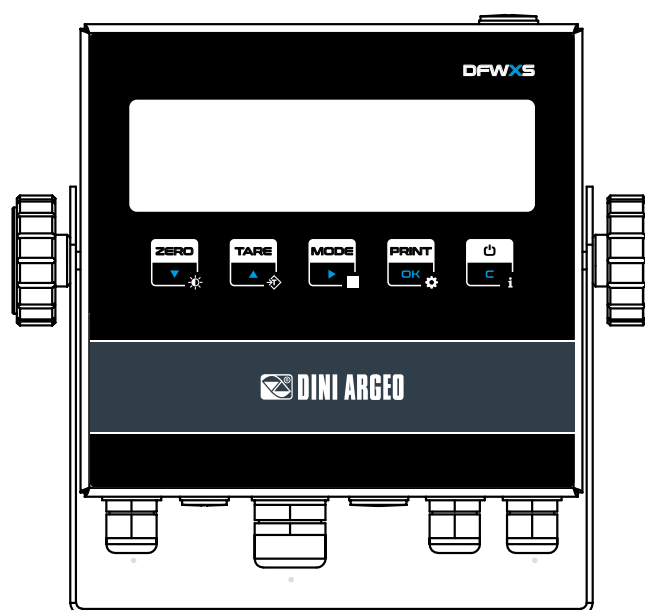


DFWXS SERIES

V 1.12

USER MANUAL

ENGLISH



Manual_DFWXS_V1

Copyright

© Dini Argeo. All rights reserved.

Dini Argeo® is a registered trademark.

Dini Argeo owns the copyright for the contents of this document (including artwork, illustrations, photographs, and written material). You may not copy, reproduce, modify, republish, or distribute any material from this document without permission.

All other brand or product names within this publication are trademarks or registered trademarks of their respective companies.

Dini Argeo is a Rice Lake Weighing Systems Company.

INTRODUCTION	8
WARNING	8
CLEANING	9
INSTALLATION	10
INSTALLATION	11
POWER SUPPLY VIA MAINS	11
POWER SUPPLY VIA BATTERY	11
POWER ON	12
POWER OFF	12
SAVING BATTERY POWER	12
AUTOMATIC POWER OFF	12
DISPLAY AND KEYBOARD	13
DISPLAY	14
KEYPAD	16
FUNCTION MODES	18
REMOTE CONTROL	19
WEIGHING FUNCTIONS	23
ZERO	24
TARE	25
PRINTING	30
HIGH RESOLUTION	32
SETTING DATE AND TIME	33
ALIBI MEMORY	34
SETPOINT CONFIGURATION	36
CONFIGURE BACKLIGHT	37
AUTOMATIC POWER OFF	39
NET AND GROSS FUNCTION	40
INTRODUCTION	41
NET AND GROSS CONVERSION FUNCTION OPERATION	41
EXCHANGE BETWEEN NET WEIGHT AND GROSS WEIGHT	42

TOTALIZATION & FORMULATION MODES	43
INTRODUCTION	44
HOW TO ENABLE TOTALIZATION MODE	44
TOTALIZATION RULES	44
TOTALIZATION SETUP AND OPERATION	47
TOTALIZATION PROCESS	49
COUNTING MODE	50
INTRODUCTION	51
HOW TO ENABLE COUNTING MODE	51
HOW TO SAMPLE	51
HOW TO SET AVERAGE PIECE WEIGHT (APW)	52
SWITCH BETWEEN PCS AND WEIGHT	52
CHECK WEIGH MODE	53
OVERVIEW	54
HOW TO ENABLE CHECK MODE	54
CHECK MODE TYPES	54
ACCESS CHECK PARAMETERS	55
HOW TO SET A TARGET	56
GROSS, NET, NET NEGATIVE	56
HOW TO SAMPLE A NET NEGATIVE FROM THE SCALE	57
HOW TO SAMPLE A ZERO TARGET FROM THE SCALE	58
HOW TO SAMPLE PIECES (PCS)	59
MIN & MAX THRESHOLDS	60
ABOUT CHECK WEIGH MODE ANNUNCIATORS	61
CHECK WEIGH MODE CONFIGURED	61
HOW TO USE THE CHECK WEIGH MODE	62
ADDITIONAL SETTINGS	65
PERCENTAGE WEIGHING	70
Enable Percentage Weighing	71
Configure Percentage Sample	72
Convert Percentage to Weight	72
Percentage Metering	73

HOLD FUNCTION	75
HOLD	76
ENABLE HOLD FUNCTION	76
HOLD OPERATION	77
RESET HOLD	78
ANIMAL WEIGHING	79
INTRODUCTION	80
ENABLE ANIMAL WEIGHING	80
ANIMAL WEIGHING	81
ANIMAL WEIGHING COMBINED WITH HOLD FUNCTION	82
WEIGHT CONVERSION	83
INTRODUCTION	84
WEIGHT CONVERSION FUNCTION	84
PEAK FUNCTION	86
PEAK	87
ENABLE PEAK FUNCTION	87
METROLOGICAL INFORMATION	90
INTRODUCTION	91
SERIAL NUMBER	91
METROLOGICAL FIRMWARE	91
INFORMATION	91
IDENTIFICATION OF METROLOGICAL SOFTWARE	92
CONFIGURATION MENU	93
SEtE in - SETTINGS	96
ChEEr - CHECK WEIGH MODE	96
tyPE - TYPE OF CHECK WEIGH MODE	96
ModE - CHECK MODE	97
Chr.MSG - CHECK MESSAGE	97
bEEP - CHECK WEIGH MODE BEEP	98
thrESh - CHECK WEIGH MODE THRESHOLD	98
UndEr - COLOR UNDER	99
OK - COLOR OK	99

<i>CoUEr</i> - COLOR OVER	99
<i>oFUnS</i> - OK UNSTABLE	99
<i>tH.tol</i> - TRANSMISSION IN TOLERANCE	100
<i>Prn.tol</i> - PRINT TOLERANCE	100
<i>totRL</i> - TOTALIZATION	101
<i>tot.tYP</i> - TOTALIZATION TYPE	101
<i>Min.Wgt</i> - MINIMUM WEIGHT	101
<i>MAH.tot</i> - MAXIMUM TOTALIZATION	101
<i>tot.Mod</i> - TOTALIZATION MODE	102
<i>n.WE.Wh</i> - SHOW TOTALIZATION WEIGH NUMBER	102
<i>FrZ.tot</i> - FREEZE TOTAL	102
<i>Wait.St</i> - WAIT STABILITY	103
<i>CPStAr</i> - COMPULSORY TARE	103
<i>Count</i> - COUNTING MODE	104
<i>Unit.APY</i> - UNIT OF MEASURE AVERAGE PIECE COUNT WEIGHT	104
<i>Wait.t</i> - WAIT TIME SAMPLING	104
<i>PERK</i> - PEAK	105
<i>nEhton</i> - NEWTON UNIT OF MEASURE	105
<i>dEc.Z</i> - DECIMAL CONFIGURATION NEWTONS (ONLY IF NEWTON >> YES)	105
<i>dW.Z</i> - DIVISION CONFIGURATION NEWTONS (ONLY IF NEWTON >> YES)	106
<i>CoUEr</i> - Conversion	107
<i>dEc.Z</i> - DECIMAL QUANTITY FOR CONVERSION	107
<i>dW.Z</i> - DIVISIONS FOR CONVERSION	108
<i>Unit</i> - UNITS OF MEASURE FOR CONVERSION	108
<i>PERC</i> - Percentage	109
<i>Wait.t</i> - WAIT TIME SAMPLING	109
<i>En.SAVE</i> - ENERGY SAVE	110
<i>ScREEN</i> - ADJUSTING THE DISPLAY	110
<i>Colour</i> - COLOUR	111
<i>dSP.rF</i> - DISPLAY REFRESH RATE	112
<i>AutoFF</i> - AUTOMATIC POWER OFF	112

TARE - TARE	119
Auto. TARE - AUTOMATIC TARE	119
CLock - DATE AND TIME	120
PREC. 10 - HIGH RESOLUTION READING DIVISION	120
ALibi - ALIBI MEMORY READING	121
TICKET RESET - TICKET NUMBER RESET	122
SEtPnt - SETPOINT	122
diAG - DIAGNOSTICS	123
FAQ	124
PRINT	125
ACCUMULATION	125
TARE	125
WEIGHING	126
PIECE COUNTER	126
ERROR MESSAGES	127

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 jeopardize 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 DFWXS, see the DFWXS 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 wheeled 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 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 DFWXS 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:

- **Disconnect power cable from outlet and protect plug.**
- **Do not use solvents, alcohol-based or harsh chemical cleaners.**
- **Do not use abrasive brushes (for example, steel pads, wire brushes, scrapers)**
- **Tighten all cable glands.**
- **Ensure the plugs are in cable glands that are not used.**
- **Periodically check the integrity of all seals and grommets.**

INSTALLATION

INSTALLATION	11
POWER SUPPLY VIA MAINS	11
POWER SUPPLY VIA BATTERY	11
POWER ON	12
POWER OFF	12
SAVING BATTERY POWER	12
AUTOMATIC POWER OFF	12

INSTALLATION

See DFWXS Technical manual for wiring and installation information.



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

POWER SUPPLY VIA MAINS

Every DFWXS 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 DFWXS models (see DFWXS Technical manual).

Internal battery charge level indicator



Charged battery



Low battery

The *LoB . bAtE* message precedes automatic instrument power off.

Battery charging indicator

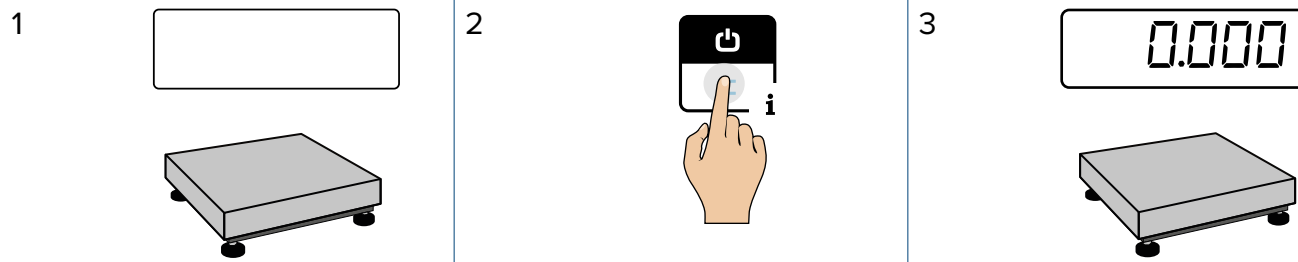


NOTES:

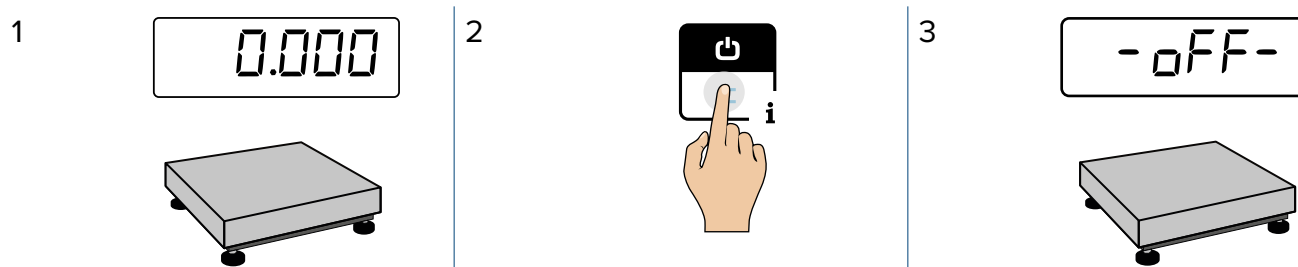


- Recharge the battery when the indicator displays 1 segment.*
- The battery recharges in approximately 6 hours.*
- The battery charging indicator only displays if the indicator is powered on.*
- If the indicator will not be used, recharge the battery once every three months.*

POWER ON



POWER OFF



NOTE: A DIP switch configuration will cause the DFWXS 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 112).

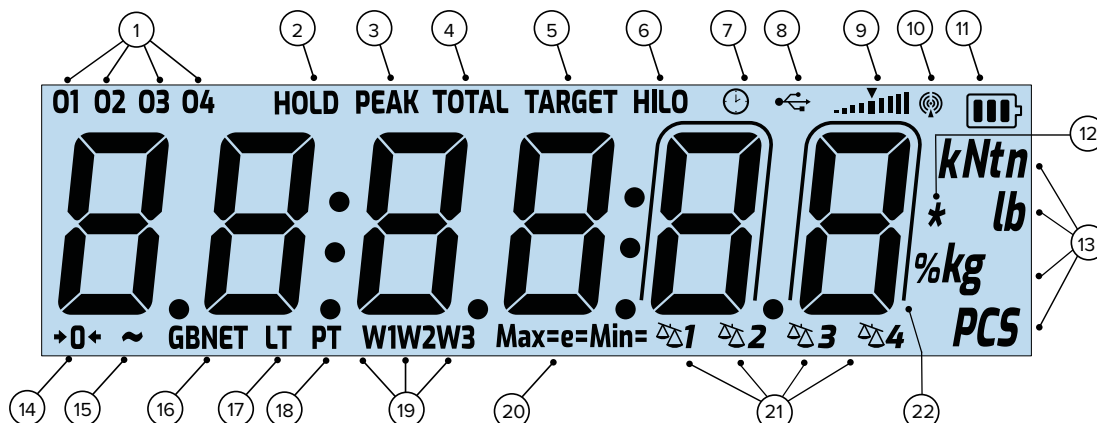
AUTOMATIC POWER OFF

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* configuration, (see *En.SAVE* on page 103).

DISPLAY AND KEYBOARD

DISPLAY	14
KEYPAD	16
REMOTE CONTROL	18

DISPLAY



NUMBER	SYMBOL	DESCRIPTION
1	01 02 03 04	Displays the active digital output.
2	HOLD	Indicates that Hold mode is activated.
3	PEAK	Indicates that Peak mode is activated.
4	TOTAL	Indicates that Totalization mode is active and at least one weight is included.
5	TARGET	When Check Weigh mode is active, the target is configured and stored in memory.
6	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.
7		Active during the configuration of the date and time.
8		Active when a USB connection is active.
9		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.
10		Displays when Wi-Fi or WPAN is connected.
11		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
12	*	Displays when a key is pressed. In some operating modes, it indicates that a specific function is active.

NUMBER	SYMBOL	DESCRIPTION
13	kN ... PCS	Represents a unit of measurement: kN = kn (kilonewtons) N = N (newton) t = T (tonnes) lb = lb (pounds) % = Percent (threshold) g = g (grams) kg = kg (kilograms) PCS = Pieces
14	→0←	The scale is unloaded and at zero (gross).
15	~	The weight is unstable.
16	GBNET	GB = The weight displayed is Gross/Brutto/Brut NET = The weight displayed is net. There is a saved tare.
17	LT	A locked tare is active. <i>NOTE: Not visible when set to Unlocked.</i>
18	PT	A preset tare (manual tare) is active.
19	W1 W2 W3	Displays the active range of weighing.
20	Max= Min= e=	Max= Maximum Capacity Min= Maximum Capacity e= Divisions
21	⚖1 ... ⚖4	Displays which scale is active.
22		The weight is displayed in high resolution.

