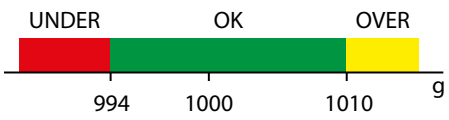
Tolerance Input Modes

Tolerance range can be expressed in 3 different ways.

SHORTCUT	PARAMETER	DESCRIPTION
102 + F	toLEr (default)	Requires setting a TARGET and HI\LO weighing thresholds. Parameter values are expressed in weight. For example: TARGET= 1000g; TOLERANCE HI 10g; TOLERANCE LO= 6g
	t.PErC	Requires setting a TARGET and HI\Low weighing thresholds. Parameter values are expressed in % with 2 decimal places. For example: TARGET= 1000g; TOLERANCE HI = 5%; TOLERANCE LO = 3%
	AbSoL	Requires setting a HI\LOW weighing thresholds. Parameter values are expressed as absolute thresholds. For example: TOLERANCE HI = 1010g; TOLERANCE LO 944g.

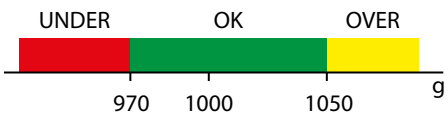
toLEr

TARGET = 1000 g
HI = 10 g
LO = 6 g



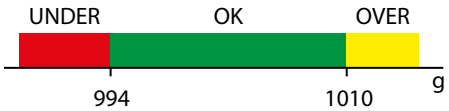
t.PErC

TARGET = 1000 g
HI = 5%
LO = 3%



AbSoL

HI = 1010 g
LO = 994 g



Check Message on Display

The display shows specific messages while checking weight to help the user understand the result:

SHORTCUT	PARAMETER	DESCRIPTION
103 + F	on (default)	Enabled
	oFF	Disabled

NOTE: The following are messages can occur during check weighing:

MESSAGE	DESCRIPTION
¯ oUEr	Weight over tolerance
¯ oh X	Weight in tolerance but higher than target; X is the weight exceeding target (max of 9 units)
- oh -	Weight equal to target
_ oh X	Weight in tolerance but lower than target; X is the weight missing to reach target (max of 9 units)
_ undEr	Weight under tolerance

Acoustic Speaker

If on, the internal speaker emits audio during check operations:

SHORTCUT	PARAMETER	DESCRIPTION
104 + F	nutE (default)	Speaker OFF (default)
	b.out	Beeps if out of tolerance, only when weight is stable
	b.SEnSE	Beeps frequency changes in real time, in function of the weight. More the weight get closer the target, more the Frequency increases

Check On/Off Threshold

It is possible to set a weighing threshold when the check is not performed. This avoids any unsuspected check when the scale is empty or partially loaded.

SHORTCUT	PARAMETER	DESCRIPTION
105 + F	thrESh	Sets threshold weight value

Color Configuration

It is possible to set the configuration for various check status (under, OK, over, and unstable).

SHORTCUT	PARAMETER	DESCRIPTION
106 + F	C.undEr	Color for Weight Under status (default red)
107 + F	C.oh	Color for Weight OK status (default green)
108 + F	C.oUEr	Color for Weight Over status (default yellow)
109 + F	oh unS	Color for weight OK but Unstable status (default green)

NOTE: The available backlight colors follow:
- CoL 1 = ***Red***
- CoL 2 = ***Green***
- CoL 3 = ***Yellow***
- CoL 4 = ***Blue***
- CoL 5 = ***Purple***
- CoL 6 = ***Orange***
- CoL 7 = ***Cyan***

Print and Store Alibi Memory only when Weight is in Tolerance

If enabled, Printout and Alibi memory data storage (if alibi memory is present) occurs if the weight is within tolerance.

SHORTCUT	PARAMETER	DESCRIPTION
110 + F	no (default)	Print and store stable weights
	YES	Print and store only in tolerance weights

Data Transmission to PC Only in Tolerance

If enabled, data transmission occurs when the weight is within tolerance.

SHORTCUT	PARAMETER	DESCRIPTION
111 + F	no	Weight transmission always active
	YES	Weight transmission only in tolerance

NOTE: Depending on the communication mode, this parameter transmits data in a specific way:

COMMUNICATION	DESCRIPTION
Transmission upon request	No restrictions
Continuous transmission	Only in tolerance
Transmission when Print K is pressed	Only in tolerance
Automatic Transmission at weight stability	Only in tolerance

Smart Threshold Input

Smart threshold input simplifies the threshold configuration. With smart threshold, the operator may enter the HI and LO values with or without a decimal point. The indicator then converts the value to the current weight and correctly positions the decimal point. For more information, see tH.SMAr parameter on page 84.

NOTE: When needed, thresholds are rounded-up to the scale division.

SHORTCUT	PARAMETER	DESCRIPTION
112 + F	no (default)	Threshold input - standard mode
	YES	Print and store

RESET CHECK WEIGH VALUES

For information about resetting check weighing values, see page 72.

COMBINED MODES

Check weighing mode can be combined with Totalization and Counting mode in a variety of ways to create specific processes. This section identifies combinations with Check weighing mode that are frequently used.

NOTE: Check mode combinations can also be performed with PCS quantity. Set **F** + **REF** *to* on*, and sample the quantity (see page 69).*

Loading Check Weigh Modes

FUNCTION	SHORTCUT	SETTINGS	SCALE OPERATION PROCEDURE
Gross Weight Check with Manual Totalization	EN.TOT (F + M+)	Loading	1. Load the weight 2. If stable and in tollerance press **M+** to totalize 3. Unload the scale and repeat step 1 to 2
	C.MODE (F + TARGET)	Gross	
	TOT.MOD (203 + F)	Manual	
	203.TAR (15 + F)	No	
	CPS.TAR (207 + F)	No	
Net Weight Check with Manual Totalization and Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare 2. Perform tare manually 3. If stable and in tollerance press **M+** to totalize 4. Unload the weight and repeat step 1 to 3 ***NOTE : During step 2, if a tare is not present the indicator deisplays "no.tArE".***
	C.MODE (F + TARGET)	Net	
	TOT.MOD (203 + F)	Manual	
	203.TAR (15 + F)	No	
	CPS.TAR (207 + F)	Yes	
Gross Weight Check with Automatic Totalization	EN.TOT (F + M+)	Loading	1. Load the weight 2. If stable and in tollerance, the weight is automatically totalized 3. Unload the scale and repeat step 1 ***NOTE: If a manual tare is needed, the wait stability time (WAit.St) can be configure to allow the operator to perform a manual tare within the configured time***
	C.MODE (F + TARGET)	Gross	
	TOT.MOD (203 + F)	Automatic	
	203.TAR (15 + F)	No	
	CPS.TAR (207 + F)	No	
Net Weight Check with Automatic Totalization and Mandatory Tare	EN.TOT (F + M+)	Loading	1. Load the empty tare 2. The instrument perform tare automatically 3. Load the weight 4. If stable and in tollerance, the weight is automatically totalized 5. Unload the scale and repeat step 1 to 3
	C.MODE (F + TARGET)	Net	
	TOT.MOD (203 + F)	Automatic	
	203.TAR (15 + F)	Yes	
	CPS.TAR (207 + F)	Yes	
	TARE (14 + F)	Unlock	

COUNTING MODE

INTRODUCTION

The count function allows the scale to convert weight into pieces. The conversion is possible by sampling a known number of pieces or manually inserting the single piece weight (APW).

NOTE: Piece Counting mode only functions if the objects that will be counted are consistent with one another. For example, a quantity of M4 nuts can be counted in the same process. However, quantities of M4 and M6 nuts can not be counted in the same process.

HOW TO ENABLE COUNTING MODE

1. Press **F** + **REF** key
2. Use ▲ and ▼ arrows to select the mode "on".
3. Press **OK**.

NOTE: Switch between weight and PCS with CONV key.

HOW TO SAMPLE

PROCESS	DESCRIPTION
With PCS number by keyboard	1. Put the empty/full container on the scale. 2. Press **TARE**. 3. Load/unload the scale with the known quantity of pieces. 4. Enter the number of pieces and press the **REF** key. 5. The display blinks with the number of pieces and the message SAMPLE. *NOTE:* • *Steps 1 and 2 can be skipped if there is no container.* • *Step 2 can be skipped if the tare is automatic (see page 30).* • *Using this method, the number set in SMPL.Pr is ignored (see page 70).* • *For a correct sampling, the weight must be at least 0,1% of scale capacity.*
With PCS quantity presets	1. Put the empty/full container on the scale. 2. Press **TARE**. 3. Load/unload the scale with a known quantity of pieces. 4. Press **REF** key. 5. Use ▲ and ▼ arrows to select the quantity from the presets (if no preset matches the quantity added/removed select FrEE). 6. Press **OK**. ◦ If FrEE is selected, insert the number of pieces to sample and press **OK** 7. The display blinks with the number of pieces and the message SAMPLE. *NOTE:* • *Steps 1 and 2 can be skipped if there is no container.* • *Step 2 can be skipped if the tare is automatic (see page 30).* • *Steps 5-6 can be skipped if the parameter SMPL.Pr ≠ 0 (see page 70).* • *For a correct sampling, the weight must be at least 0.1% of scale capacity.*

*Sampling time configures the duration (in seconds) used to count the objects on the scale. The time can be increased or reduced using shortcut **303** + **F**. Increased sampling time provides more accurate results, however takes longer to process.*

Default = 10

HOW TO COUNT

PROCESS	DESCRIPTION
Load	1. Place a container on the scale. 2. Press **TARE**. 3. Load the quantity of objects (PCS) into the container. 4. The display shows the number of pieces (PCS) added.
Unload	1. Place a container full of objects (PCS) on the scale. 2. Press **TARE**. 3. Remove the required quantity of objects (PCS). 4. The display shows the number of pieces (PCS) removed. *NOTE:* • *Steps 1 and 2 can be skipped if there is no container.* • *Step 2 can be skipped if the tare is automatic (see page 30).*

SET AVERAGE PIECE WEIGHT (APW)

If the weight of the single piece is known, it is possible to directly enter the value (APW):
1. Long press **REF** key (3 seconds).
2. Input the APW value.
3. Press **OK**.

NOTE: Ensure to have the correct APW unit of measure (see paragraph "U.M. APW"). APW can also be configured by a serial command over a communication port (Bluetooth, Eth, Serial, or WiFi). For more information, see DFWX Serial Protocol Technical manual.

SAMPLING PRESETS

After **REF** is selected you can pick one of the default presets.
The indicator is configured by default with 10 presets:
- 5
- 10
- 20
- 30
- 40
- 50
- 60
- 75
- 100
- 200
- FREE (where it is possible to insert a free value)

Also, the SMPL.Pr parameter allows a fixed PCS reference. If a value has been configured, when **REF** key is pressed, that value will be directly taken as sampling quantity (without showing the other presets).

SWITCH BETWEEN PCS AND WEIGHT

Press **CONV** to switch between PCS and weight.

NOTE: Based on what has been set in **F + CONV** *the display may show PCS alternates with a different unit of measure. For more information about conversion, see 44.*

ADDITIONAL SETTINGS

PROCESS	DESCRIPTION
Set APW unit of Measure	1. Press **302+F** . 2. Use ▲ and ▼ arrows to select desired unit of measure of the APW (u.M.APW). 3. Press **OK**.
Wait Time Sampling	1. Press **303+F**. 2. Enter the desired sampling time. 3. Press **OK**. ***NOTE: Longer time means more accurate result.***

RESET PCS COUNT

Press **0 + REF** the current piece count clears.

RESET COUNTING VALUES

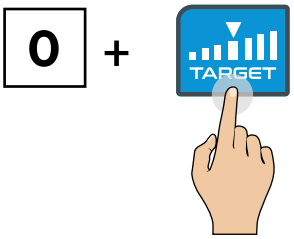
For information about resetting counting values, see page 72.

RESET FUNCTIONS

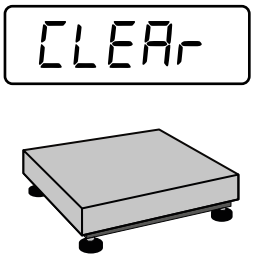
HOW TO RESET CHECK WEIGH MODE

1 .

2 .

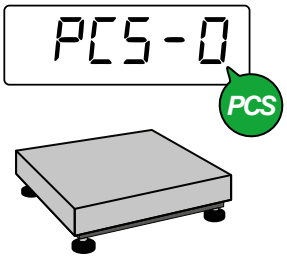


3 .

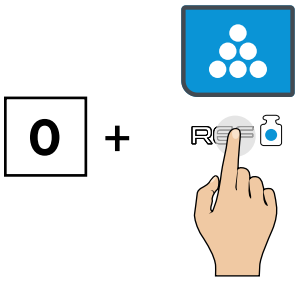


HOW TO RESET PIECE COUNCTING VALUES

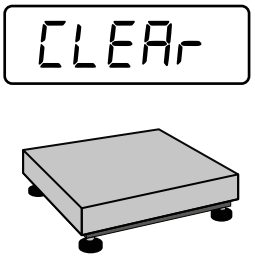
1 .



2 .



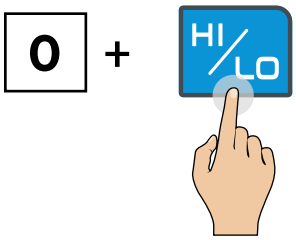
3 .



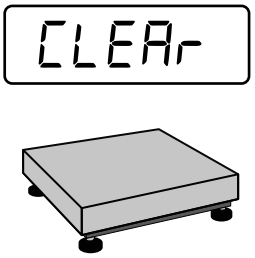
HOW TO RESET HIGH/LOW THRESHOLDS

1 .

2 .

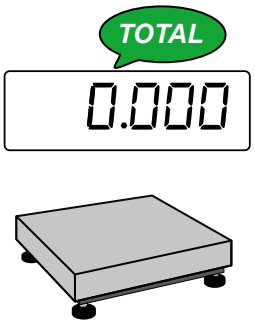


3 .

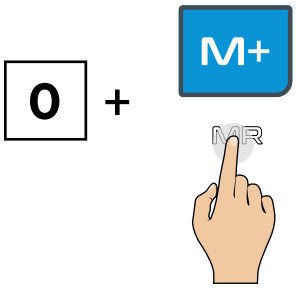


HOW TO RESET TOTAL IN MEMORY

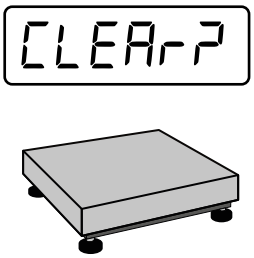
1



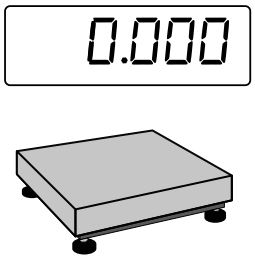
2



3



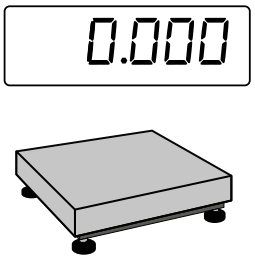
4



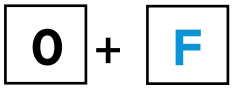
NOTE: Power cycling the indicator does not reset the total. The total is maintained in memory when the indicator is powered off.

HOW TO RESET CHECK WEIGH, COUNTING, THRESHOLDS AND TOTAL IN MEMORY

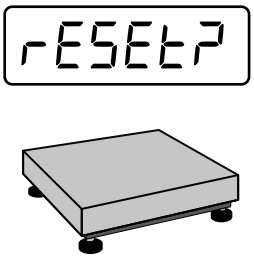
1



2



3



4

METROLOGICAL INFORMATION

INTRODUCTION

THE DFWX is an indicator can be approved for legal for trade applications.

SERIAL NUMBER

The SN identifies the instrument. If the instrument is part of a system with one or more platforms, the SN identifies the whole system. The serial number is located on the product label attached to the rear cover of the indicator.

METROLOGICAL FIRMWARE

The metrological firmware is indicated on the Evaluation Certificate.

The indicator shows the metrological firmware as the first value during slow start-up (pressing **ZERO** during start-up).

INFORMATION

Press **F** + **C** to see metrological information of the scale.

For each weighing range (W1, W2, W3) the display shows:

- Capacity (Max)
- Min (Min)
- Division (e)

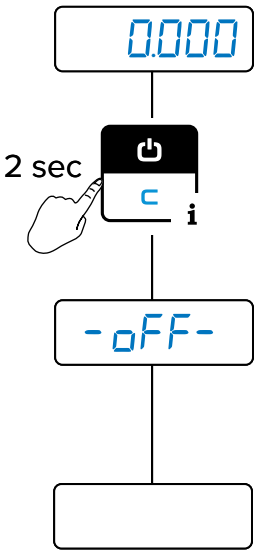
NOTE: The display shows “e”, instead of “d”, even if the indicator is not legal for trade.

NOTE: The following illustration is an example, actual values vary.

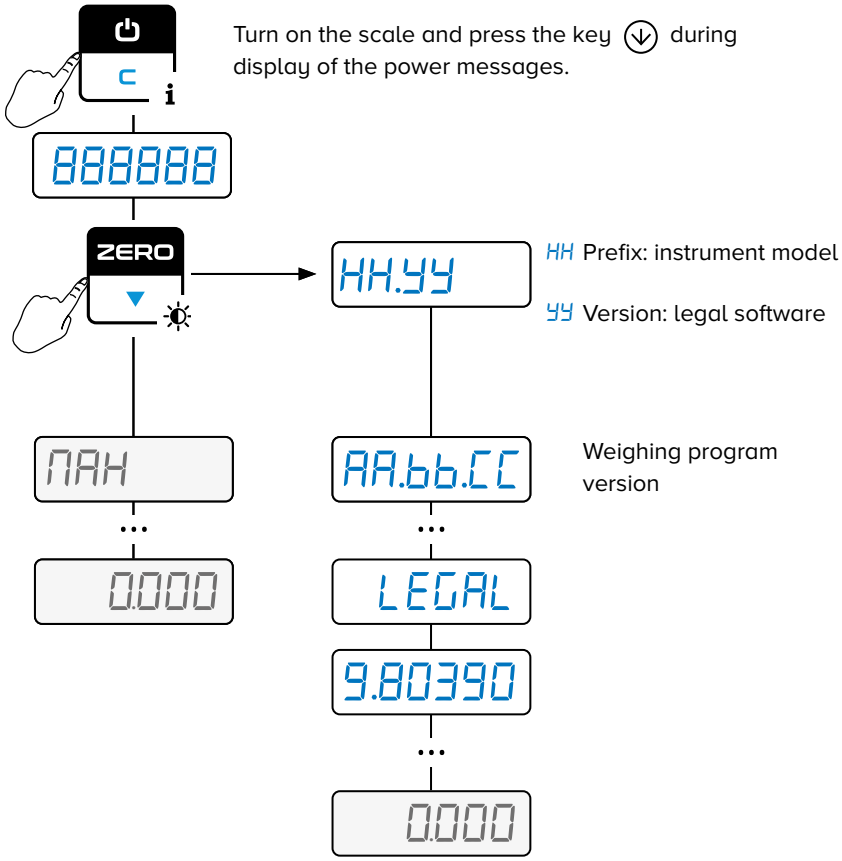
IDENTIFICATION OF METROLOGICAL SOFTWARE

View Metrological Information

1. Turn off the scale



2. Follow the procedure:



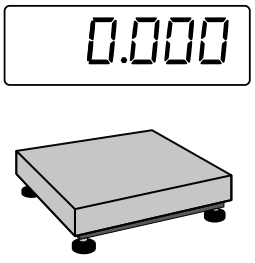
Turn on the scale and press the key ⓘ during display of the power messages.

Item	Description
HH.YY	xx = Prefix: instrument model yy = Version: legal software
AA.bb.CC	Weighing program version
dFbH	Product name
-I- 1.08	Hardware identification (for manufacturer purposes)
HHHHH.H	Calibration parameters: Capacity and resolution
hirES or LEGAL	Hires = internal use configuration Legal = legal for trade configuration
9.HHHHHH	Gravity acceleration value in use