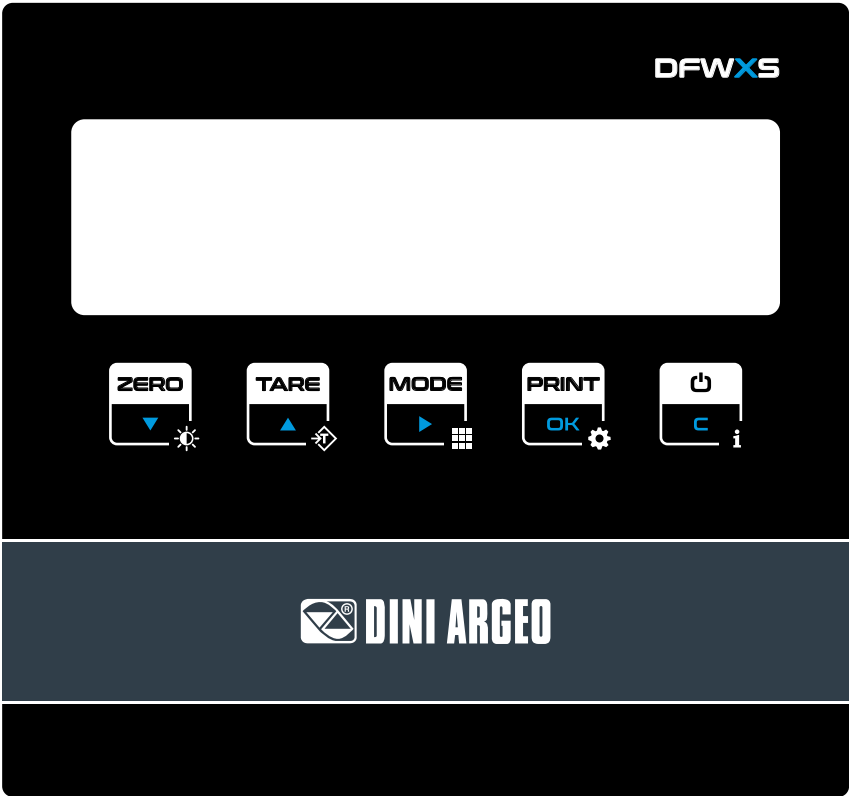
LETTERS:

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	i	J	k	L	M	n	O	P	q	r	S	t	u	V	W	X	Y	Z

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: Zeros the weight on the scale within 2% of full scale capacity. • Long Press: Opens brightness configuration (see page 112). • Parameter/Menu: Navigates down in menus, parameters or parameter values.
	• 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. • Long Press: Sets the preset tare (see page 25). • Parameter/Menu: Navigates up in menus, parameters or parameter values.
	• Short Press: Performs function mode action. • Long Press: ■ Press for 2 seconds to set function mode parameter (varies depending on function mode). ■ Press for 4 seconds to enter Function mode menu (see page 40). ■ Press for 10 seconds enable/disable Function mode menu (see page 40). • Long Press: Opens Function . • Parameter/Menu: Navigates right in numeric fields.

KEY	DESCRIPTION
	• Short Press: Activates print function. • Long Press: ■ Press for 2 seconds for function mode configuration (varies depending on function mode). ■ Press for 4 seconds to open user indicator configuration (see page 95). ■ Press for 10 to enable/disable the User menu (see page 95). • Parameter/Menu: ■ Confirms the selected menu/parameter. ■ At save prompt, confirms saving.
	• Short Press: Clears tare or peak • Long Press: ■ Press for 2 seconds to power indicator off or on. ■ Press for 4 seconds to access indicator information (see page 93) • Parameter/Menu: ■ Returns to previous menu without saving. ■ At save prompt, cancels without saving.

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- 5).



NOTE: See DFWXS Technical Manual for rF- 5 parameter information.

Remote control modes

KEYS	SINGLE FUNCTION MODE (rF- 1)	MULTI-FUNCTION MODE (rF- 5)	
		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

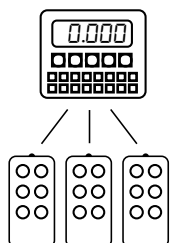
The following are shortcuts accessed using the FN button and other buttons on the remote.

KEYS	FN Shortcuts (rF- 5)
ZERO	FN + ZERO = Sets the indicator brightness (see page 112)
TARE	FN + TARE = Sets the preset tare (see page 25)
MODE	FN + MODE = Sets conversion (see page 84)
PRINT	FN + PRINT = Opens indicator configuration (see page 95)
C	FN + C = Opens indicator information (see page 93)

Additional radio frequency remote control configurations

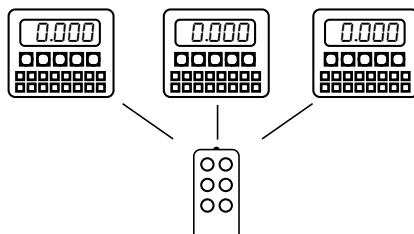
Multi-remote control

Useful when several operators are using the same scale (up to 3).



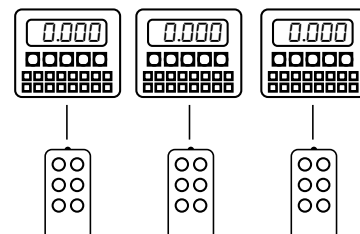
Broadcast

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



Ad hoc

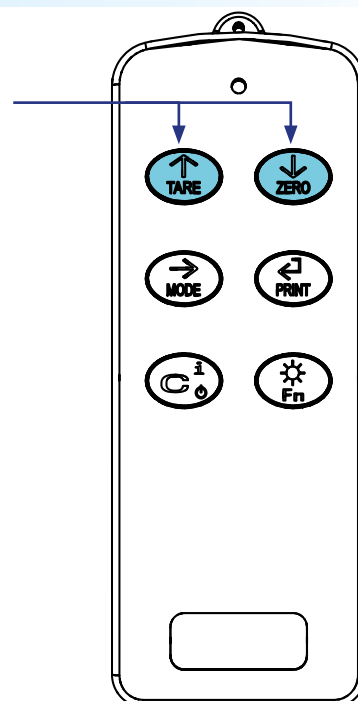
Useful when there are several scales installed in the same area, each managed by its own remote control.



The remote control requires advanced configuration.

Remote Control pairing

1. On the remote control, press TARE and ZERO keys simultaneously for 3 seconds to enter pairing mode.
2. The instrument displays *Auto .rd?*
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.

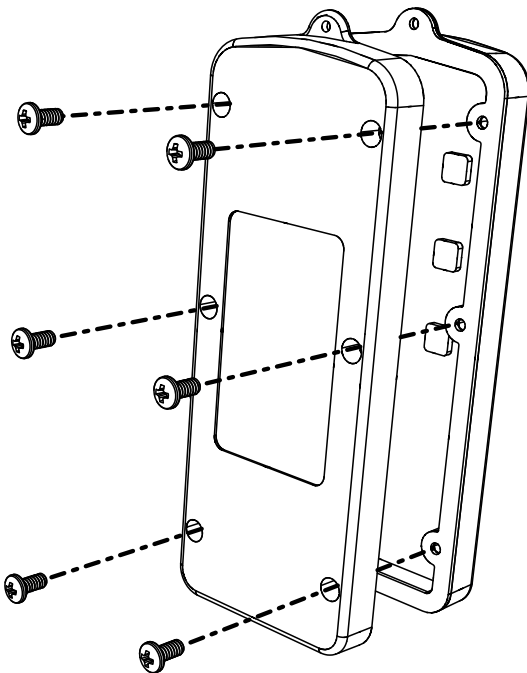
Important: All included batteries included intended for sale in the EU market are classified as “Portable Batteries for General Use” and comply with European Battery Regulation (EU) 2023/1542.

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

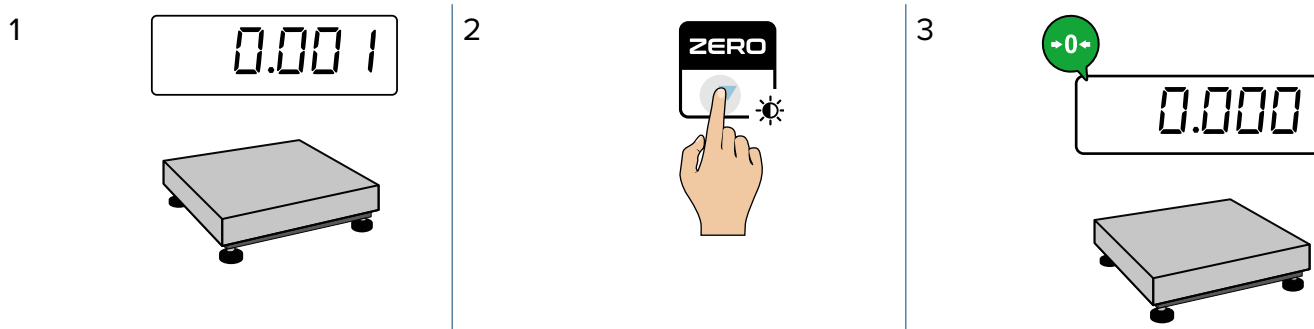
ZERO	23
TARE	24
PRINTING	29
HIGH RESOLUTION	32
SETTING DATE AND TIME	33
ALIBI MEMORY	34
SETPOINT CONFIGURATION	36
CONFIGURE BACKLIGHT	37
AUTOMATIC POWER OFF	39
FUNCTION MODES	40

ZERO

The Zero key is one of the most frequently used indicator keys. It manually resets the current stable weight to a maximum of $\pm 2\%$ 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 DFWXS 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.



Automatic Zero During Scale Initialization

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

Not Approved scale (Not legal for trade)

- At initialization a stable weight is within $\pm 10\%$ of the total scale capacity is detected and then zeroed.
- If the weight is not within $\pm 10\%$ 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 $\pm 10\%$ 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.Zero` parameter in the DFWXS 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.Trk` parameter in the DFWXS 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 weightment.
- Tare acquired automatically by the scale. Tare is only acquired if there is no other saved tare value.
- Tare function disabled.

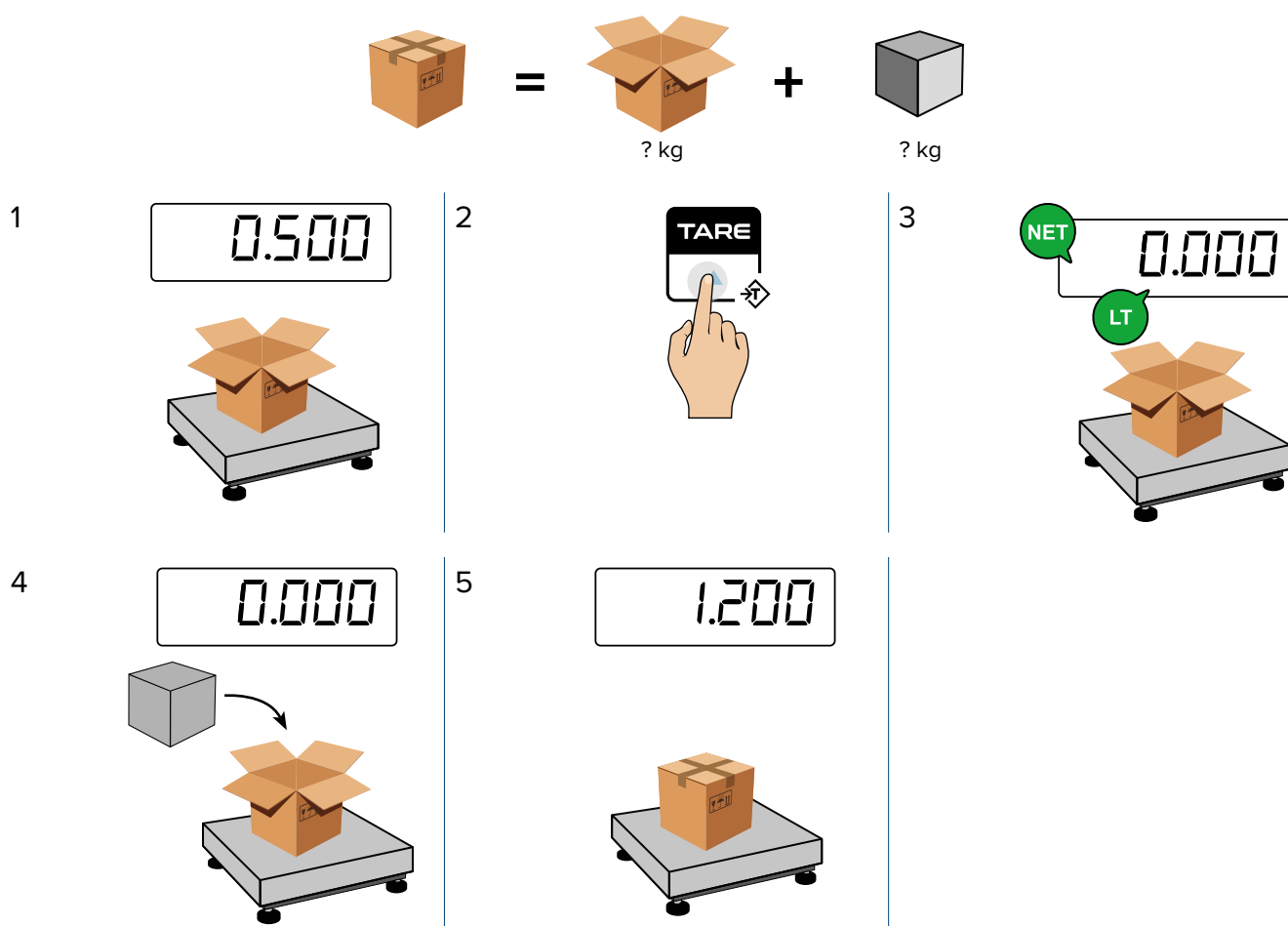
To customize the tare function, enter the *LAR-E* section in the configuration menu (see page 121 and 121) or through shortcuts.

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 it is not possible to set *LoFF/unLoFF* (see page 27).
- 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.



Preset Tare

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



Set Preset Tare with Keys

1

0.000

2

TARE

2 Sec

3

-Pt-

4

0.500

Enter value

5

PRINT

6

NET

-0.500

LT

PT

7

1.200

0.500 kg

1.200 kg

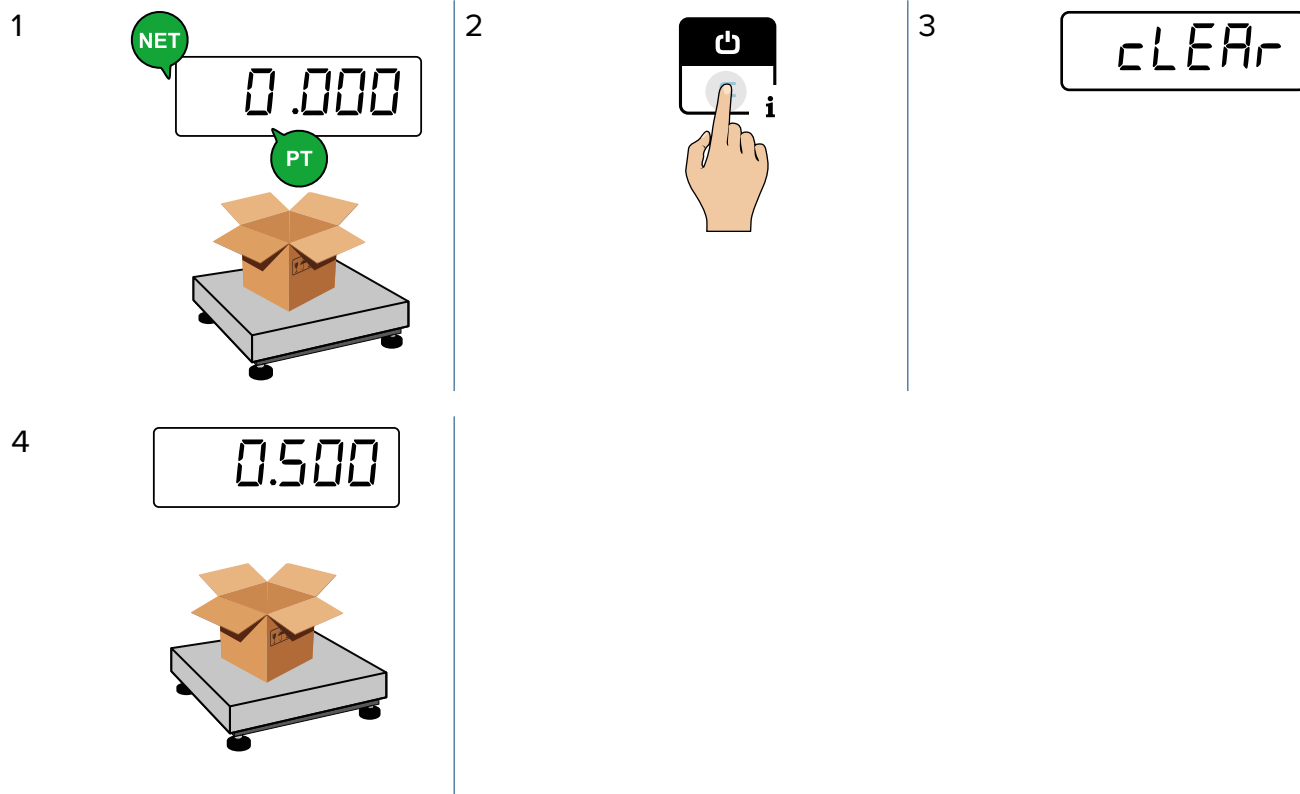
DFWXS

25

DINI AR GEO
Scales - Weighing systems

Tare/Preset Tare Deletion

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 **☐**.