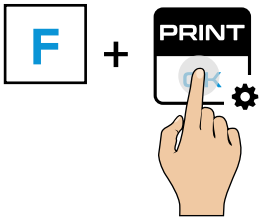
CONFIGURATION MENU

HOW TO ACCES THE CONFIGURATION MENU

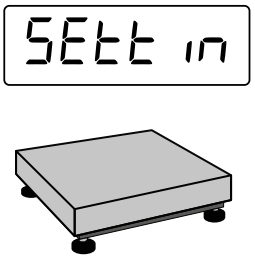
1



2



3



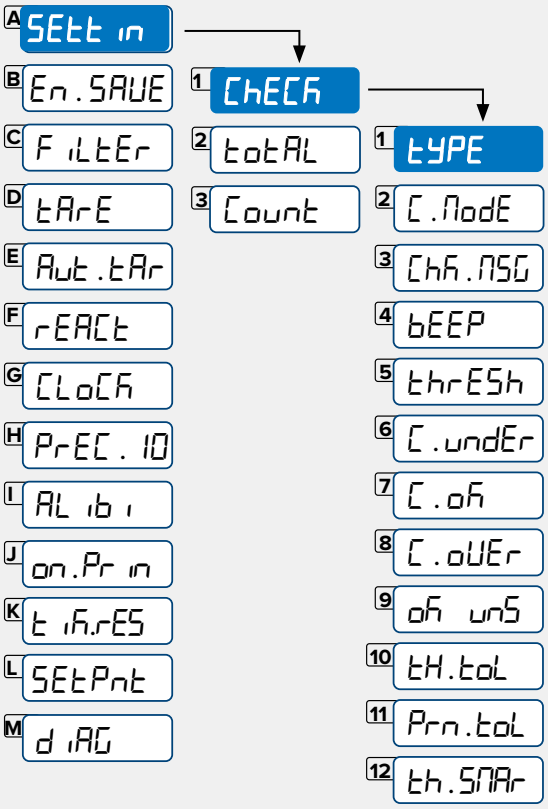
MENU

How to enter

F + OK

How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C

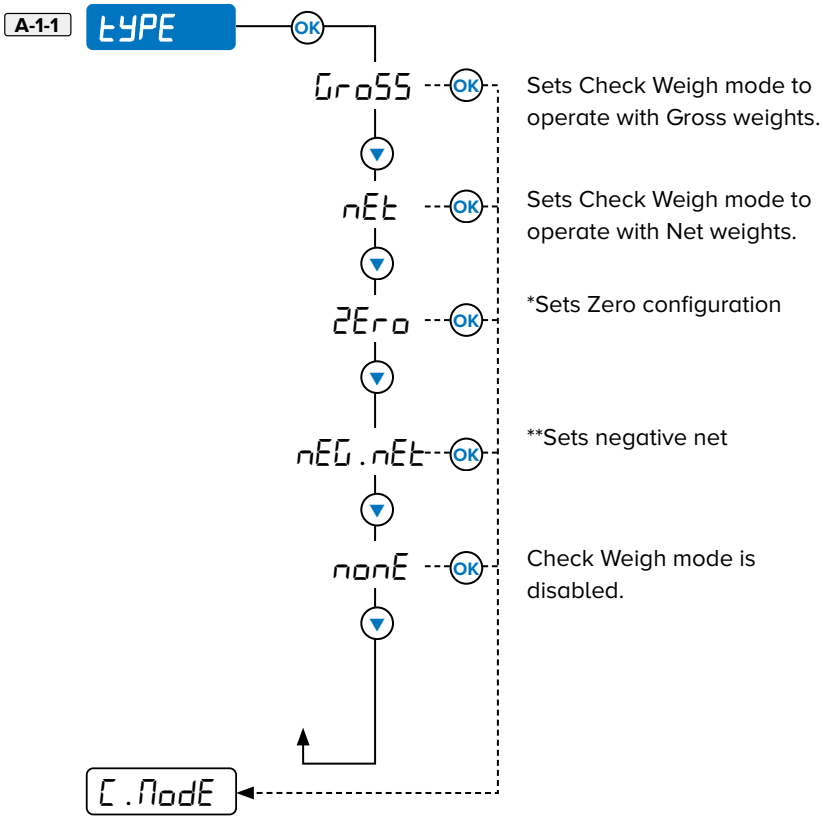


SEtt in - SETTINGS

CHECK - CHECK WEIGH MODE

tYPE- Type of Check Weigh Mode (101 + F)

Configures the type of Check Weigh mode.



* Places sample weight in tare, and performs a check by comparing the weight with the 0 NET. When a product to verify is put on the scale, the display shows the weight difference in positive or negative values and the check result (under, over or OK). Quickly determines the difference between the original and new object weighed.

** Sets Check Weigh mode to operate with Negative net weight. Subtracts a quantity from a total amount on the scale.

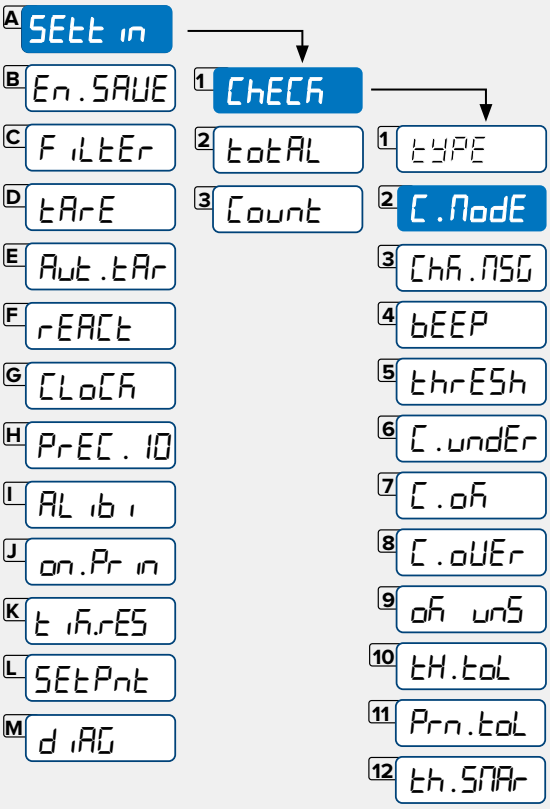
MENU

How to enter

F + OK

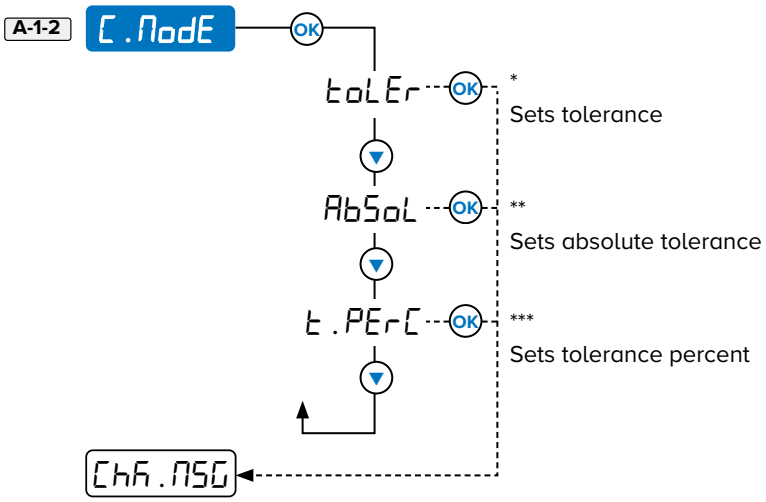
How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C



C.ndE - CHECK MODE (102 + F)

Configures the check weighing mode threshold tolerance.



* Tolerance is set as +\- weight values referencing a target (for example, 1000 g +\- 10 g or +10 g/-6 g)

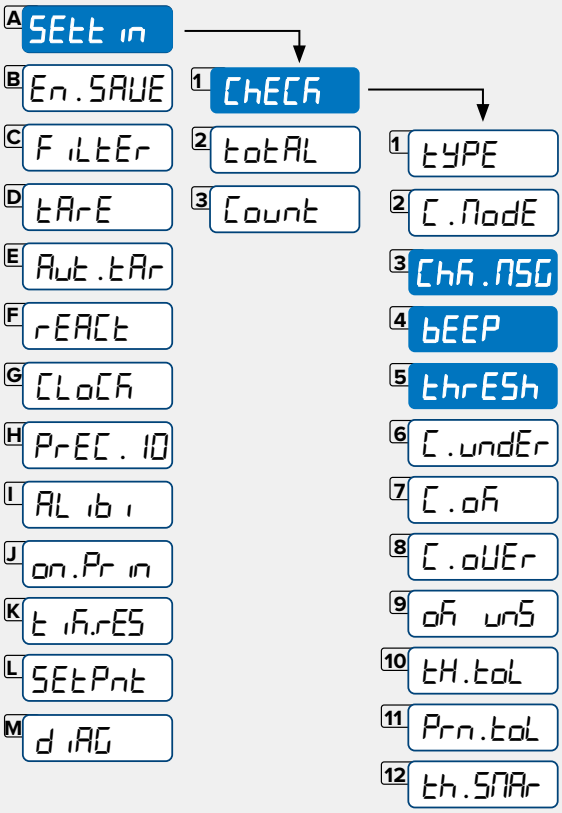
** Absolute Tolerance is set as weight values that limit the range in tolerance (for example, 990 g - 1010 g)

*** Tolerance percent is set in +\- % of the target (for example, 1000g +\- 0.1% or +0.1/-0.05%)

DINI ARGEO Scales - Weighing systems

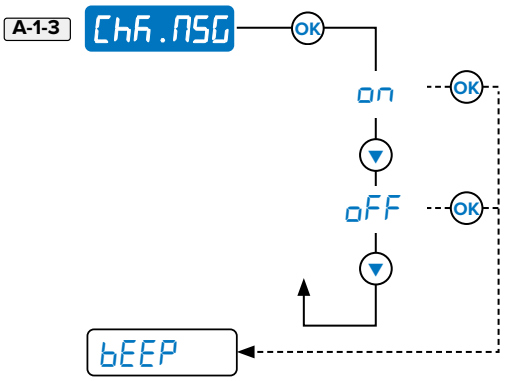
MENU

How to enter	How to browse
F + OK	▲ = ▲ ▼ = ▼ OK = OK ← = C



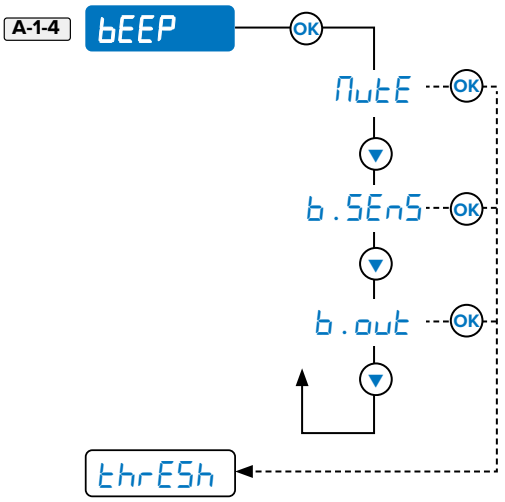
ChK.MSG - CHECK MESSAGE (103 + F)

Enables/disables check weigh mode messages (for example: _undEr, -oK- or -oUEr)



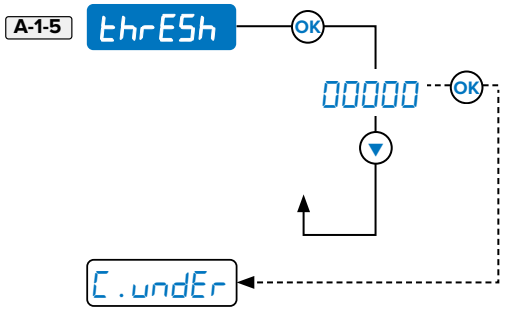
bEEP - CHECK WEIGH MODE BEEP (104 + F)

Enables acoustic notifications (beep) for the operator specific to check weigh mode.



thrESh - CHECK WEIGH MODE THRESHOLD (105 + F)

Activates Check Weigh mode when the weight exceeds the threshold. When the weight is under the threshold, Check Weigh mode is off.



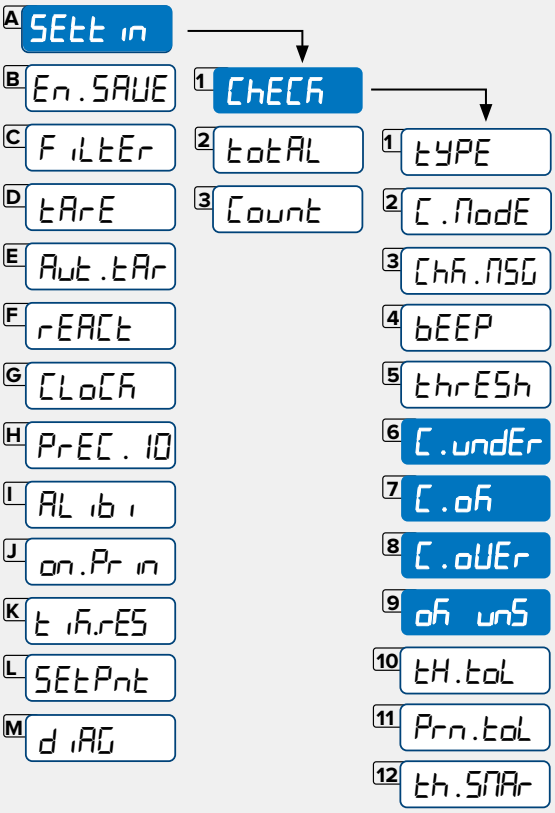
MENU

How to enter

F + OK

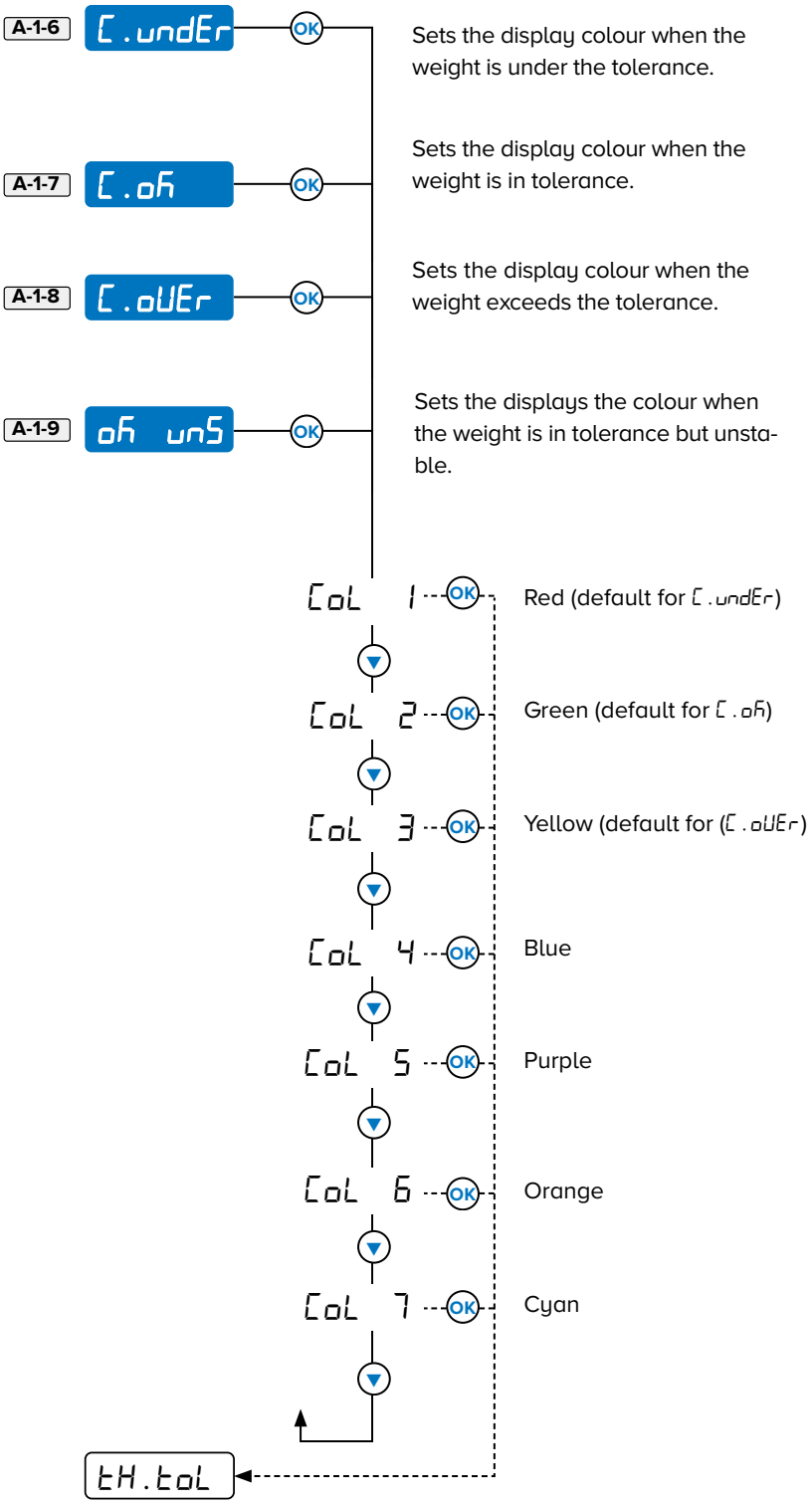
How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C



C.undEr - COLOR UNDER (106 + F)
C.oK - COLOR OK (106 + 7)
C.oUEr - COLOR OVER (106 + 8)
oKunS - OK UNSTABLE (106 + 9)

Sets the backlight color depending on the status of the measure weight in relation to the configured sample.



DINI ARGEO Scales - Weighing systems

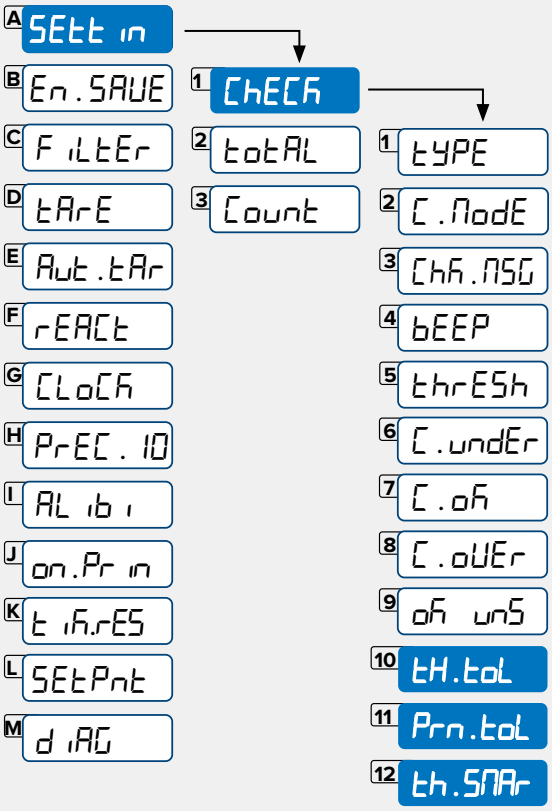
MENU

How to enter

F + OK

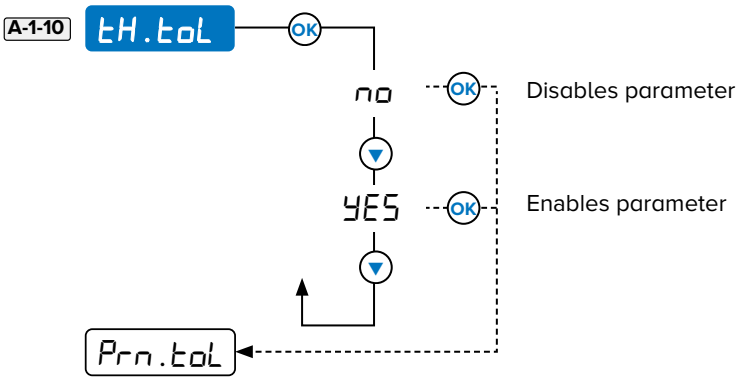
How to browse

= ▲
= ▼
= OK
= C



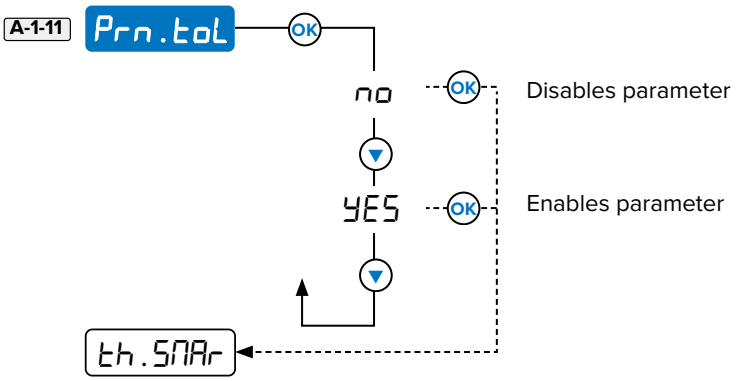
tH.toL - TRANSMISSION IN TOLERANCE (110 + F)

When a serial port Cont in is set as Cont in or StAbLE the string is only sent if the weight is in check weighing tolerance.



Prn.toL - PRINT TOLERANCE

The Print key only functions if the weight is in check weighing tolerance.

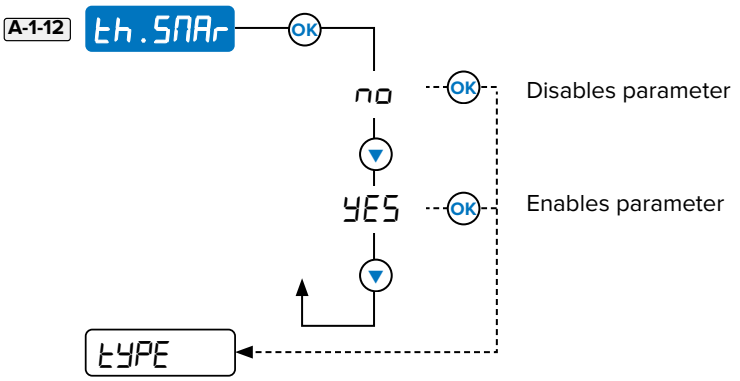


th.SMAr - THRESHOLD SMART (112 + F)

Smart threshold simplifies threshold configuration by converting metric units to smaller units that do not use decimals (whole values) for configuration.
For example:

- Tons change to kilograms
- Kilograms change to grams

NOTE: After a value is entered, press "." (period) to return to the original configured unit (value with allowed decimals).



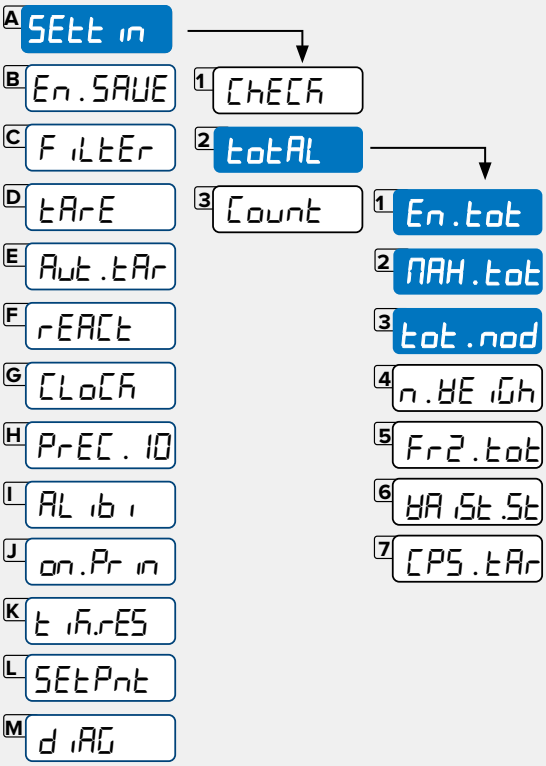
MENU

How to enter

F + OK

How to browse

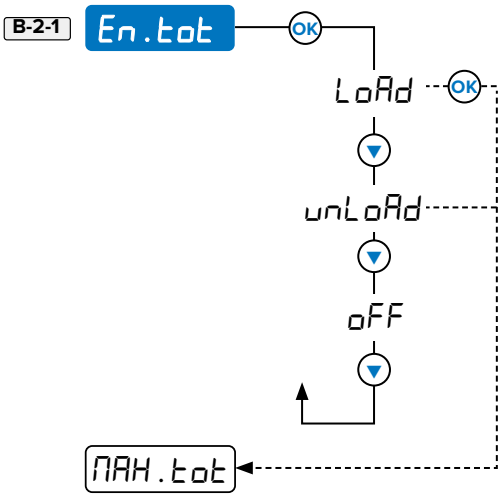
↑ = ▲
↓ = ▼
↵ = OK
← = C



totAL - TOTALIZATION

En.tot - ENABLE TOTALIZATION MODE (201 + F)

Configures the totalization type.