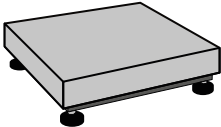
NOTE: The tare can also be removed with an unlocked **LRrE** (see page 27).

If the automatic tare is active and a weight is on the scale, the scale must be unloaded before cancelling the tare (see page 26).

Automatic Tare Deletion or Disable Tare

1

0.000



2

PRINT



4 sec



3

Conf IG

4

SEt in

...

LArE

Set the parameter









5

PRINT





6

oFF

LoCk

unLoCk

Set the parameter







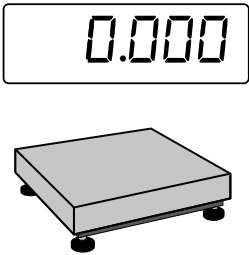
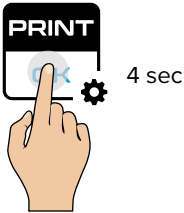
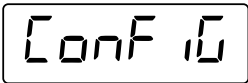
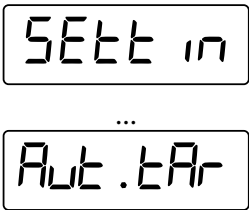
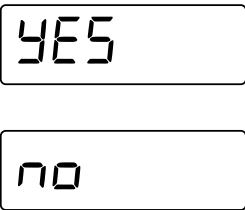


7

Exit User menu and save (see page 95).

LoCk = Automatic deletion disabled
unLoCk = Automatic deletion enabled: the tare will be deleted automatically when unloaded
oFF = All tare functions disabled

Automatic Tare

1		2		3	
4	 Set the parameter 	5		6	 Set the parameter 
7	Exit User menu and save (see page 95).				

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

NOTES:

1. After an automatic tare occurs, semi-automatic tare are then available

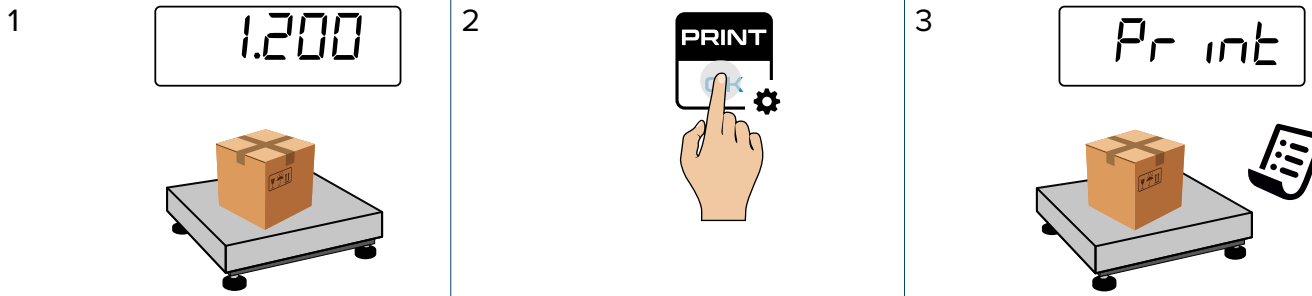
Tare Unlock and Automatic Tare can be used together to have the tare activated and cancelled just adding / removing weight on the scale. For example:

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)

PRINTING

Printout



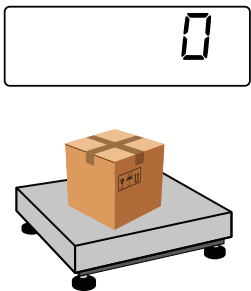
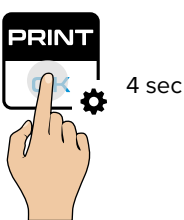
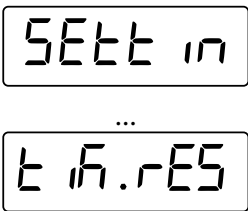
Printout rules:

- If Reactivation is configured as **Zero** (see Technical Manual), the measured weight must return to zero before the indicator is able to print.
- If Reactivation is configured as **Unit** (see Technical Manual), the measured weight must be different from the configured number of division before the indicator is able to print.
- Negative weights are not printable.
- Weights must be stable.



NOTE: The quantity of printout copies for a single ticket is set with the **COPIES** parameter in the **LAYOUT** menu (see the **DFWXS Technical Manual** for more information).

Reset Ticket Progressive

- 1 
- 2 
- 3 
Set the parameter

- 4 
- 5 
Set the parameter

- 6 Exit User menu and save (see page 95).



NOTE: When totalizing a weight automatically or by pressing **OK**, the indicator automatically prints the ticket (see 48). In addition, the totalization total prints when **OK** is held for 2 seconds and the print command is executed (see page 50). 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

MARIO ROSSI SRL
VIA DELL'INDUSTRIA, 20
41042 - FIORANO (MO) - ITALY
WWW.MARIOROSSI.IT

WEIGH N. 1

GROSS 15.000 kg
TARE 3.000 kg
NET 12.000 kg

TICKET N. 54321
05/08/2015 15:39:03



Heading

Progressive weighing number (for accumulation modes)

Weight data

Progressive ticket number

Date and time

Bar code 39

Example of packing list

MARIO ROSSI SRL
VIA DELL'INDUSTRIA, 20
41042 - FIORANO (MO) - ITALY
WWW.MARIOROSSI.IT

WEIGH N. 0001
NET 1.000 kg

WEIGH N. 0002
NET 1.000 kg

WEIGH N. 0003
NET 1.000 kg

WEIGH N. 0004
NET 1.000 kg

TOTAL WEIGHS 0004
TOTAL NET 4.000 kg
TICKET NR. 12345
09/05/06 15:39:03

HIGH RESOLUTION

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 backlight 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 **MODE** 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.



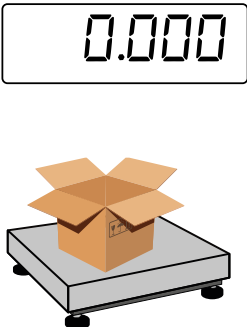
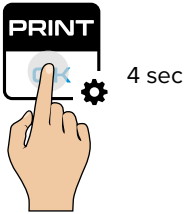
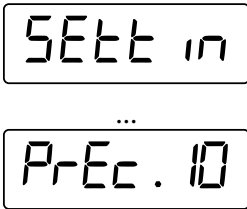
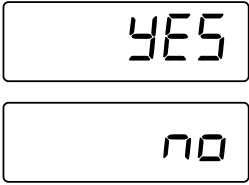
NOTE: If scale is approved (legal for trade):

- Increased resolution (X10) stays for 5 seconds and then automatically disappears.
- Printouts are disabled



NOTE: When enabled, all function modes are disabled.

Configure Increased Resolution

1 	2 	3  Set the parameter 
4  Set the parameter 	5 Exit User menu and save (see page 95).	

SETTING DATE AND TIME

1	0.000	2	PRINT 4 sec	3	Conf IG
4	Sett in ... CLOCK Set the parameter	5	PRINT	6	day
7	20 Set the parameter	8	PRINT	9	Month
10	11 Set the parameter	11	PRINT	12	year
13	24 Set the parameter	14	PRINT	15	hour
16	10 Set the parameter	17	PRINT	18	minute

19 

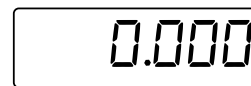
Set the parameter



20



21



22 Exit User menu and save (see page 95).

NOTES:

This function requires a real-time clock (included with Alibi).

For information about setting the date and time, see page 122.



The format of the date and time varies depending on configuration in the Technical Menu. For more information, see the DFWXS Technical Manual (t.n.FoRn and dt.FoRn 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 its main function, storing/tracing weight data before sending it to a PC or Printer. When Alibi memory is installed, it automatically activates.

The weight ID code is expressed as Rewrite number - Weightment number. The rewrite number is a 5-digit number that ranges from 0 to 00255, and indicates the number of complete rewrites of the alibi memory. The weightment number is a 6-digit number that ranges from 0 to 131071, and indicates the weightment number in the current alibi memory rewrite. When a weightment is stored, the weightment ID number is incremented by 000001, and when it reaches the value 131071, it restarts from 000000 and the rewrite number increments by 00001.

For example: 00001 - 000021.

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

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



NOTE: For information about ALIBI parameters, see page 123.

Weighment Storage

A weighment is stored when either occurs:

- When the PID serial storage serial command is received.
- After the **PRINT** button is 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 **PRINT** button is pressed.



If the weight is not valid, “NO ALIBI” is printed.



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

Weighment Reading

It is possible to read the weighments in the Configuration menu via the *ALIBI* parameter with the Alibi ID number. For information, see page **120**.

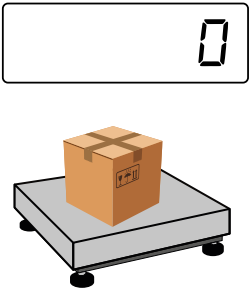
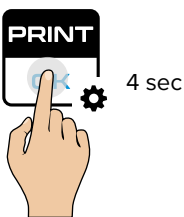
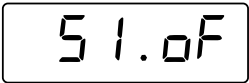
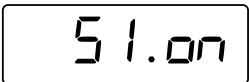
SETPOINT CONFIGURATION

Up to 6 setpoints can be optionally set if the Digital Input and Output board is installed. Each setpoint has two states, setpoint on (5 l.on - 56.on) and setpoint off (5 l.oFF - 56.oFF). For more information, see page 124.

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 |  <p style="text-align: center; margin-top: 5px;">Set the parameter</p>  |
| 4 |  | 5 |  | 6 |  <p style="text-align: center; margin-top: 5px;">Enter the weight that turns off the setpoint</p>  |
| 7 |  | 8 |  | 9 |  <p style="text-align: center; margin-top: 5px;">Enter the weight that turns on the setpoint</p>  |
| 10 | Repeat configuration for remaining setpoints. | | 11 | Exit User menu and save (see page 95). | |

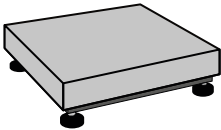
CONFIGURE BACKLIGHT

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

0.000



2

PRINT



4 sec

3

Conf IG

4

SEt t in

...

bAt .L it

Set the parameter







5

PRINT



6

YES

no

Auto

Set the parameter







7

Optional for Auto parameter

t 005

Set the parameter







8

Exit User menu and save (see page 95).

DFWXS

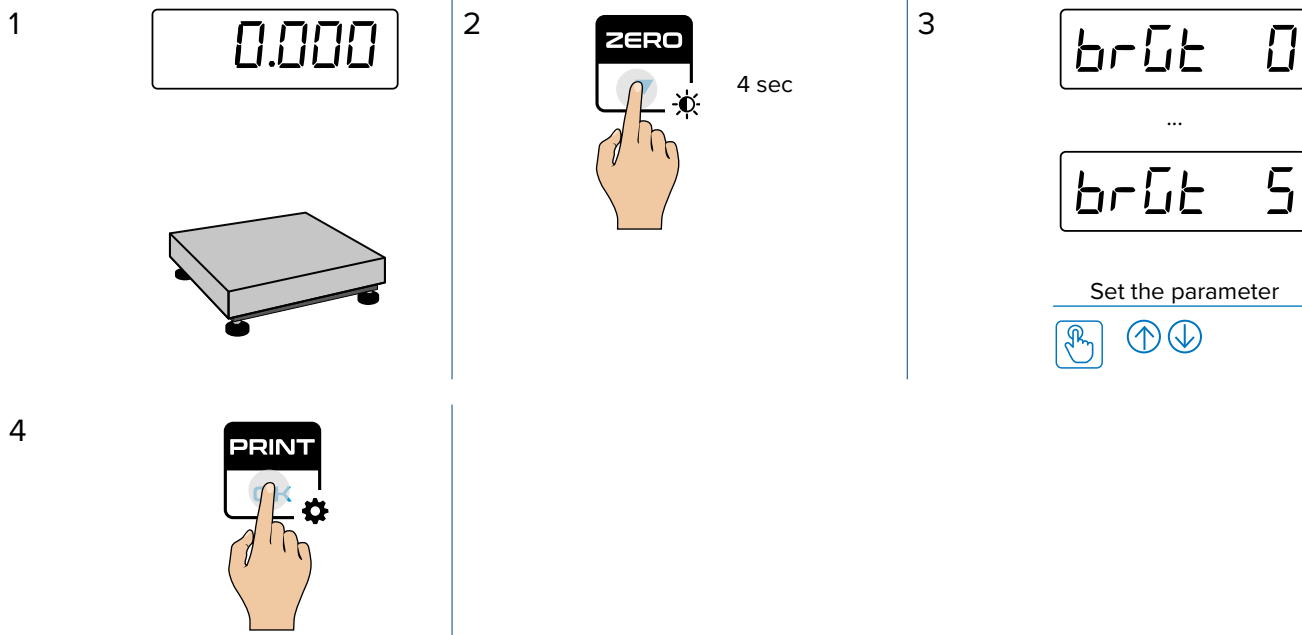


37

DINI ARGO

Scales - Weighing systems

Backlight Brightness

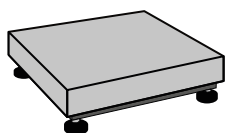
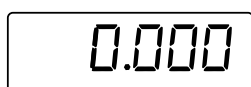


NOTE: For information about brGt parameters, see page 112.

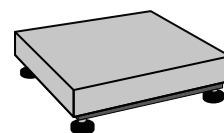
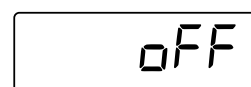
AUTOMATIC POWER OFF

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 *DFWX and DFWXS Technical manual*.

How Automatic Power Off Functions



The scale powers off when time configured in the AutoFF parameter lapses.

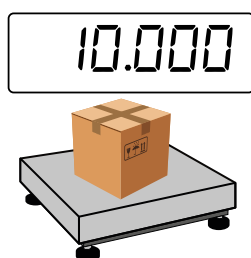


FUNCTION MODES

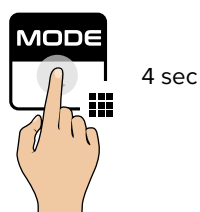
The indicator contains a variety of functions that are accessed from the Function menu through the **Mode** button. Each Function mode provides operation for specific scenarios.

Select Function Mode

1



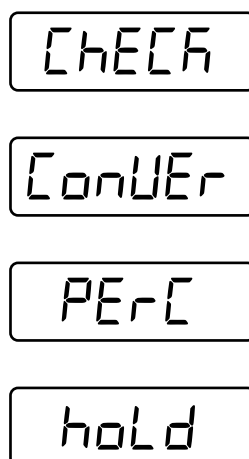
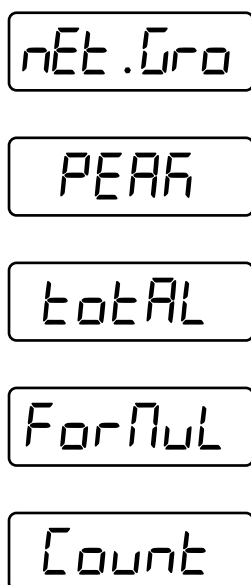
2



3



4



5



Press OK to continue.