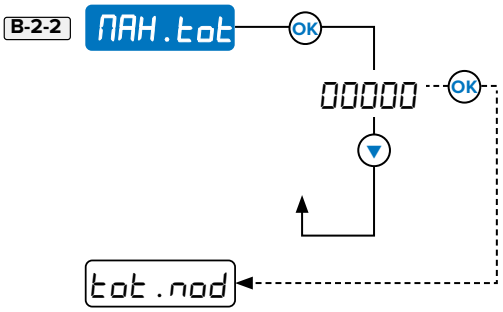


Totalization of positive net\ gross weight

Totalization of negative net weight

MAH.tot - MAXIMUM TOTALIZATION (202 + F)

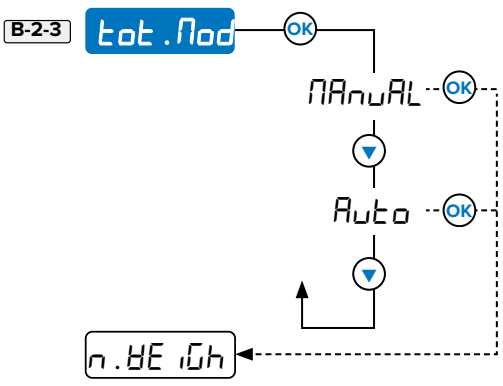
Defines the maximum quantity of totalizations that can be summed. After the maximum quantity is exceeded the indicator prints the total and then totalizations restart at 1.



From 0 to 200.
0 = Disabled.

tot.Mod - TOTALIZATION MODE (203 + F)

Configures how weighments are added to the totalization value.



Press **M+** to add a weight to the total.

Automatically adds the weight when it is stable and within target.

DINI ARGEO Scales - Weighing systems

MENU

How to enter

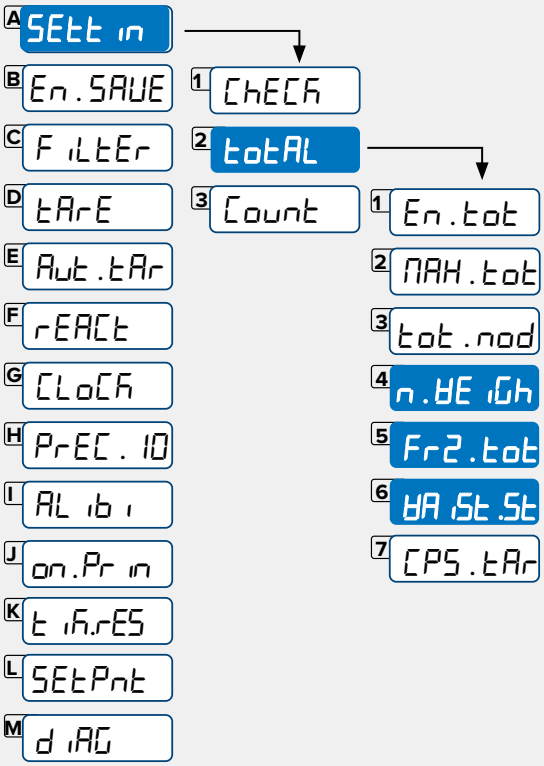
F + OK

How to browse

↕ = ▲ / ▼

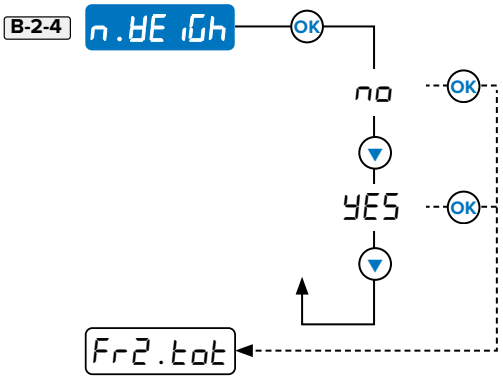
↵ = OK

← = C



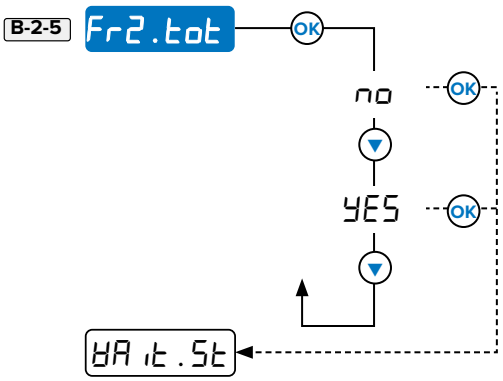
n.bE iGh - SHOW TOTALIZATION WEIGH NUMBER (204 + F)

Displays the weighment number and totalized weight after each totalization (for example, totAL, n 1, 10.500 g).



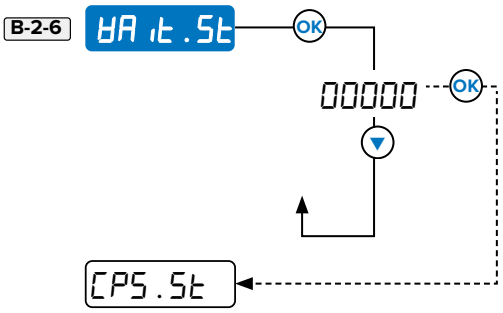
Fr2.tot - FREEZE TOTAL (205 + F)

Displays the total weight at the end of totalization. Press any button to remove the weight.



bA it.St - WAIT STABILITY (206 + F)

Configures waiting time for weight stabilization. Increasing the value is helpful for units or objects that require additional time to stabilize. For example, pressing column unit buttons may cause brief instability.



Set from 0 to 255 seconds.
0 = Disabled.

DINI ARGEO Scales - Weighing systems

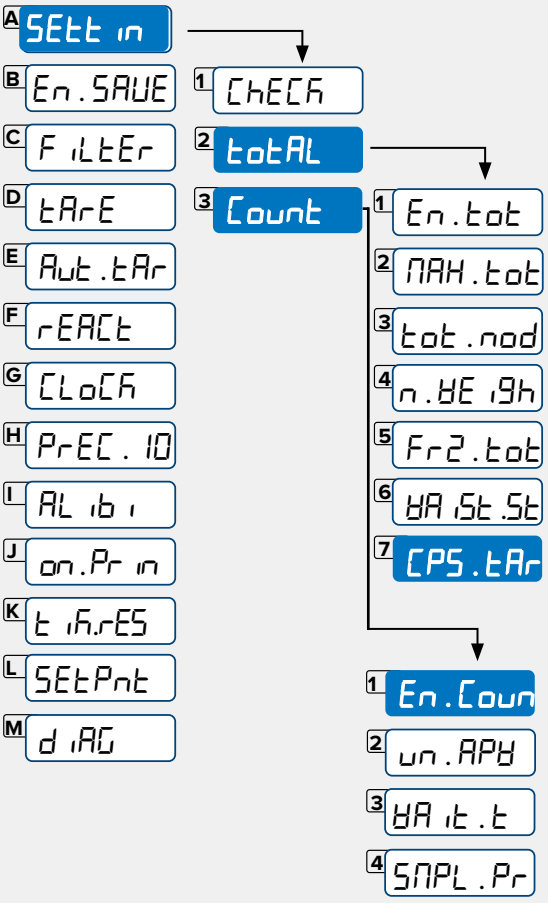
MENU

How to enter

F + OK

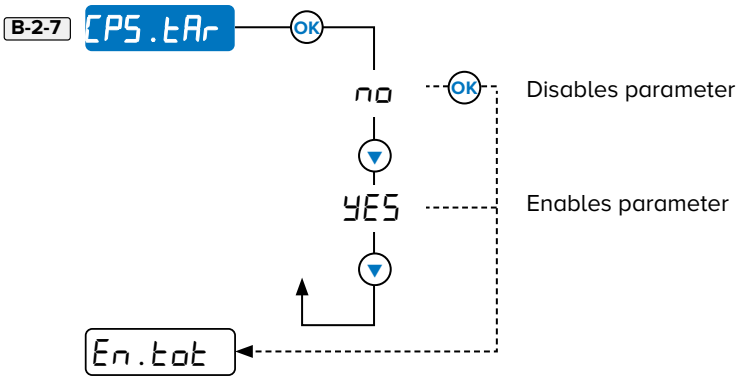
How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C



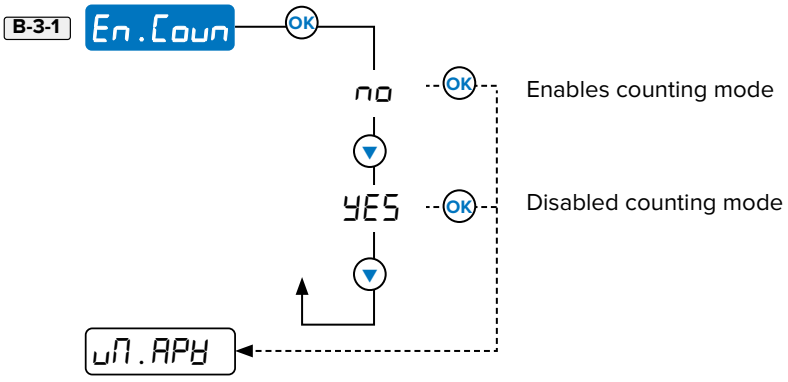
CPS.tAr - COMPULSORY TARE (207 + F)

Configures the indicator to require a tare in order add weight to totalize.



Count - COUNTING MODE

En.Coun - ENABLE COUNTING MODE (301 + F)



DINI ARGEO Scales - Weighing systems

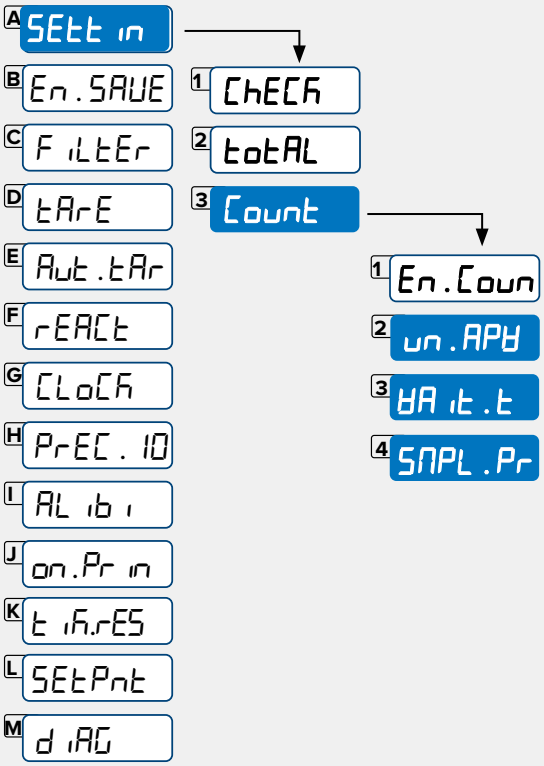
MENU

How to enter

F + OK

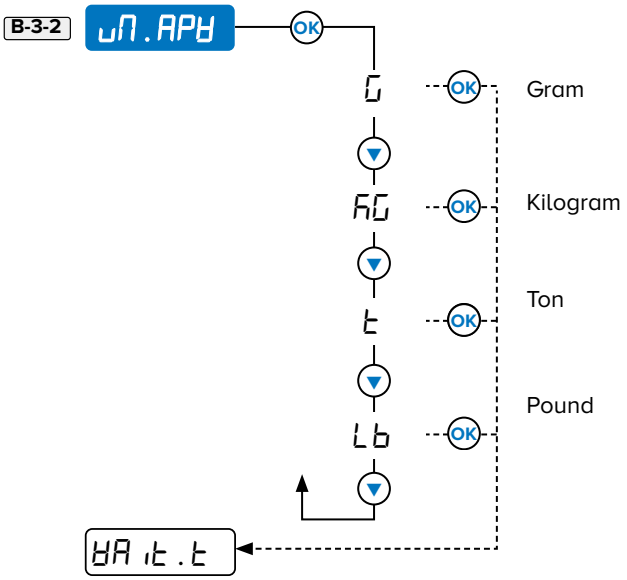
How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C



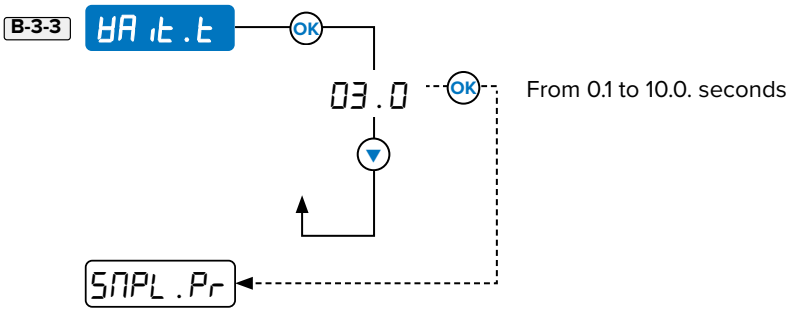
uN.APU - UNIT OF MEASURE AVERAGE PIECE COUNT WEIGHT (302 + F)

Sets Unit of measurement of the average piece weight (PMU).