Select the Function mode



NET AND GROSS WEIGHT EXCHANGE

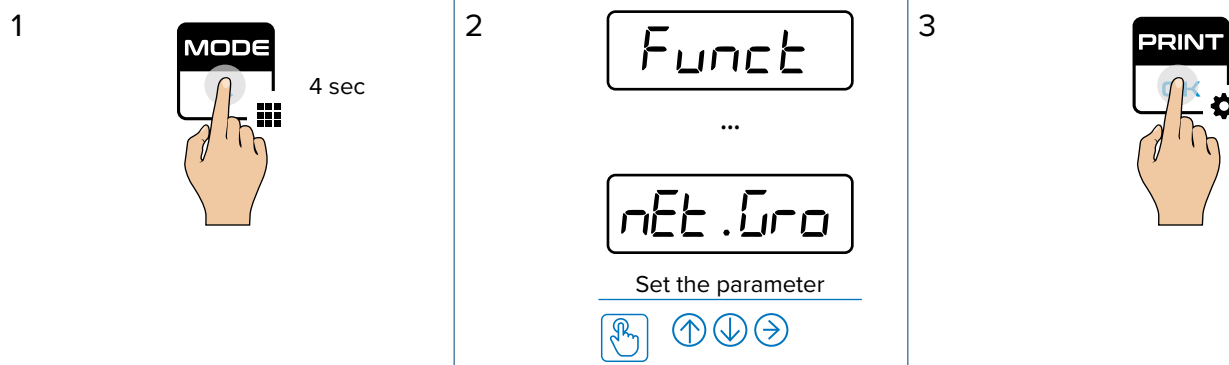
INTRODUCTION	42
ENABLE NET AND GROSS EXCHANGE FUNCTION MODE	42
EXCHANGE BETWEEN NET WEIGHT AND GROSS WEIGHT	43

INTRODUCTION

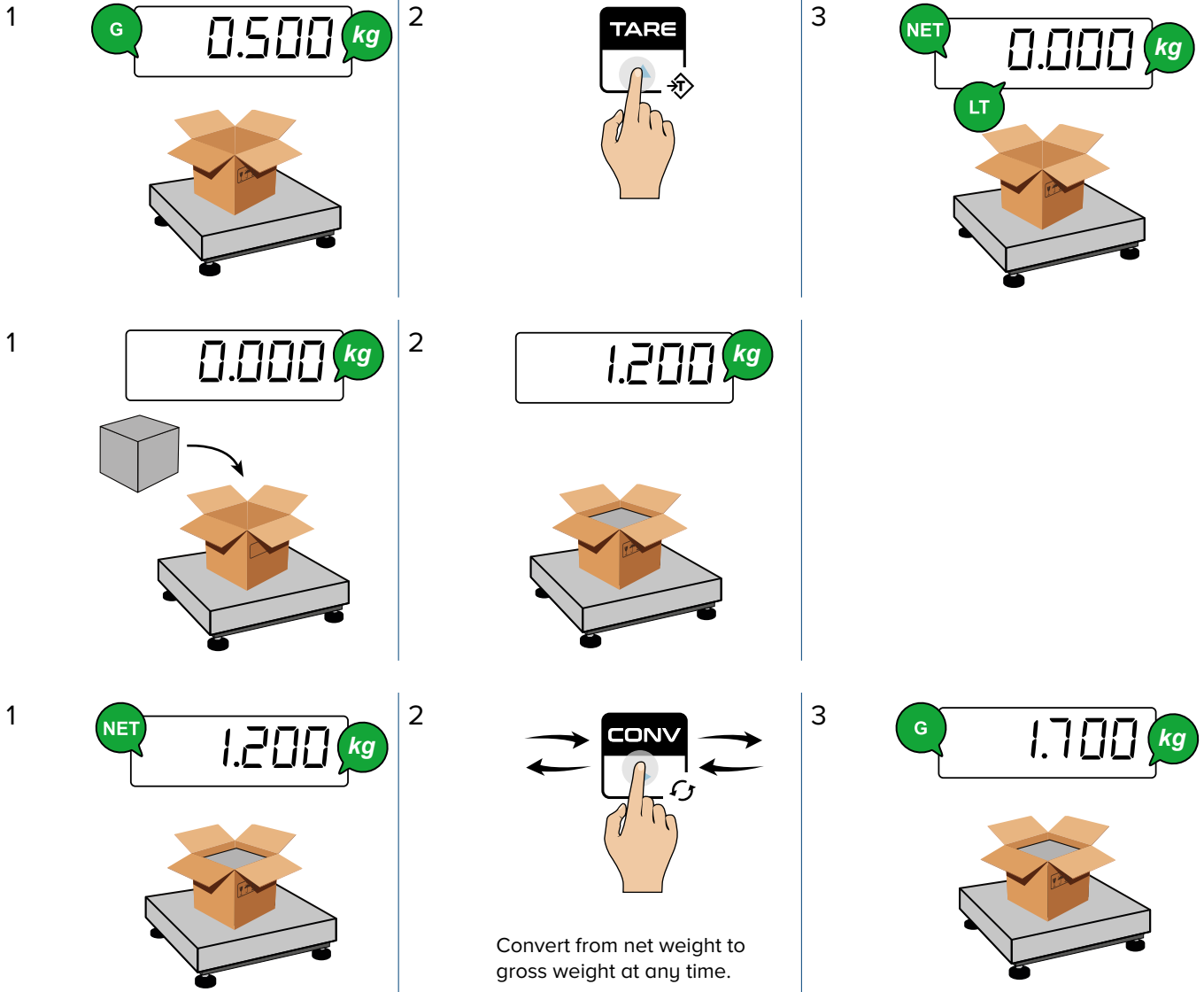
The *nEt .Gro* conversion function changes between net weight and gross weight. .
The annunciators indicates gross weight is enabled with “G”, net weight with “NET” annunciators.

ENABLE NET AND GROSS EXCHANGE FUNCTION MODE

Enable Conversion Function



EXCHANGE BETWEEN NET WEIGHT AND GROSS WEIGHT



i

If there is a tare weight, the gross weight is displayed for 2 seconds. While the gross weight is displayed, printing is not possible.

TOTALIZATION & FORMULATION MODES

INTRODUCTION	45
HOW TO ENABLE TOTALIZATION MODE	45
TOTALIZATION RULES	45
TOTALIZATION SETUP AND OPERATION	48
TOTALIZATION PROCESS	50

INTRODUCTION

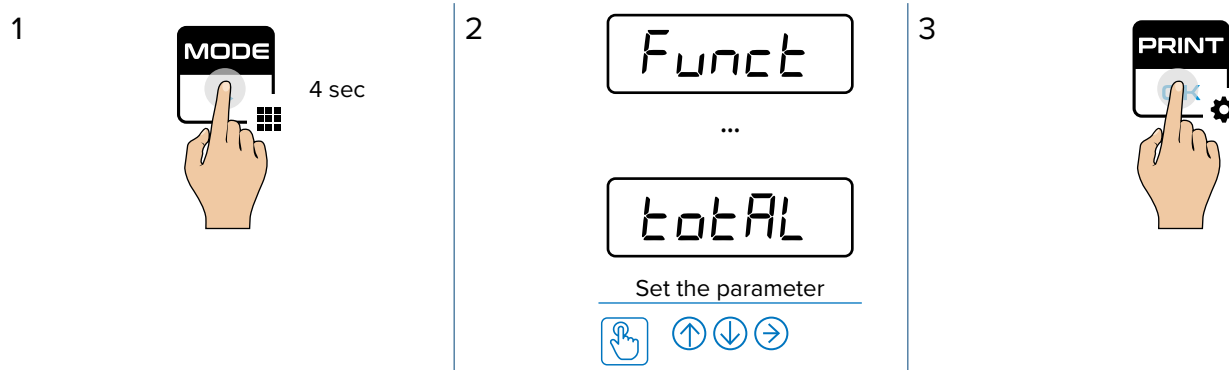
This section describes totalization configuration and operation.

Totalization allows several weights to be added together and calculate a cumulative total. Totalization is segmented into two types *total* and *Formul*:

- Horizontal Loading/Unloading Totalization (*total*)
- Vertical Loading/Unloading Formulation (*Formul*)

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.

HOW TO ENABLE TOTALIZATION MODE

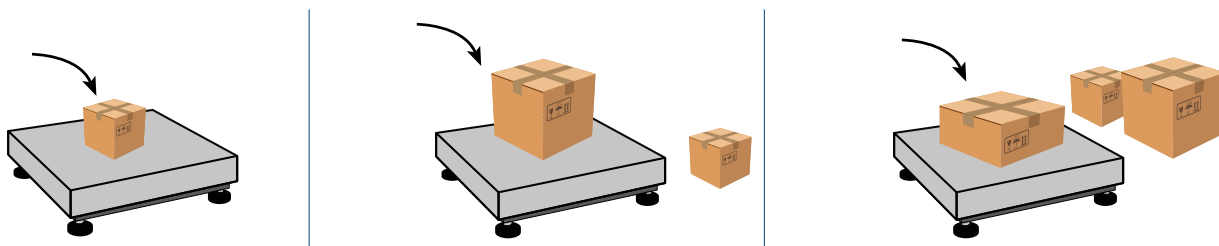


TOTALIZATION RULES

- After the first totalization the weight must be reactivated (see "Totalization reactivation")
- It is not possible to totalize if the gross weight is ≤ 0 (except for unloading totalization)
- 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 is unstable ("~")
- If the Albi memory is installed, the totalization also saves the weigh data in the alibi memory

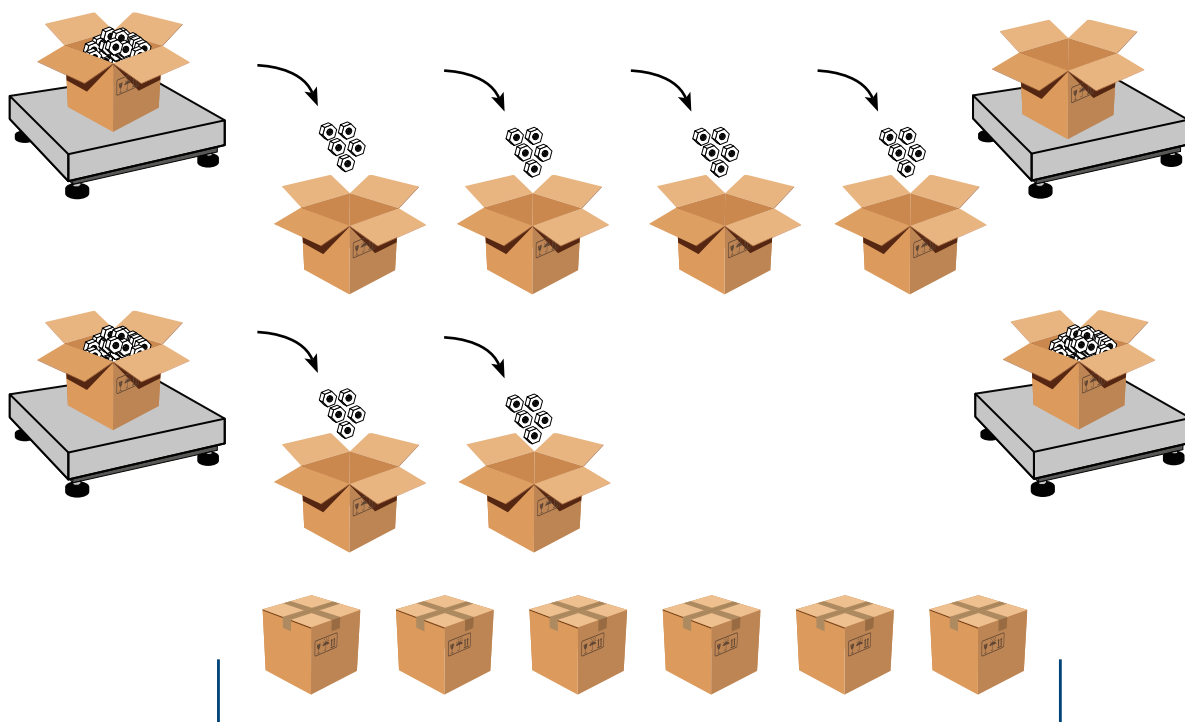
Horizontal Loading Totalization

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



Horizontal Unloading Totalization

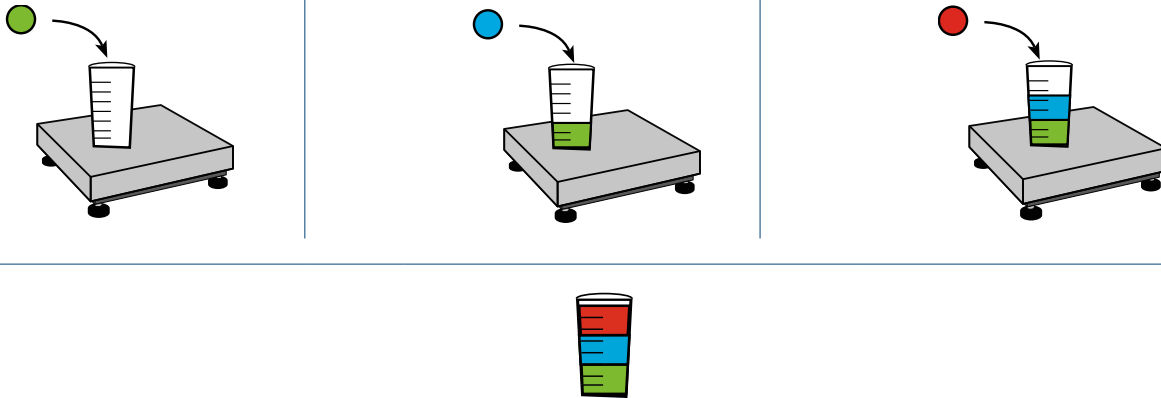
Unloading totalization consists of loading a full container on the scale and using the Tare function, removing the required object quantity and executing totalization, and then repeating removing objects and totalizing. After the first container is emptied, a second container can be loaded and then restarting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



Vertical Loading Totalization (Formula)

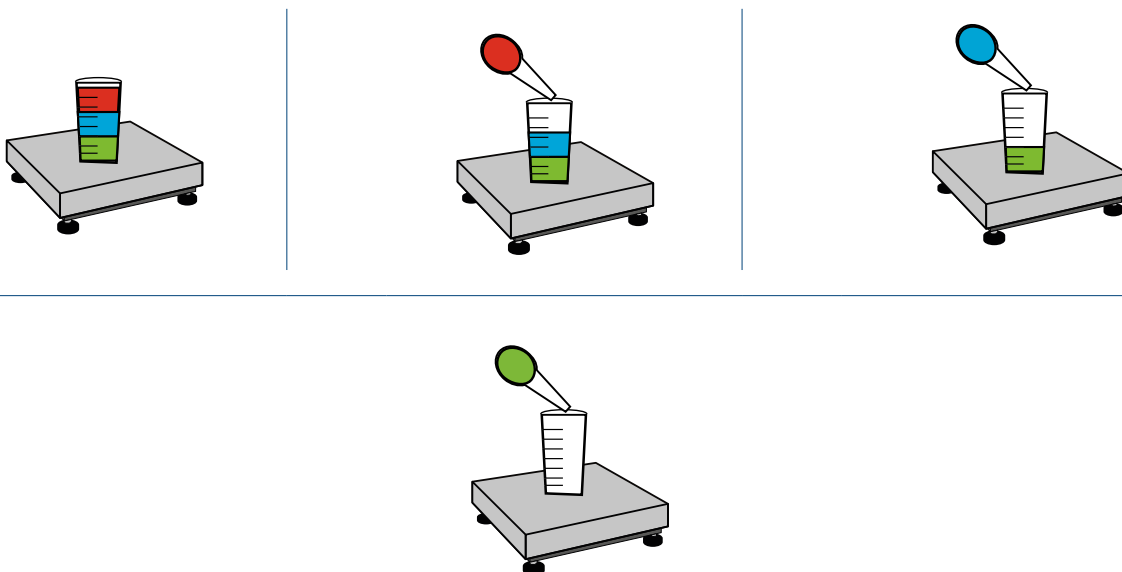
The vertical totalization (formulation) operation consists of loading the first object/ingredient on the scale, executing totalization, and then repeating the process until all object/ingredient are loaded and the total weight is measured. Unloading the scale occurs at the end of the process.

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



Vertical Unloading Totalization (Formula)

The vertical totalization (formulation) operation consists of loading a full container on the scale, executing a tare, and then unloading material from it, and then totalizing the material. The process is repeated until all material is unloaded and the total weight is measured. Unloading the scale occurs at the end of the process.



TOTALIZATION SETUP AND OPERATION

Totalization type (TOT . TYPE), automatic tare (AUT . TAR), and compulsory tare (CPS . TAR) are frequently combined in a variety of ways to operate in a specific totalization process. This section identifies combinations of (TOT . TYPE, TOT . MOD, AUT . TAR and CPS . TAR) that are frequently used and their operation.