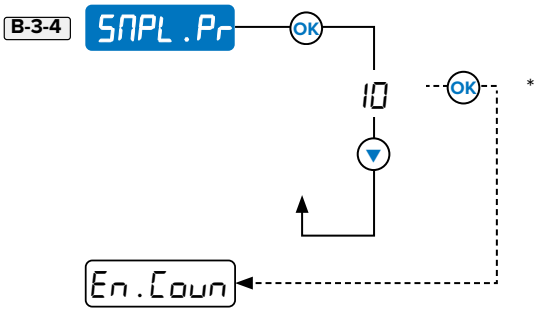
UA it.t - WAIT TIME SAMPLING (303 + F)

Configures the desired sampling time. When the time is increased, the sample acquisition precision increases.



SNPL.Pr - SAMPLE PRESET (304 + F)

Sets how the instrument handles sample configuration.



* 1 to 999999 = The number of samples set when the **REF** is pressed.
0 = 5, 10, 20, 30, 40, 50, 60, 75, 100, 200, Free displays when **REF** is pressed.

DINI ARGEO Scales - Weighing systems

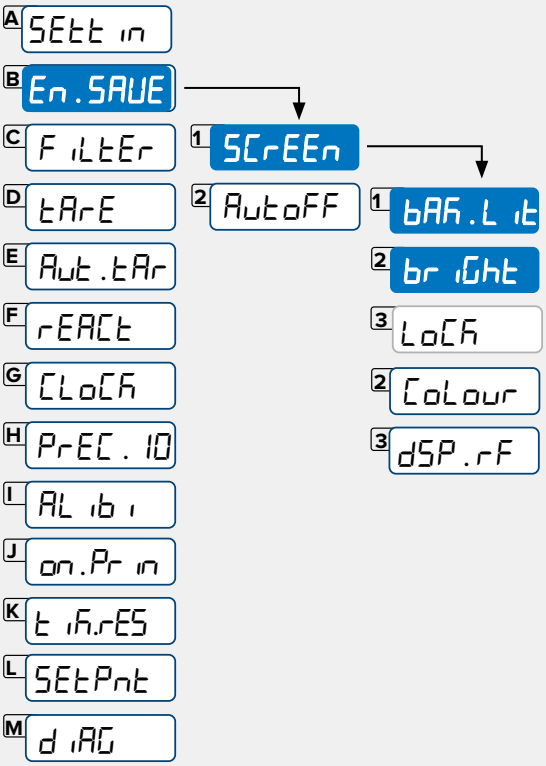
MENU

How to enter

F + OK

How to browse

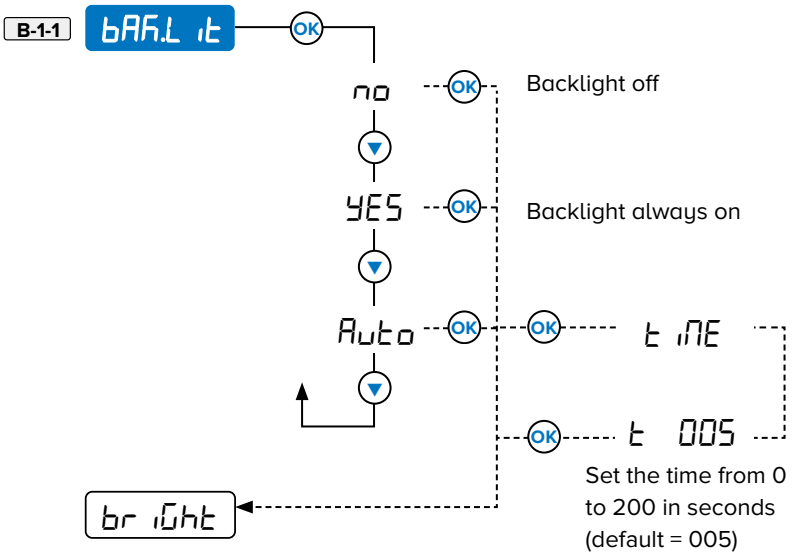
▲ = ▲
▼ = ▼
OK = OK
C = C



En.SAUE - ENERGY SAVE

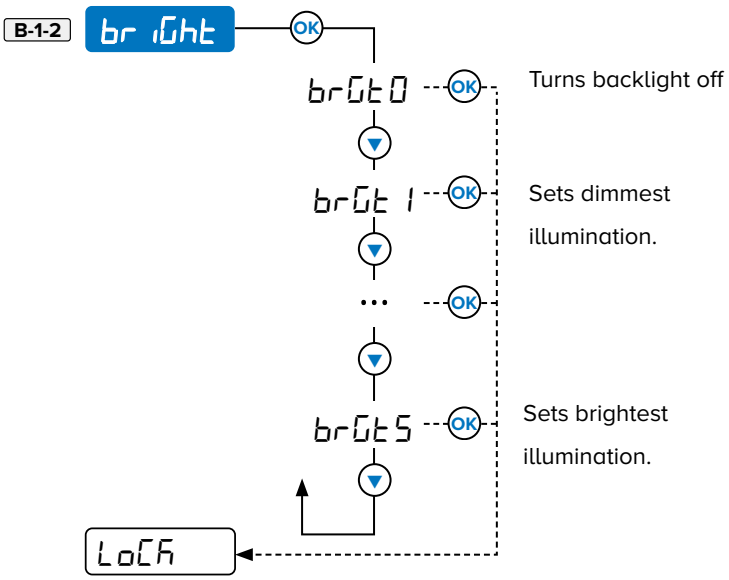
SCrEEn - ADJUSTING THE DISPLAY

bAK.Lit - BACKLIGHT (7 + F)



The backlight turns off after the set time of inactivity.

brIGht - BRIGHTNESS (F + ZERO)



DINI ARGEO Scales - Weighing systems

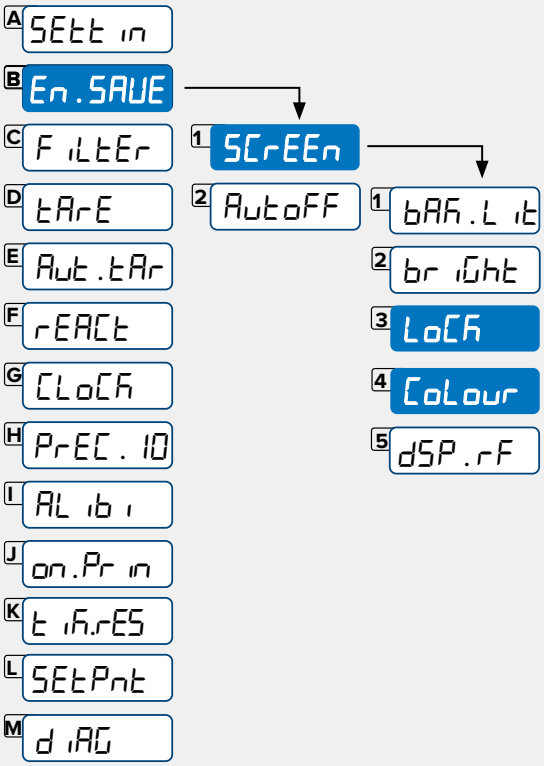
MENU

How to enter

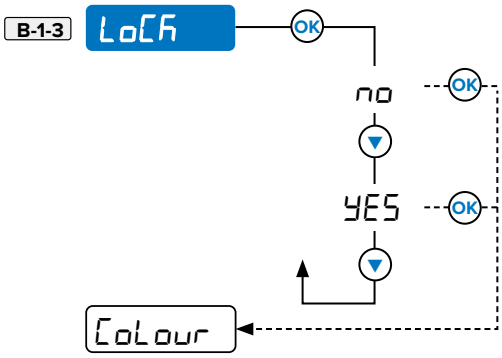
F + OK

How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C

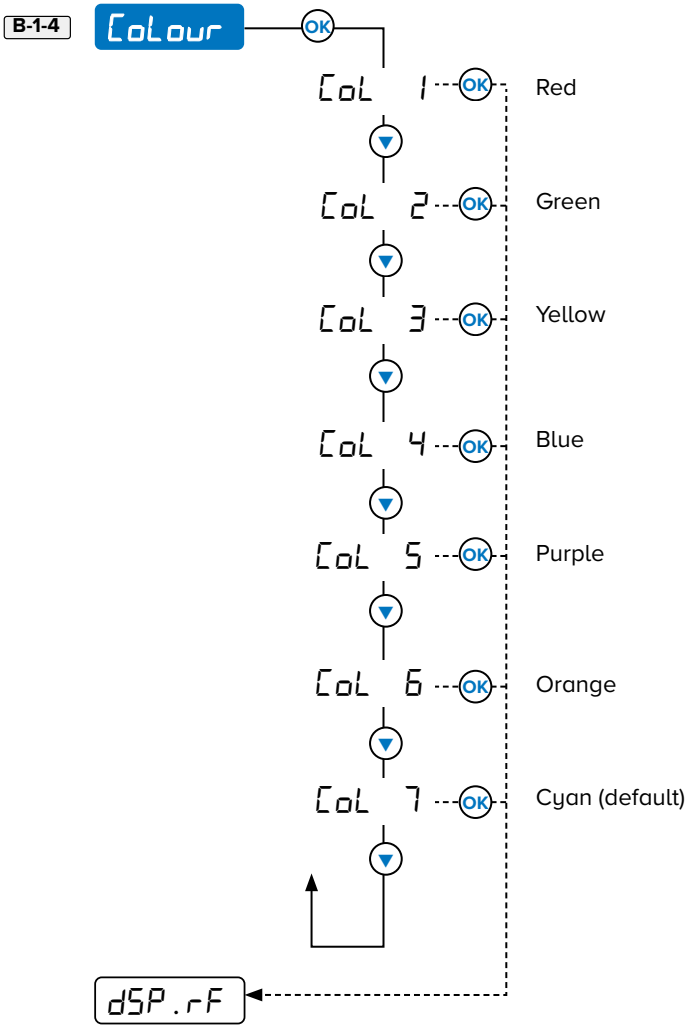


LoCK - DISPLAY LOCK (for manufacturer use)



CoLour - COLOUR

Configures the backlight to display a specific colour.