Horizontal Totalization

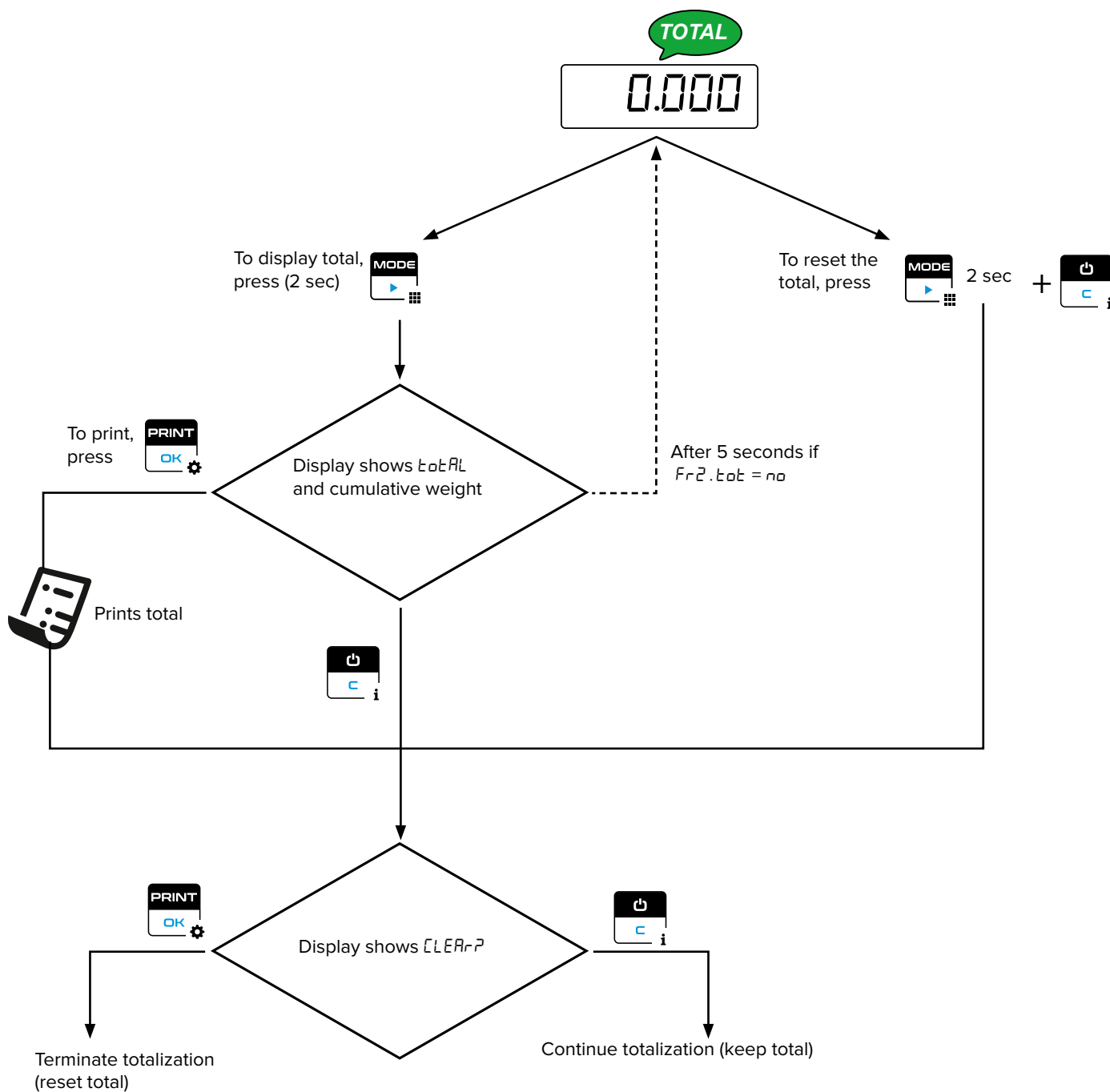
FUNCTION	CONFIGURATION	SETTINGS	SCALE OPERATION PROCEDURE
Manual Totalization	FUNCTION	TOTAL	1. Load the container (OPTIONAL). 2. Press TARE (OPTIONAL). 3. Load the weight. 4. Press Print to totalize. 5. Repeat step 3 and 4.
	TOT.TYPE	LOAD	
	TOT.MOD	MANUAL	
Automatic Totalization	FUNCTION	TOTAL	1. Load the container. 2. The indicator will automatically tare the weight. 3. Load the weight. 4. The indicator will automatically totalize. 5. Repeat step 3. * Set to NO if an automatic tare at the beginning of the procedure (Step 1 and 2) is not required.
	TOT.TYPE	LOAD	
	TOT.MOD	MANUAL	
	*AUT.TAR	YES	
	*CPS.TAR	YES	
Manual Unloading Totalization	FUNCTION	TOTAL	1. Load the container with material. 2. Press TARE. 3. Unload the material. 4. Press Print for totalize. 5. Repeat step 3.
	TOT.TYPE	UNLOAD	
	TOT.MOD	MANUAL	
Automatic Unloading Totalization	FUNCTION	TOTAL	1. Load the container with material. 2. The indicator will automatically tare the weight. 3. Unload the material. 4. The indicator will automatically totalize. 5. Repeat step 3.
	TOT.TYPE	UNLOAD	
	TOT.MOD	AUTO	
	AUT.TAR	YES	
	CPS.TAR	YES	

Vertical Totalization

FUNCTION	CONFIGURATION	SETTINGS	SCALE OPERATION PROCEDURE
Manual Formulation	FUNCTION	FORMUL	1. Load the container (OPTIONAL). 2. Press TARE (OPTIONAL). 3. Load the weight. 4. Press Print. 5. The indicator will totalize and zeroing the weight. 6. Repeat step 3 and 4.
	TOT.TYPE	LOAD	
	TOT.MOD	MANUAL	
Automatic Formulation	FUNCTION	FORMUL	1. Load the container. 2. The indicator will automatically tare the weight. 3. Load the weight. 4. The indicator will automatically totalize and zero the weight. 5. Repeat step 3. * Set to NO if an automatic tare at the beginning of the procedure (Step 1 and 2) is not required.
	TOT.TYPE	LOAD	
	Tot.MODE	AUTO	
	*AUT.TAR	YES	
	*CPS.TAR	YES	
Manual Unloading Formulation	FUNCTION	FORMUL	1. Load the container with material. 2. Press TARE. 3. Unload the material. 4. Press Print. 5. The indicator will totalize and zeroing the weight. 6. Repeat step 3.
	TOT.TYPE	UNLOAD	
	TOT.MOD	MANUAL	
Automatic Unloading Formulation	FUNCTION	FORMUL	1. Load the container with material. 2. The indicator will automatically tare the weight. 3. Unload the material. 4. The indicator will automatically totalize and zeroing the weight. 5. Repeat step 3.
	TOT.TYPE	UNLOAD	
	TOT.MOD	AUTO	
	AUT.TAR	YES	
	CPS.TAR	YES	

TOTALIZATION PROCESS

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



COUNTING MODE

INTRODUCTION	52
HOW TO ENABLE COUNTING MODE	52
HOW TO SAMPLE	52
HOW TO SET AVERAGE PIECE WEIGHT (APW)	53
SWITCH BETWEEN PCS AND WEIGHT	53

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



4 sec

2

Func

...

Count

Set the parameter



3



HOW TO SAMPLE

1

Load samples on scale

2



2 sec

3

-5- H

Set the parameter



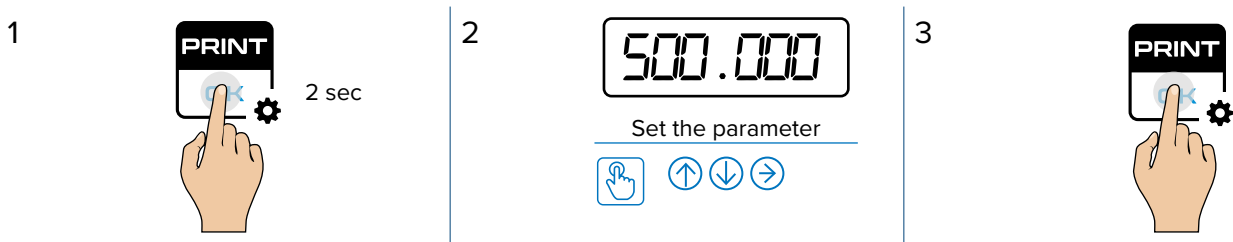
4



5

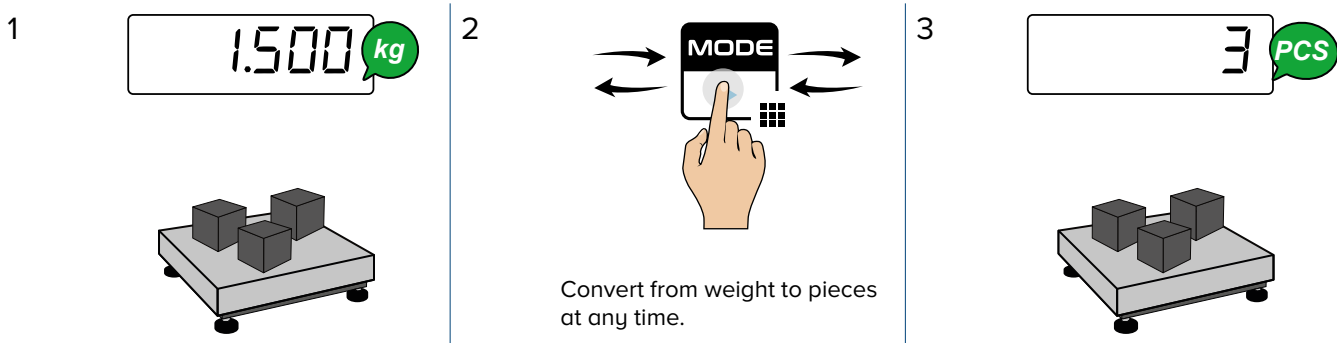
SAMPLE

HOW TO SET AVERAGE PIECE WEIGHT (APW)



SWITCH BETWEEN PCS AND WEIGHT

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



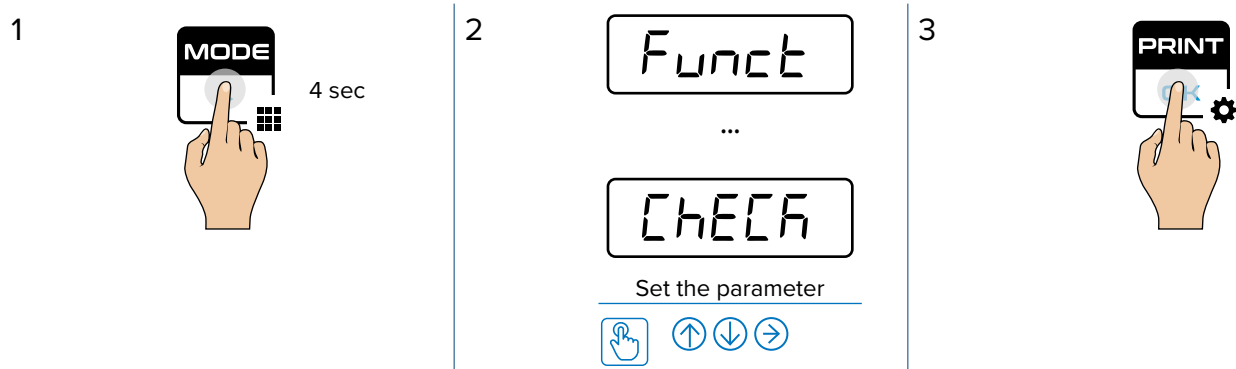
CHECK WEIGH MODE

OVERVIEW	55
HOW TO ENABLE CHECK MODE	55
CHECK MODE TYPES	55
ACCESS CHECK PARAMETERS	56
HOW TO SET A TARGET	57
GROSS, NET, NET NEGATIVE	57
HOW TO SAMPLE A NET NEGATIVE FROM THE SCALE	58
HOW TO SAMPLE A ZERO TARGET FROM THE SCALE	59
HOW TO SAMPLE PIECES (PCS)	60
MIN & MAX THRESHOLDS	61
ABOUT CHECK WEIGH MODE ANNUNCIATORS	62
CHECK WEIGH MODE CONFIGURED	62
HOW TO USE THE CHECK WEIGH MODE	63
ADDITIONAL SETTINGS	66

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.

HOW TO ENABLE CHECK MODE



CHECK MODE TYPES

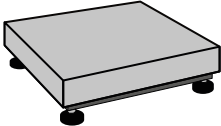
The DFWXS includes 5 different check weighing modes, to match different applications:

MODE	DESCRIPTION
Gross	Controls total weight of goods by verifying if the measured gross weight is acceptable or is out of tolerance. <i>i NOTE: Typically used for inspection to identify missing parts in packages.</i>
Net	Verifies if the measured net weight is acceptable or is out of tolerance. <i>i NOTE: Typically used to measure the weight of a container with product.</i>
Zero	Verifies if the measured net weight is the same as the sample. <i>i NOTE: Typically used to quality check production goods. For example, the operator tares the sample target, and then checks if there is a difference in weight with subsequent weighments in relation to the target. Instead of displaying the sample weight, a difference value is displayed (for example, -2.5 kg or 4.2 kg).</i>
Net Negative	Verifies if the measured net weight is acceptable or out of tolerance. This function verifies how much product is removed from the total on the scale. <i>i 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.</i>
PCS	Used to check a user defined quantity of pieces.

ACCESS CHECK PARAMETERS

1

0.000



2

PRINT


4 sec

3

Conf IG

4

SEt t in

...

CHEcK

Set the parameter





5

PRINT



6

tYPE

7

PRINT



8

Gross

net

Zero

NEG.net

PCS

Set the parameter





9

Exit and save User menu
(see page 95).

HOW TO SET A TARGET

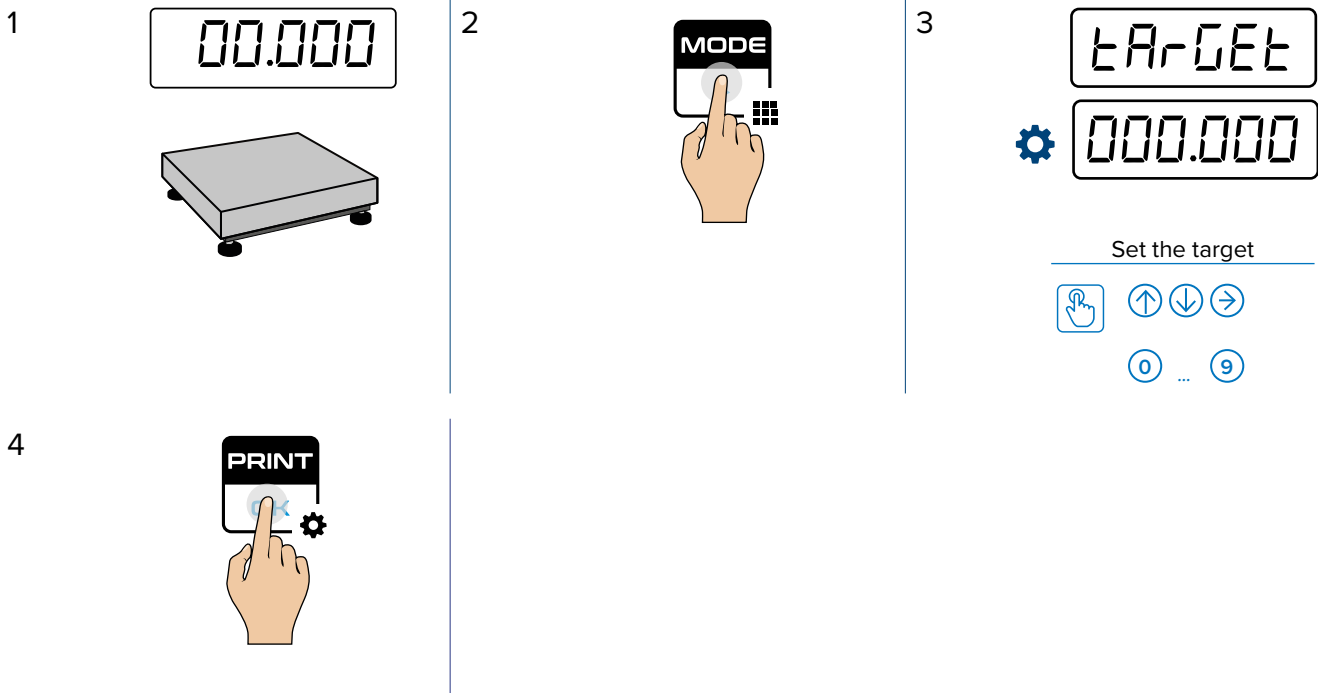
How a target is set varies depending on the type of Check weigh mode. Some Check weigh modes allow the target to be set through a configurable numeric field while others require an object to be set on the scale.



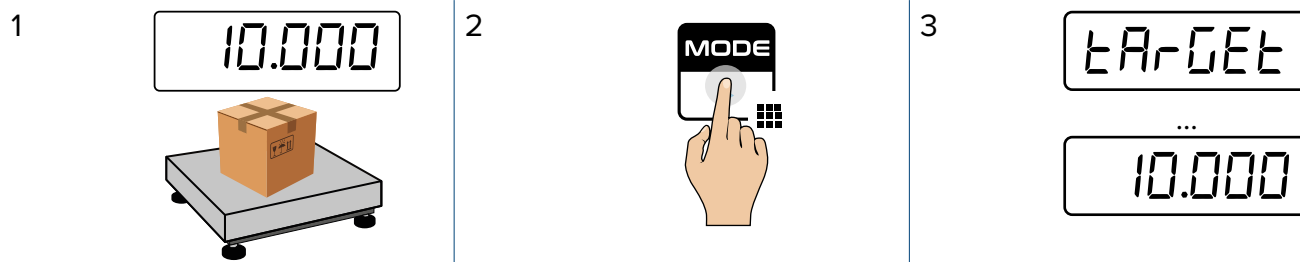
NOTE: If a target has been correctly programmed, the icon TARGET appears on the display.

GROSS, NET, NET NEGATIVE

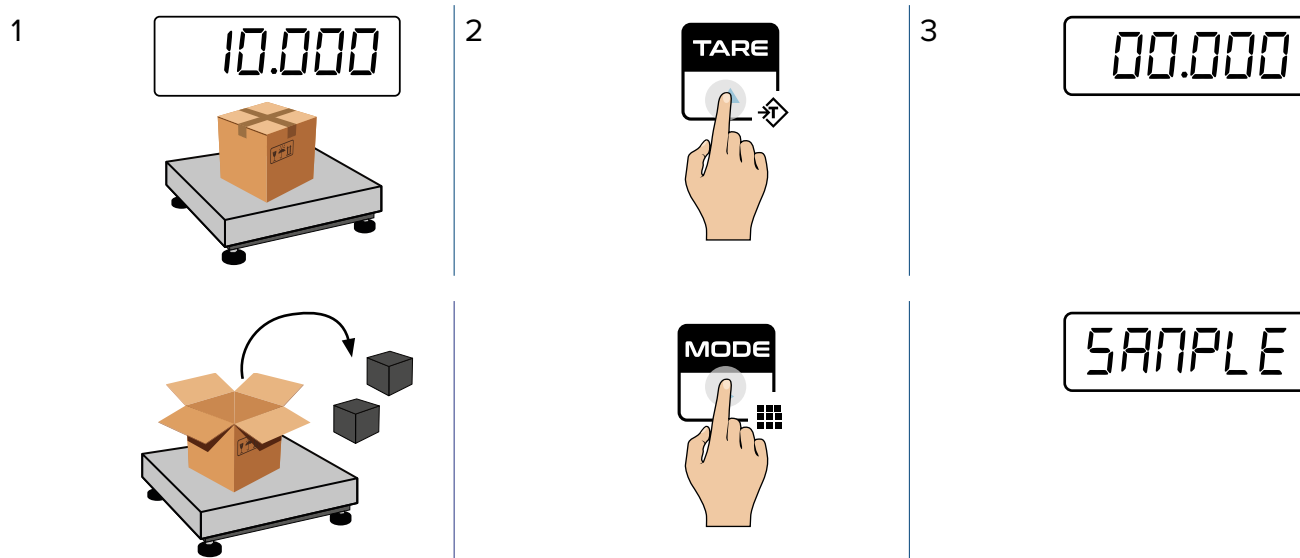
Manually Enter Target



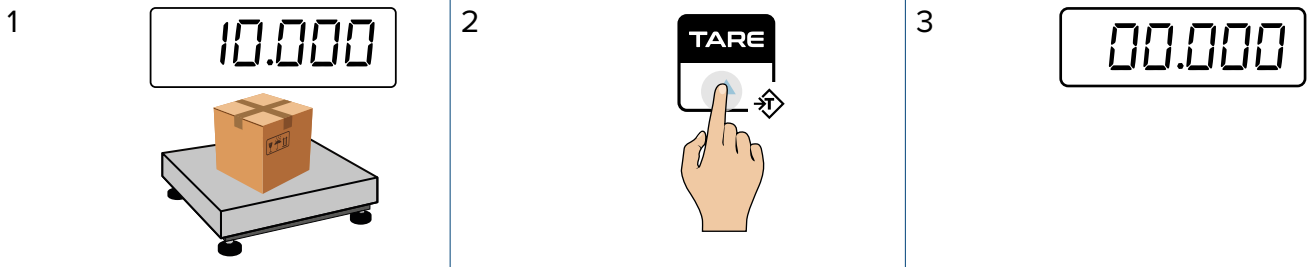
How to Sample a Target from the Scale



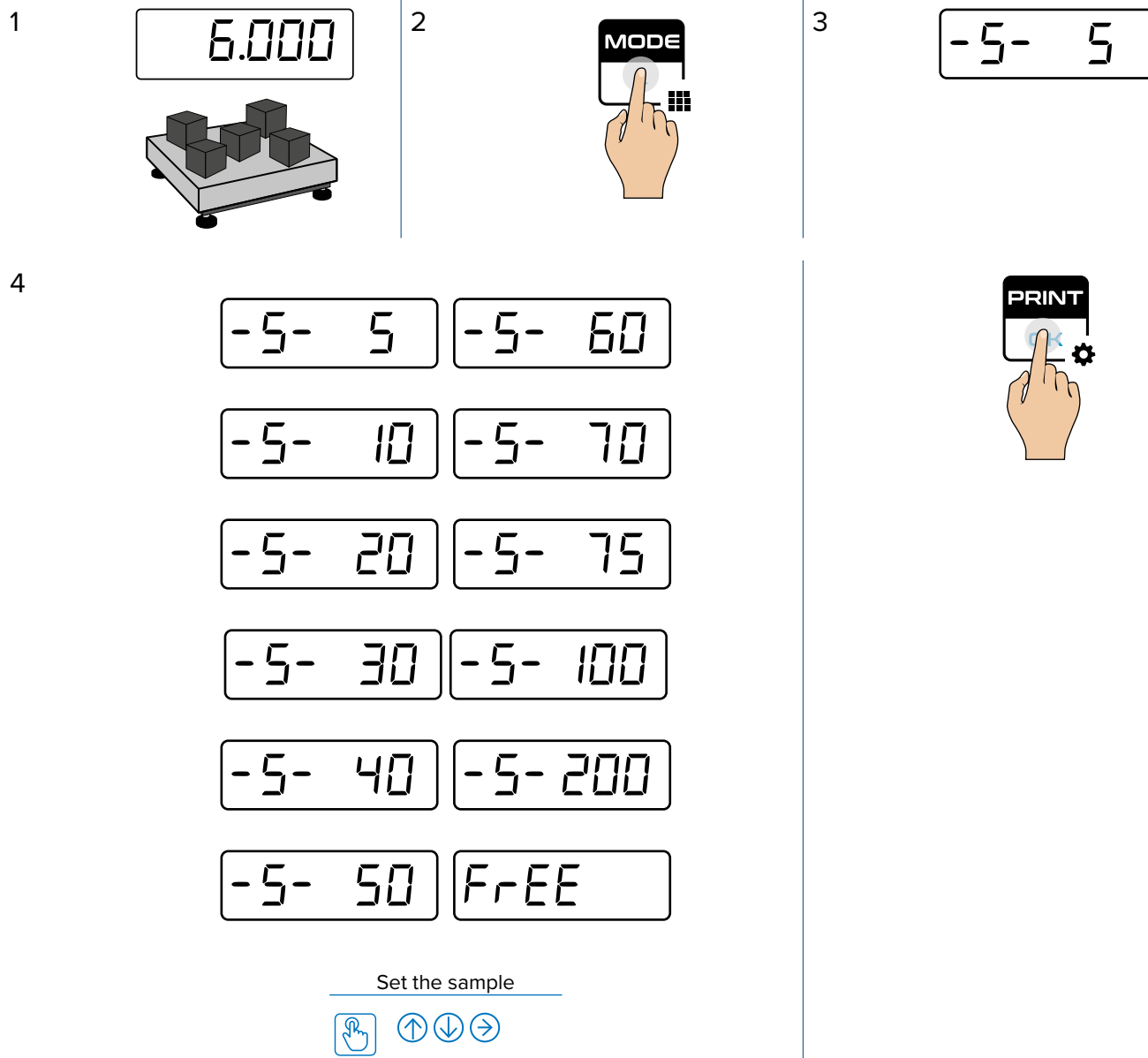
HOW TO SAMPLE A NET NEGATIVE FROM THE SCALE



HOW TO SAMPLE A ZERO TARGET FROM THE SCALE



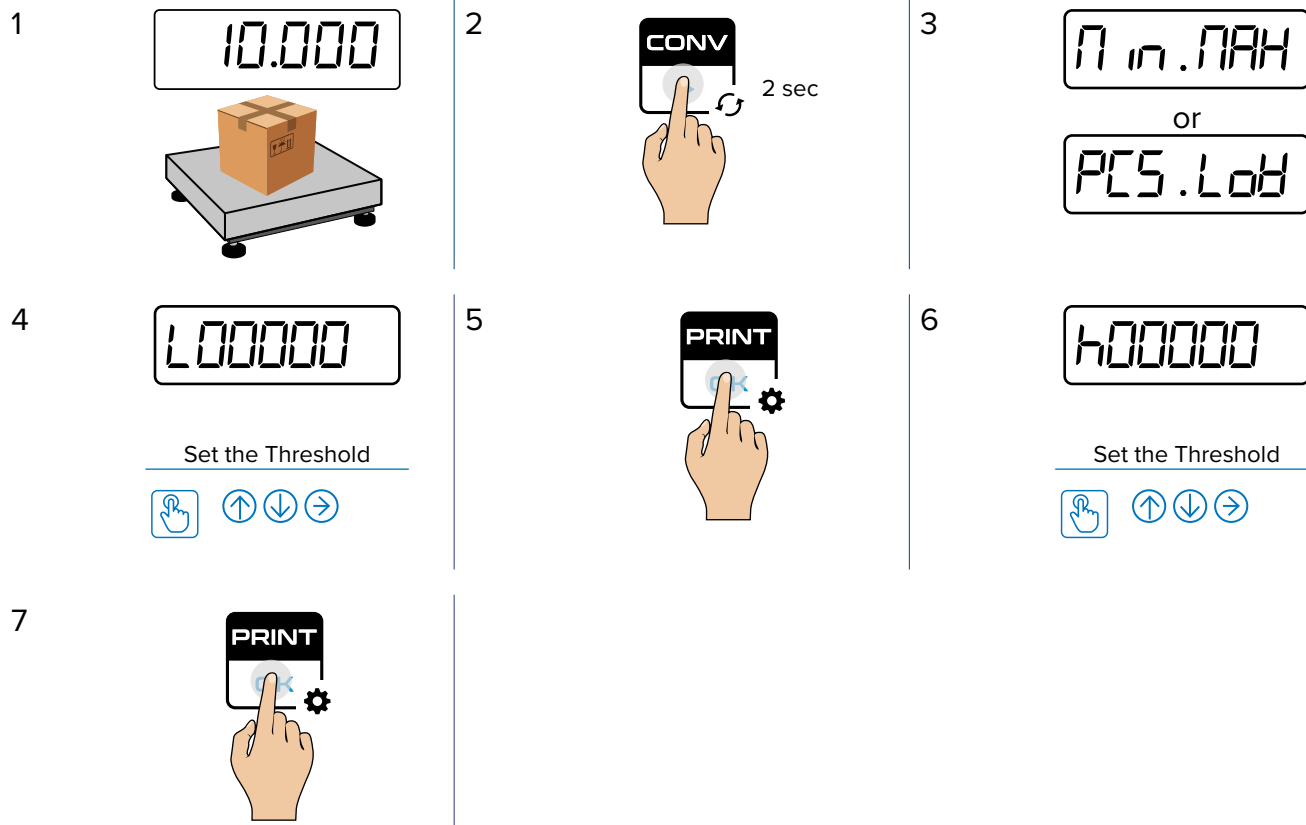
HOW TO SAMPLE PIECES (PCS)



NOTE: When using with Check Mode, the threshold must be configured in order to function.
The threshold is always absolute and the low threshold must be higher than zero to check pieces.

MIN & MAX THRESHOLDS

Gross, Net, Net Negative, PCS



Min.Max threshold Example 1

To check a weight of 1000 g with +/- 5 g tolerance (between 995 g and 1005 g), set:

- $EArGEt = 01000$
- $Min = L00005$
- $NAH = h00005$

Min.Max threshold Example 2

To check a weight of 500 g with + 10 g / - 20 g tolerance (that is, between 480 g and 510 g), set:

- $EArGEt = 00500$
- $Min = L00020$
- $NAH = h00010$

Threshold Example

To check an absolute tolerance with an accepted range of 4 through 6 set the Low threshold as 4 and high threshold as 6, set:

- $PCS.LoH = L00004$
- $PCS.NAH = h00006$

ABOUT CHECK WEIGH MODE ANNUNCIATORS

By default configuration, check weigh results are displayed in colors results:

MODE	DESCRIPTION
	Weight has exceeded the target weight.
	Weight is acceptable.
	Weight is below target weight.

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.

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 [CHECK ► tHrESh](#) on page 100.

HOW TO USE THE CHECK WEIGH MODE

Before proceeding, set the sample target and configure the minimum and maximum parameters.

Gross

Place object on scale and verify if in target.

1

2

3

Net

Place container on scale, tare container weight, place object in container, and then verify net weight is in target.

1

2

3

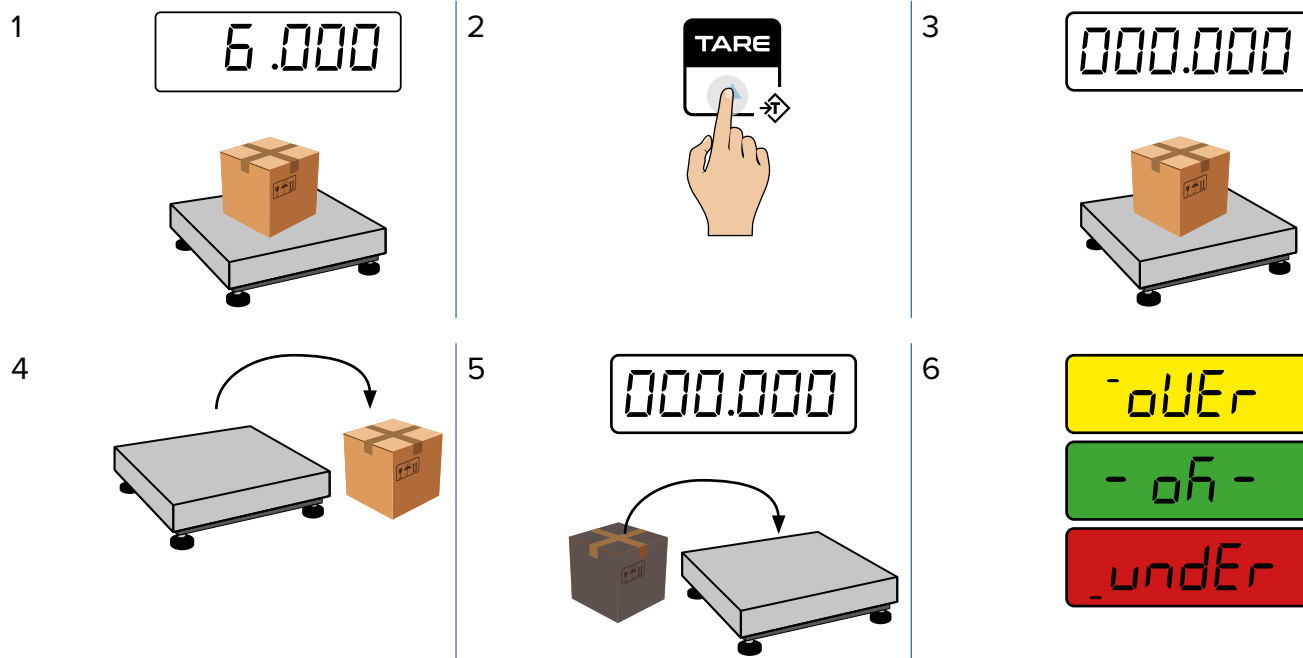
4

5

CHECK WEIGH MODE

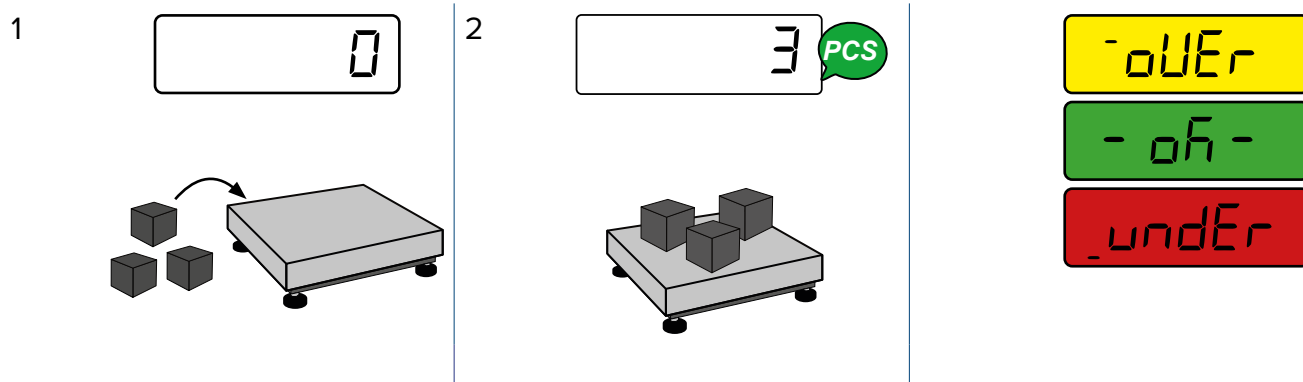
Zero

Place sample on the scale, tare sample, place comparative weight on scale, verify weight is in target.