DINI ARGEO Scales - Weighing systems

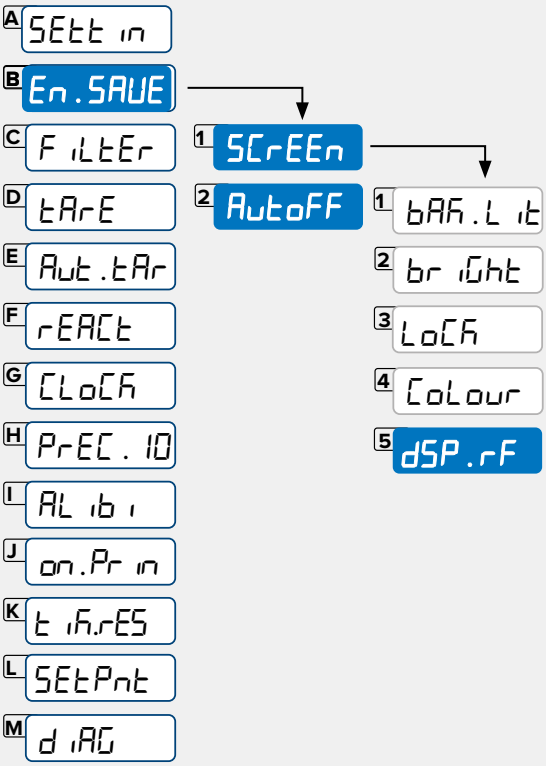
MENU

How to enter

F + OK

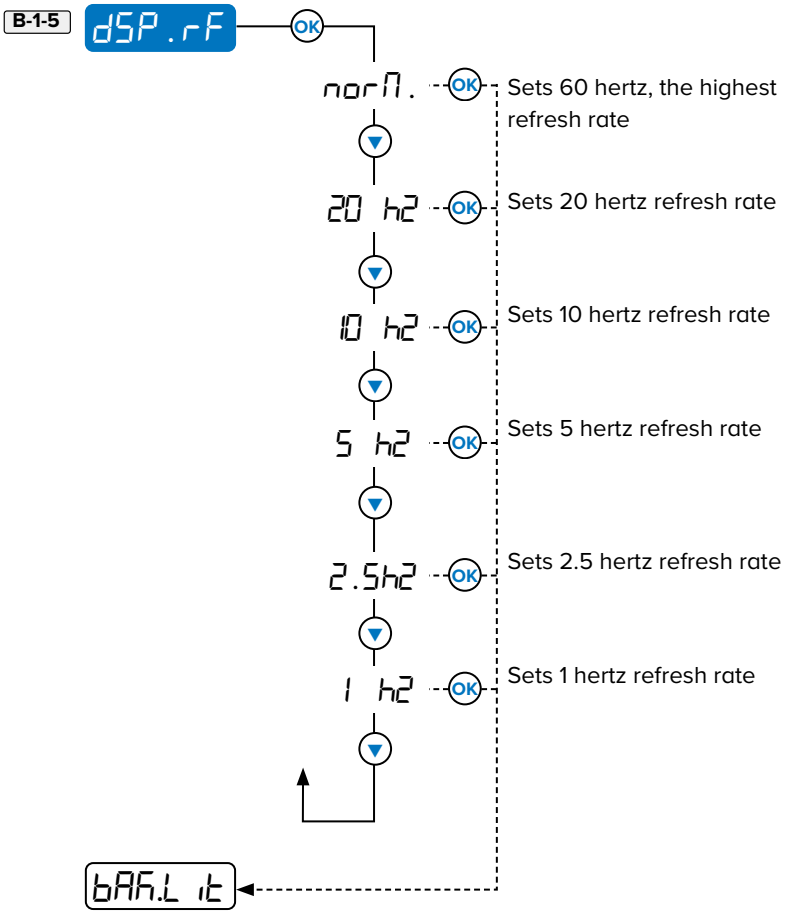
How to browse

▲ = ▲
▼ = ▼
OK = OK
C = C



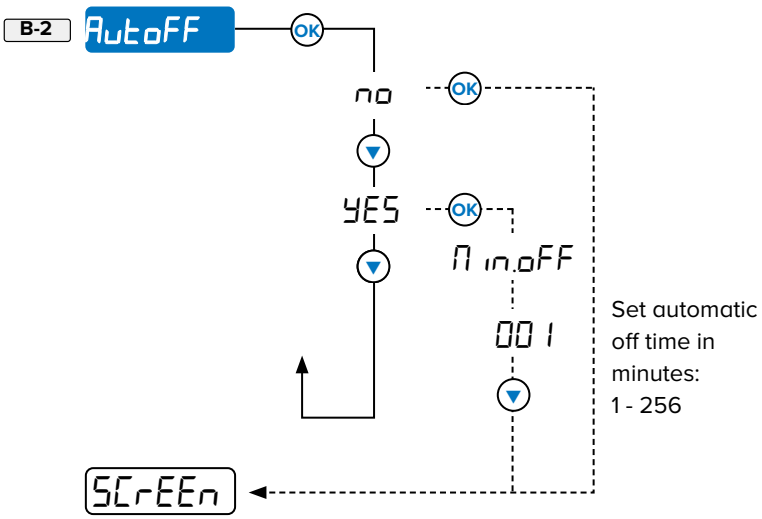
dSP.rF - DISPLAY REFRESH RATE

Configures the refresh rate of the display. Changing the refresh rate from the default parameter causes the display to update more slowly, and consequently changes the frequency when the screen characters refresh.



AutoFF - AUTOMATIC POWER OFF (13 + F)

Automatically turns off the DFWX at the configured inactivity time..



DINI ARGEO Scales - Weighing systems

MENU

How to enter

F + OK

How to browse

↑ = ▲
↓ = ▼
↵ = OK
← = C

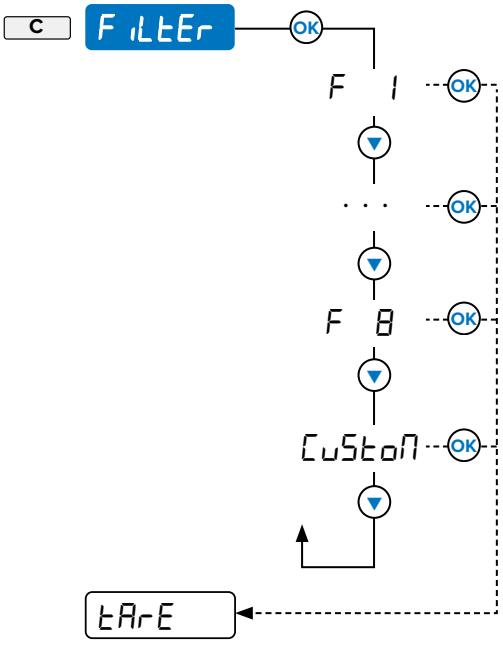
A SEtt in
B En.SAVE
C F iLtEr
D tArE
E Aut.tAr
F rEACt
G CLoCK
H PrEC. 10
I AL ib i
J on.Pr in
K t iM.rES
L SEtPnt
M d iAG

F iLtEr - WEIGHING FILTERS

Edits scale reactivity.
Useful in optimising weighing to your needs.

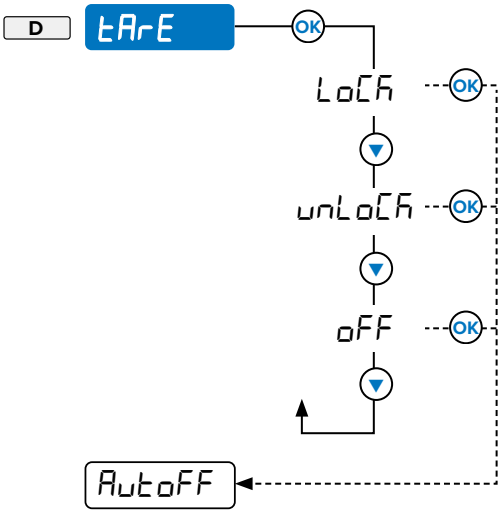
With the approved instrument, you can select only some of the filters listed below.

" I" represents smallest filtering level. Increasing the level increases the weight measuring speed. Perform several weighments while changing the level until the best compromise between reactivity and stability is obtained.



tArE - TARE (14 + F)

Configures how the tare operates.



The tare is saved. Manual deletion.

The tare automatically deleted when scale is unloaded.

Tare function is disabled.

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▲ = ▲
▼ = ▼
OK = OK
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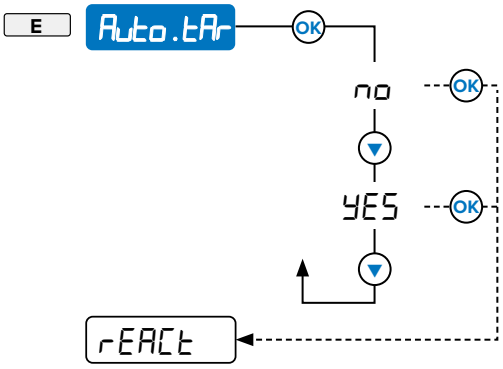
E Aut.tAr
F rEACt
G CLoCk
H PrEC. 10
I AL ib i
J on.Pr in
K t ih.rES
L SEtPnt
M diAG

Aut.tAr - AUTOMATIC TARE (15 + F)

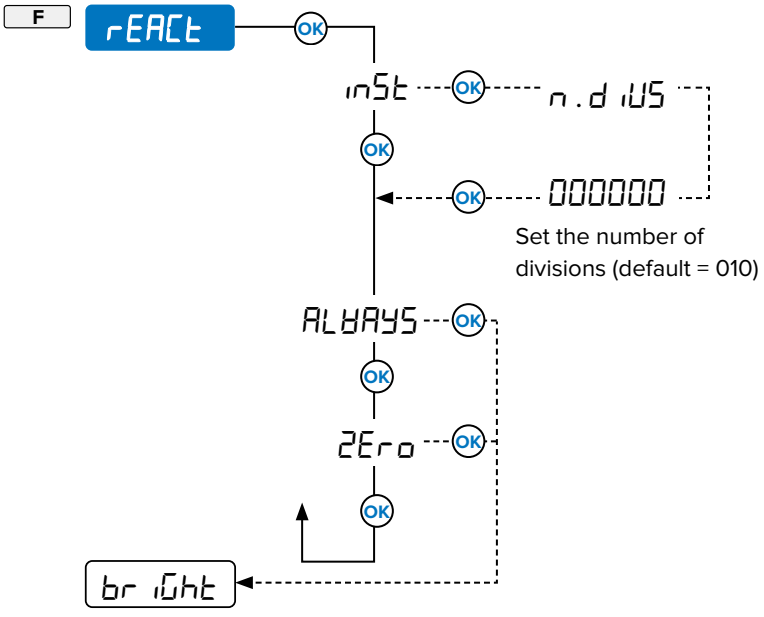
Tare automatically occurs when the weight is stable:

- If rEACt ▶ inSt ▶ n.div iUS is configured, the minimum tare must be equal or greater than the set divisions.
- If rEACt ▶ 2Ero is set, no minimum value is required.



rEACt - REACTIVATION (16 + F)

Reactivation of the print function. This function avoids accidental double execution of the same operation (printout or totalization).



rEACt parameter details:

2Ero = After unloading container weight must be zero.

inSt = After executing a function, it reactivates when the weight becomes unstable and moves more than the configured value of n.div iUS.