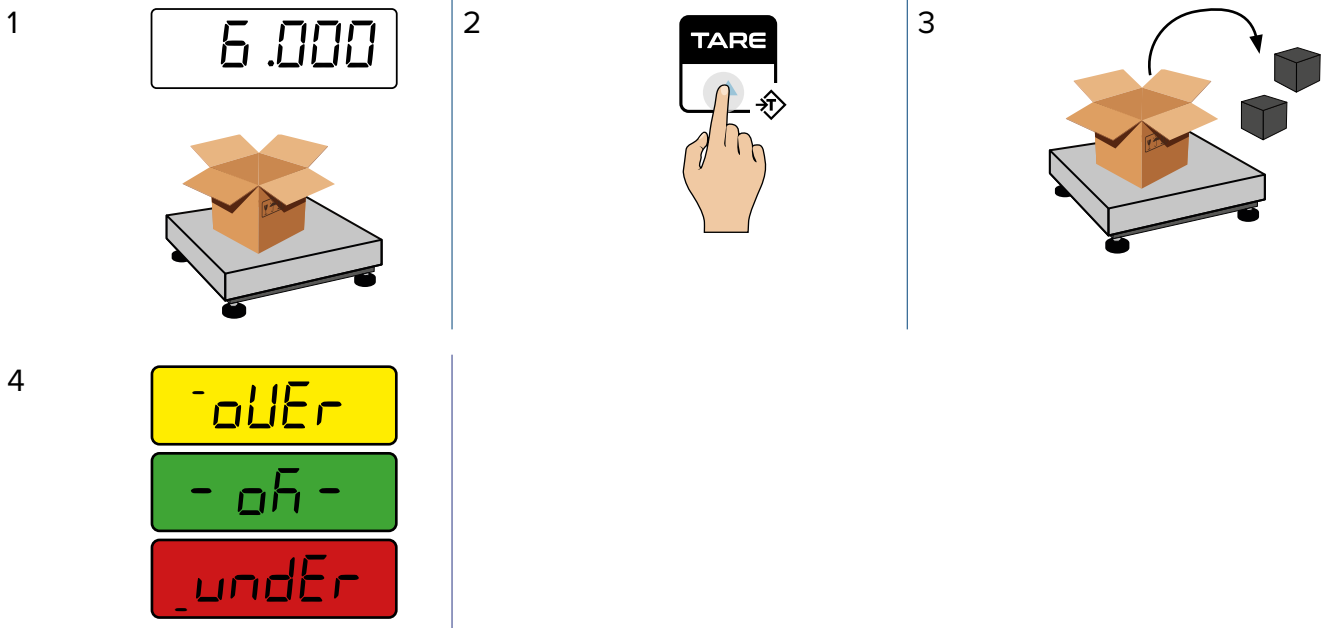
PCS

Place samples on the scale, verify quantity of samples is in target.



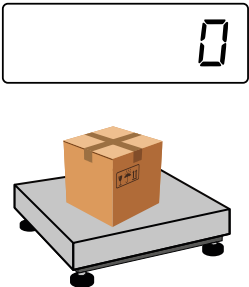
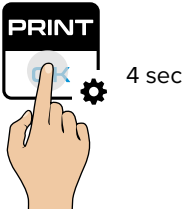
Take Away (нЕГ.нЕт) Check Weigh Modes

Place full container on scale, tare scale, remove desired quantity of objects from container, and then check if the weight is in tolerance.



ADDITIONAL SETTINGS

Access Additional Settings

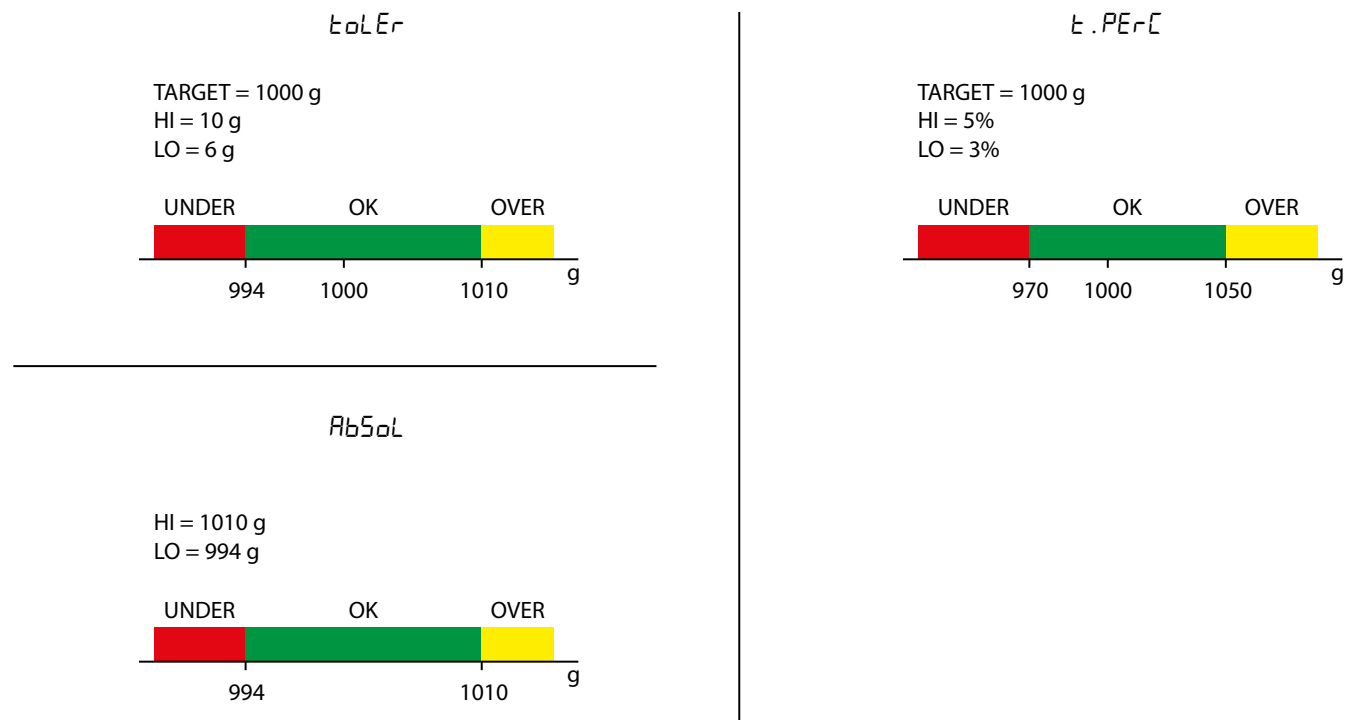
1		2		3	SEt t in ... CHECK Set the parameter 											
4		5	<table border="0" style="width: 100%;"> <tr> <td style="border: 1px solid black; padding: 5px; width: 50%;">tYPE</td> <td style="border: 1px solid black; padding: 5px; width: 50%;">C.oR</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C.NoDE</td> <td style="border: 1px solid black; padding: 5px;">C.oUeR</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">ChR.NSG</td> <td style="border: 1px solid black; padding: 5px;">oR unS</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">bEEP</td> <td style="border: 1px solid black; padding: 5px;">th.tol</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">thrESH</td> <td style="border: 1px solid black; padding: 5px;">Prn.tol</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C.unDEr</td> <td></td> </tr> </table> Set the parameter 		tYPE	C.oR	C.NoDE	C.oUeR	ChR.NSG	oR unS	bEEP	th.tol	thrESH	Prn.tol	C.unDEr	
tYPE	C.oR															
C.NoDE	C.oUeR															
ChR.NSG	oR unS															
bEEP	th.tol															
thrESH	Prn.tol															
C.unDEr																

NOTE: For information see, page 98.

Tolerance Input Modes

Tolerance range can be expressed in 3 different ways.

SUB MENU	PARAMETER	DESCRIPTION
C.MODE	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.



Check Message on Display

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

SUB MENU	PARAMETER	DESCRIPTION
Chk.MSG	on (default)	Enabled
	off	Disabled



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

MESSAGE	DESCRIPTION
- oUe r	Weight over tolerance
- o h x	Weight in tolerance but higher than target; X is the weight exceeding target (max of 9 units)
- o h -	Weight in target
_ o h 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:

SUB MENU	PARAMETER	DESCRIPTION
bEEP	nUtE (default)	Speaker OFF (default)
	b.out	Beeeps if out of tolerance, only when weight is stable
	b.5En5E	Beeeps 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.

PARAMETER	DESCRIPTION
thrE5h	Sets threshold weight value

Color Configuration

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

PARAMETER	DESCRIPTION
ColUndEr	Color for Weight Under status (default red)
ColOK	Color for Weight OK status (default green)
ColOver	Color for Weight Over status (default yellow)
ColUnS	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.

SUB MENU	PARAMETER	DESCRIPTION
Prnt.al	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.

SUB MENU	PARAMETER	DESCRIPTION
tH.al	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

PERCENTAGE WEIGHING

Enable Percentage Weighing	71
Configure Percentage Sample	72
Convert Percentage to Weight	72
Percentage Metering	73

Enable Percentage Weighing

1



4 sec

2

Func

...

PERC

Set the parameter



3



Configure Percentage Sample

1

0.500 kg

2

CONV

2 sec

3

5- 100.0 %

5- 75.0 %

Set the percentage

4

PRINT

5

SAMPLE

6

75.0 %

Convert Percentage to Weight

1

60.0 %

2

CONV

3

0.300 kg

Percentage Metering

Example of formula

Product: RP28K
1. 2127A3 - 50%
2. 23AB4 - 30%
3. Water - 20%
Dose 500g

1

0.020kg

2

ZERO

3

0.000kg

4

CONV

2 sec

5

000.500kg

Enter the total required weight

6

PRINT

7

0.0%

8

50.0%

9

TARE

10

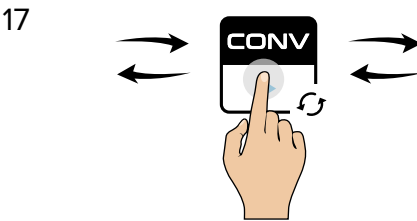
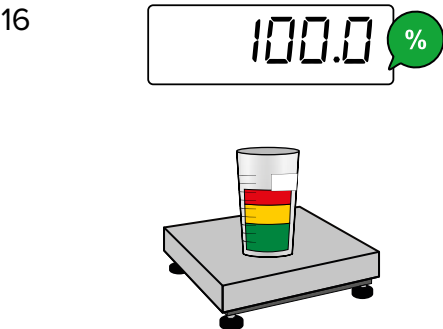
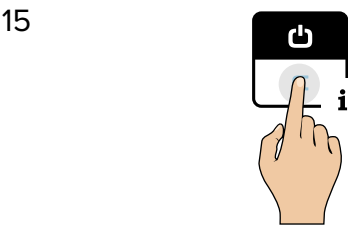
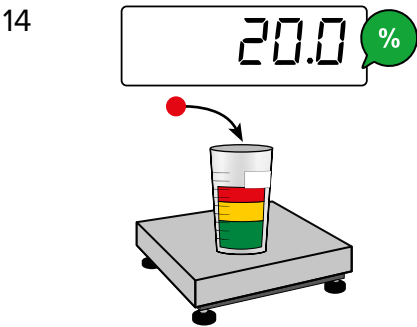
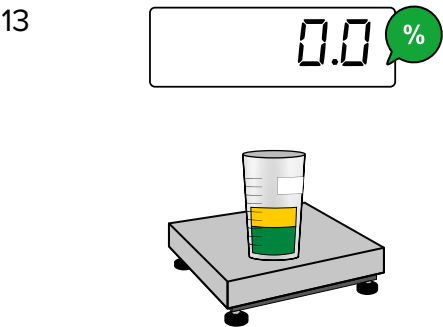
0.0%

11

30.0%

12

TARE



HOLD FUNCTION

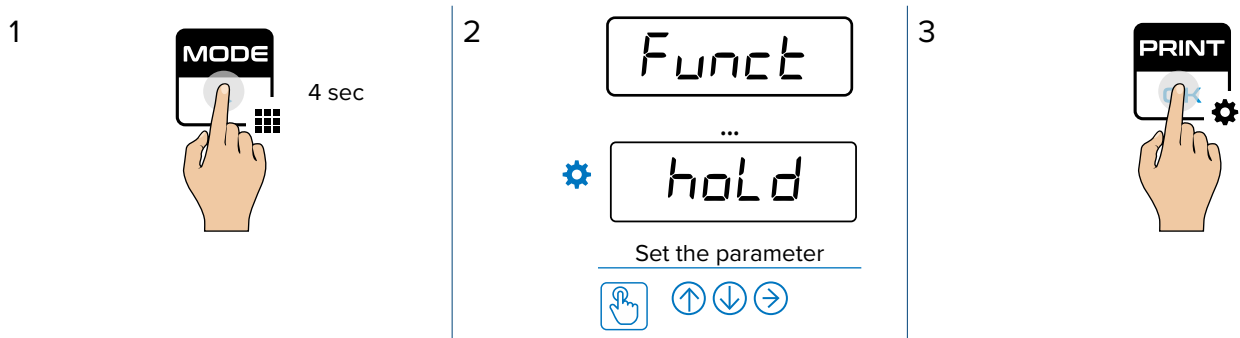
HOLD	77
ENABLE HOLD FUNCTION	77
HOLD OPERATION	78
RESET HOLD	79

HOLD

The Hold function displays a user selected weight until it is canceled or the indicator is powered off.