ALWAYS = Function always active (only available if Totalization is set as manual).

DINI ARGEO Scales - Weighing systems

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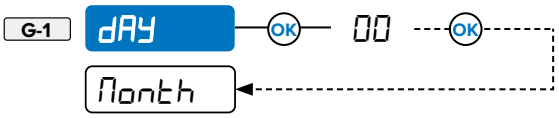
I AL ib 1
J on.Pr in
K t ih.rES
L SEtPnt
M d iAG

1 dAY
2 Month
3 YEAr
4 hour
5 n inutE

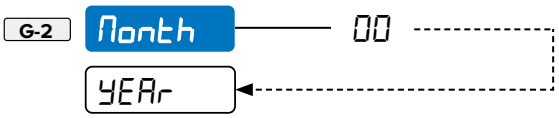
CLoCK - DATE AND TIME (8 + F)

Sets the indicator date and time.

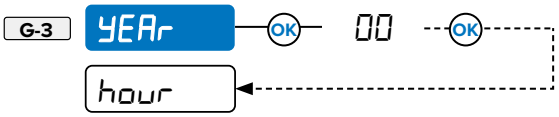
Day



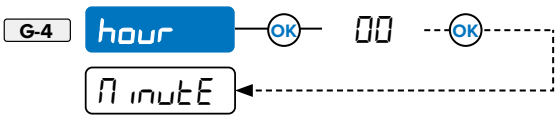
Month



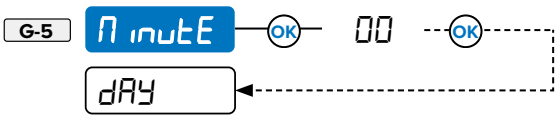
Year



Hour

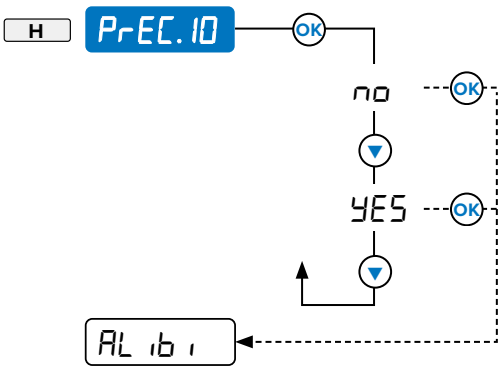


Minute



PrEC. 10 - HIGH RESOLUTION READING DIVISION (10 + F)

Displays the weight with ten times greater resolution



DINI ARGEO Scales - Weighing systems

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J on.Pr in
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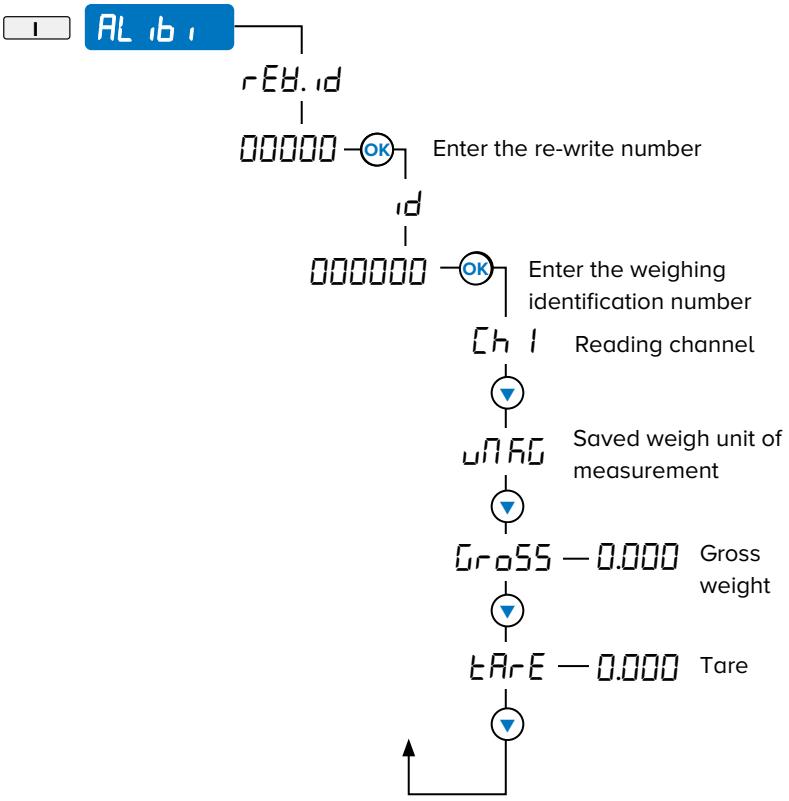
M diAG

AL ib i - ALIBI MEMORY READING

Visible only if optional Alibi and Clock boards are installed.

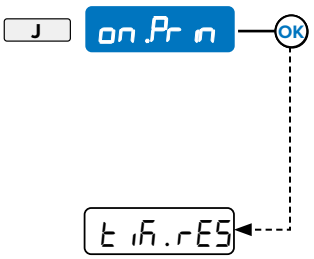
The weighing save ID code is expressed as follows: 00000 - 000000, for example 00001 - 000021.
The first value is the re-write number, the second value is the weighing identification number.



on.Pr in - Power On Printer

Turns printer on when it is directly connected to the indicator's power terminal block Vaux connector.

NOTE: The PoWEr.P parameter for the serial port must be set as Pwr.int (power internal) in the Technical Menu. See the DFWX Technical Manual for more information.



DINI ARGEO Scales - Weighing systems

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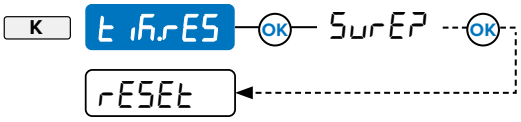
H PrEC. 10
I AL ib1
J on.Pr in
K t iK.rES
L SEtPnt
M diAG

t iK.rES - TICKET NUMBER RESET (11 + F)

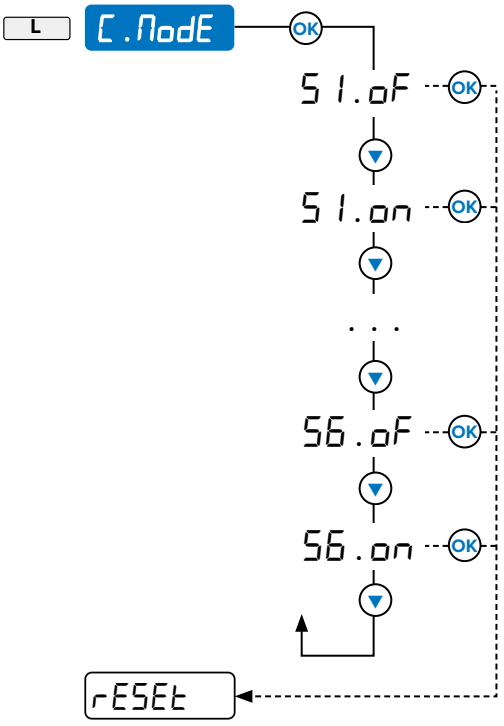
Resets the progressive ticket number.
NOTE: For more information about the ticket number, see the LAYout ▶ t iCKEt ***parameter in the DFWX Technical Manual.***



SEtPnt - SETPOINT (12 + F)

Setpoints can be optionally set if the Digital Input and Output board is installed. 6 setpoints are available, 1 for each output. Each setpoint has 2 configurable states, setpoint on (S1.on to S6.on) and setpoint off (S1.oFF to S6.oFF).

NOTE: The outputs must be set as either Gross or Net in order for the function to operate. For more information, see Technical Manual.



Enter weight for the setpoint.

NOTE: Setpoints operating in hysteresis when setpoint on and off parameters are configured. Setpoints can output to trigger off and on when a specified weight is reached. For example, Setpoint 1 could be configured to turn on when the weight reaches 2 kg and turn off when it reaches 1 kg.

DINI ARGEO Scales - Weighing systems

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G CLoCk
H PrEC. 10
I AL ib i
J on.Pr in
K t ih.rES
L SEtPnt
M d iAG

d iAG - DIAGNOSTICS

M → d iAG → OK

Reserved for manufacturer use.

FAQ

Frequently Asked Questions

PRINT

The scale does not print

- Another printout is already in progress (bUSY)
- Make sure there is a roll in the printer
- The printer does not switch on
- The weight is unstable (UnStAb)
- The net or gross weight is negative or is insufficient for printing (LoW)
- Underload or overload (------ o ------) (Un.oVEr)
- The scale was not loaded after the last printing (no.0.Un5)
- You are trying to print a non-approved weight

ACCUMULATION

The scale does not accumulate

- Make sure there is a roll in the printer
- The printer does not switch on
- The weight is unstable (UnStAb)
- The net or gross weight is negative (LoW)
- Underload o overload (------ o ------) (Un.oVEr)
- The scale was not unloaded after the last printing (no.0.Un5)
- The weight is insufficient for weighing (LoW)
  - less than the configured value in rEACt ▶ InSt ▶ n.d iU5 (see page 93)
  - less than “Min” for the approved products (shown on the measuring plate)

TARE

The scale does not tare

- The weight is unstable (UnStAb)
- The gross weight is negative (LoW)
- The weight is insufficient
- The weight exceeds the maximum capacity
- The tare function has been deactivated (see page)
- In the event of manual tare, the value exceeds the maximum capacity

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

- 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

The scale display switches off and displays a dot

- Stand-by mode is active: press a key to reactivate weighing.
- Energy saving mode is active: contact the dealer for further details.

The scale displays a permanent "2Ero" message

- The scale is unable to automatically reset the weight because it exceeds the maximum resettable weight at switch-on.
- Unload the scale 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 the active weighing filter (see page 92).
- If the support surface is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.

PIECE COUNTER

The scale does not carry out sampling

- The weight is unstable (Err .Not)
- The weight is insufficient, add more pieces and try again (Error)

ERROR MESSAGES

MESSAGE	DESCRIPTION	SOLUTION
buSY	Another printout is already in progress	Wait for the printout in progress to be finished and try again.
unStAb	The weight is unstable	Check the weighing filter (see page 92). If the support surface is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.
LoW	The net or gross weight is negative or insufficient for printing	Add weight and try again.
un.oUEr	Underload o overload (_____ o ⁻⁻⁻⁻⁻⁻)	Restore a valid weight condition. If the problem persists, contact customer service.
no.0.unS	The scale was not unloaded after the last printing	Completely unload the scale, making sure the →0← light comes on. Reload the weight and try again.
Err.Not	The weight is unstable	Wait for stability (the ~ light) and try again.
Error	In piece counting mode, the weight is insufficient for proper sampling.	Add more pieces and try again.

NOTES

This publication, or portions thereof, may not be duplicated without written permission from the Manufacturer. All information contained in this manual is based on the data available at the time of its publication; the Manufacturer reserves the right to make changes to its products at any time without notice and without incurring any penalty. We therefore recommend that you always check for any updates.

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

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

DINI ARGEO
Scales - Weighing systems

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Stamp of the authorized service center

The information in this document is approximate and can be subject to variations without prior notice by Dini Argeo, with respect of the norms in force. The official technical data is available in the updated version on the **www.diniargeo.com** website or by contacting the Dini Argeo Customer Service.

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Rev. A 05.3.2025