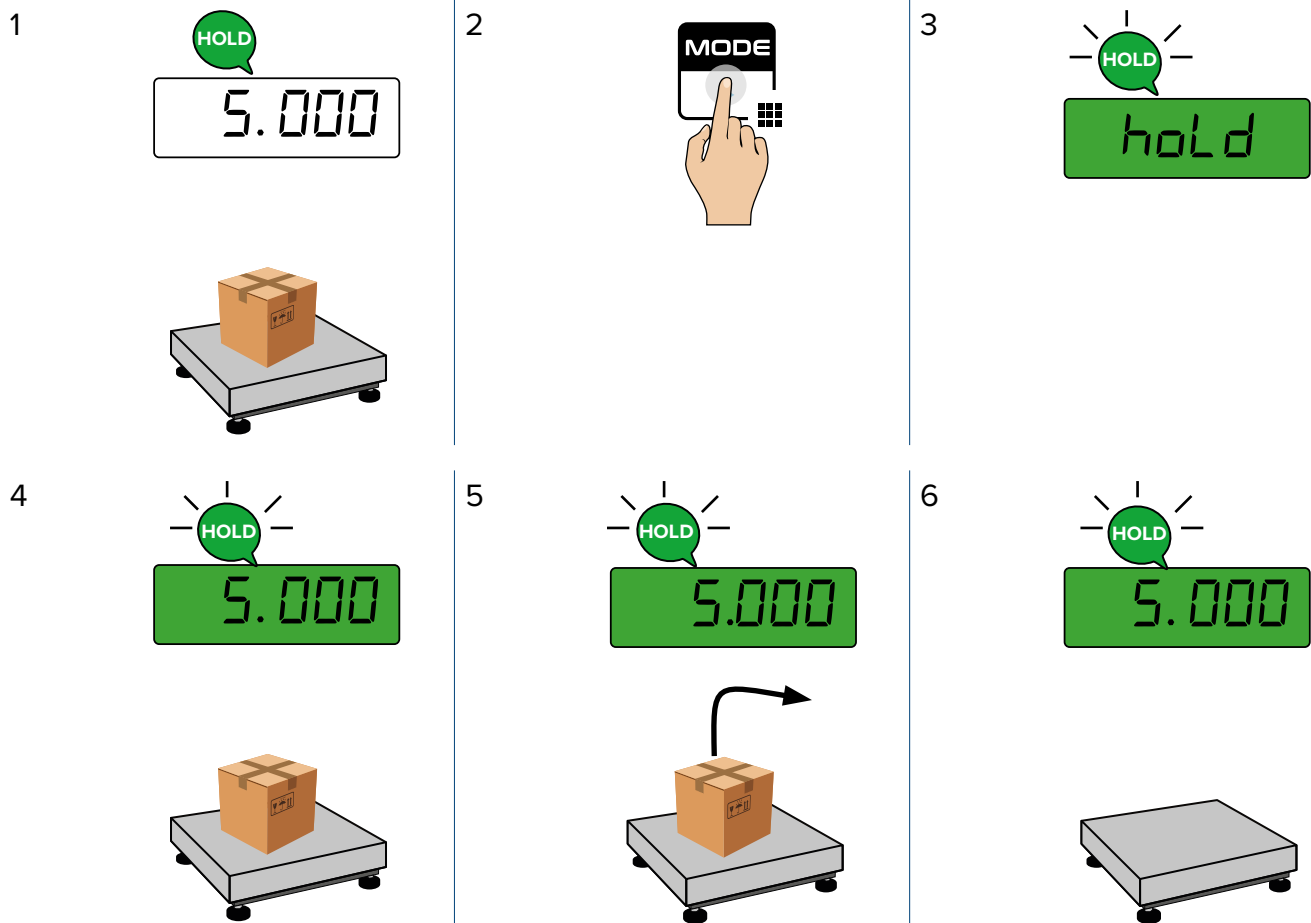
NOTE: Weight data can be automatically sent to a connected computer when it is stabile. Set the serial port Mode to Stable paramater. For more information, see the DFWX and DFWXS Tecnical Manual.

ENABLE HOLD FUNCTION



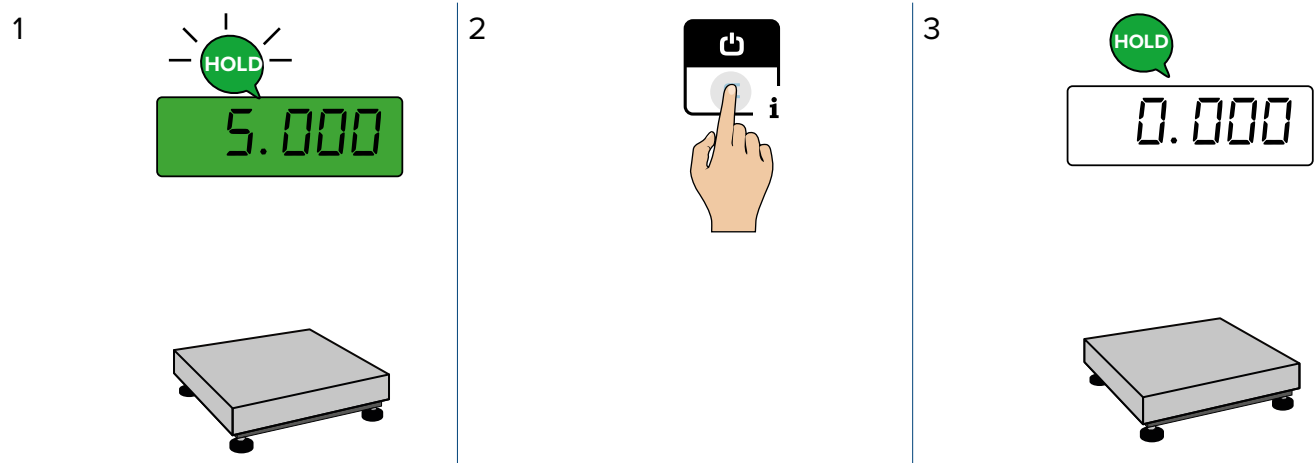
HOLD OPERATION

NOTE: The **HOLD** annunciator displays when **Hold mode** is enabled, and **flashes** when the function is active. In addition, hold resets if the indicator is powered off: When the weight is held the display illuminates green.



RESET HOLD

NOTE: Hold resets if the indicator is powered off.



ANIMAL WEIGHING

INTRODUCTION	81
ENABLE ANIMAL WEIGHING	81
ANIMAL WEIGHING	82
ANIMAL WEIGHING COMBINED WITH HOLD FUNCTION	83

INTRODUCTION

The indicator provides a special filter for weighing animals. The filter provides a modified hold function that will momentarily hold animals weight. For advanced operation, the animal Filter can be combined with any Function mode.

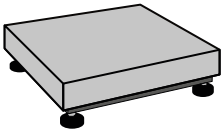
- 

NOTE: Weight data can be automatically sent to a connected computer when it is stable. Set the serial port Mode to Stable parameter. For more information, see the DFWXS Technical Manual.
- 

NOTE: For information about animal configurable parameters, see 115.

ENABLE ANIMAL WEIGHING

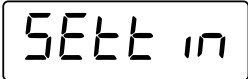
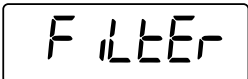
1

2



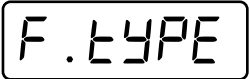
3


...

Set the parameter


4



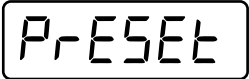
5



6



7



8



9



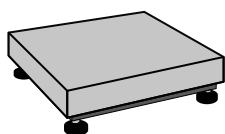
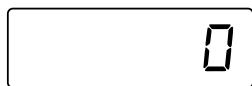
10

Exit User menu and save
(see page 95).

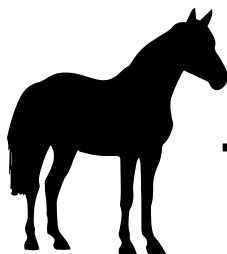
ANIMAL WEIGHING

NOTE: When an animals' weight is held, the display illuminates green.

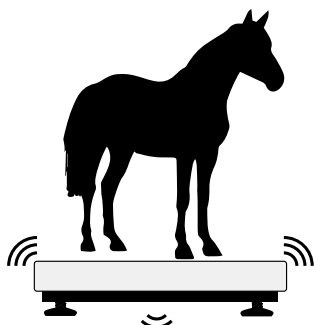
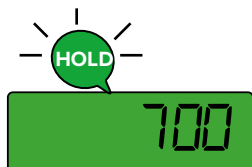
1



2

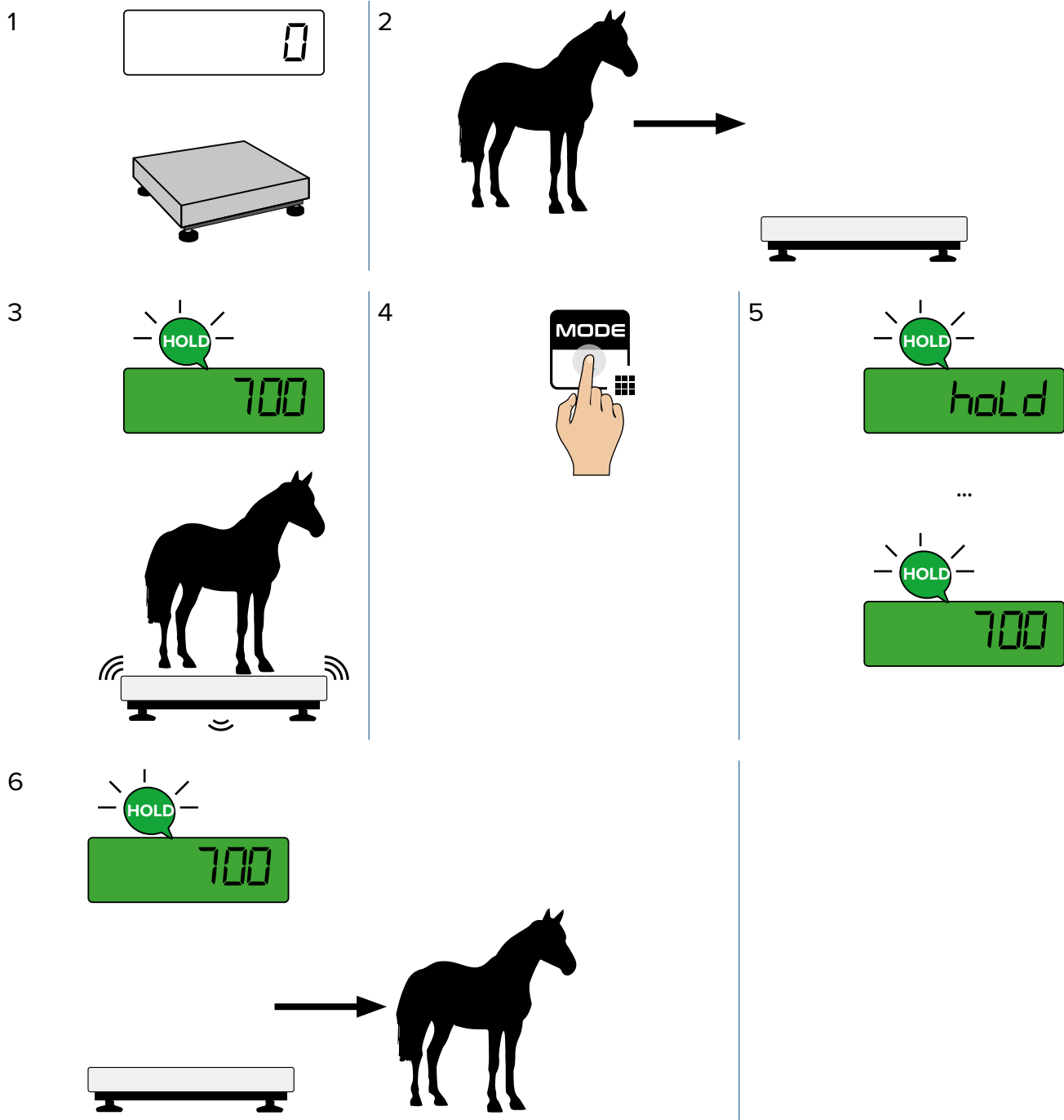


3



ANIMAL WEIGHING COMBINED WITH HOLD FUNCTION

The animal weighing function can be combined with the HOLD function to provide an additional manual hold function. For information about the *hold* function, see (page 76).



WEIGHT CONVERSION

INTRODUCTION	85
WEIGHT CONVERSION FUNCTION	85

INTRODUCTION

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

Conversion Rules:

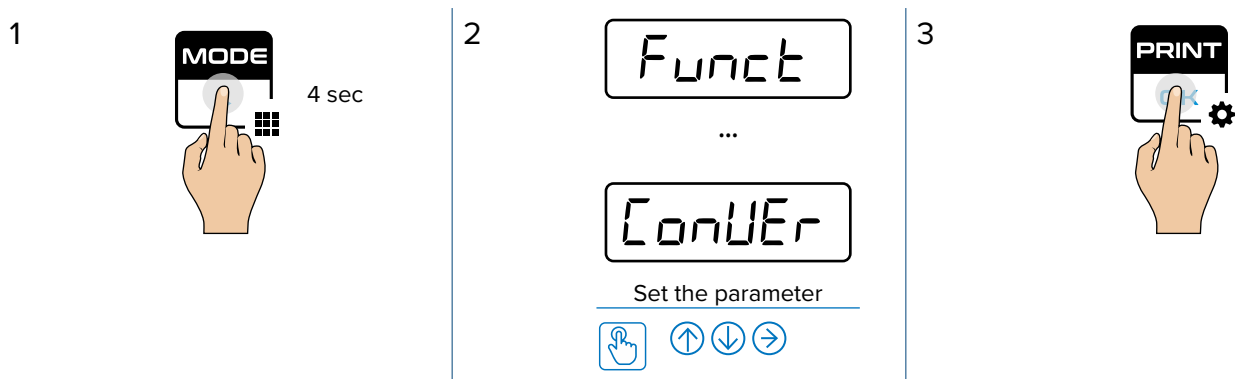
- The secondary unit is printed as follow:
 - kg ► lb
 - kg ► Newton
 - t ► Kilonewton
 - Free factor ► 0.000
- If the indicator is legal for trade, the secondary unit (-b, N, *) is only shown for 5 seconds.
- If free factor = 1.00000, when **MODE** key is pressed, the icon of the primary unit blinks but no conversion is performed.
- If free factor = 0.00000, when **MODE** key is pressed, the display shows “Er .FACT”.



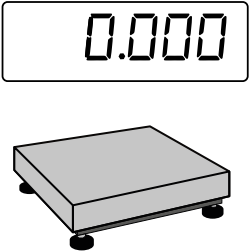
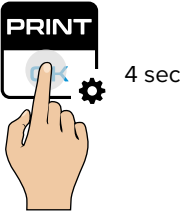
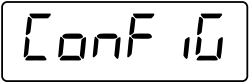
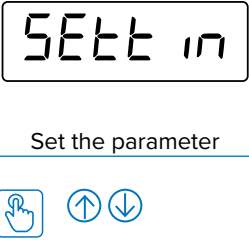
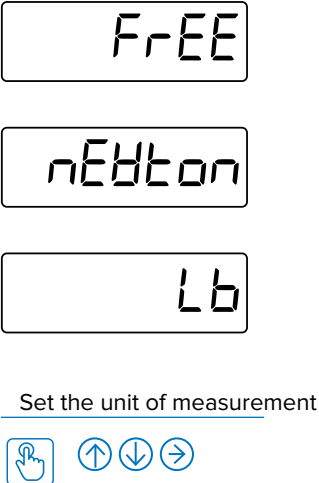
NOTE: The force is measured in weight (g, kg, lb, t) or newtons (N, kN).
Number of decimals (page 107) and division is configurable (page 108).

WEIGHT CONVERSION FUNCTION

Enable Conversion Function

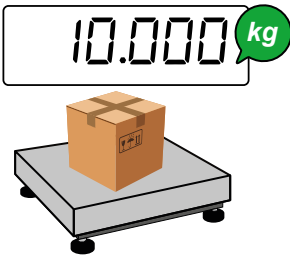


Configure Conversion Unit of Measure

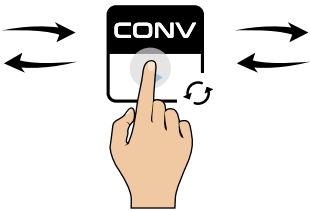
- 1 
- 2 
- 3 
- 4 
- 5 
- 6 
- 7 
- 8 
- 9 
- 10 
- 11 
- 12 Exit User menu and save (see page 95).

Operation

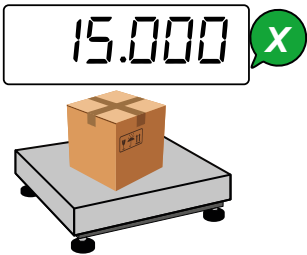
1



2



3

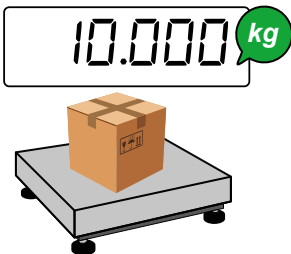


Free conversion units are shown as *, while other conversion units use standard units of measure (kg, kN, lb, N, t).

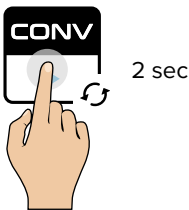
Configure Free Weight Configuration Parameters

The free weight conversion is calculated by multiplying the measured weight with by a user configured value.

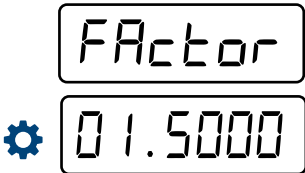
1



2



3



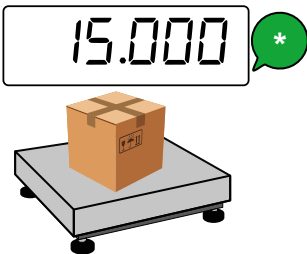
Set the parameter



4



5



PEAK FUNCTION

PEAK	89
ENABLE PEAK FUNCTION	89

PEAK

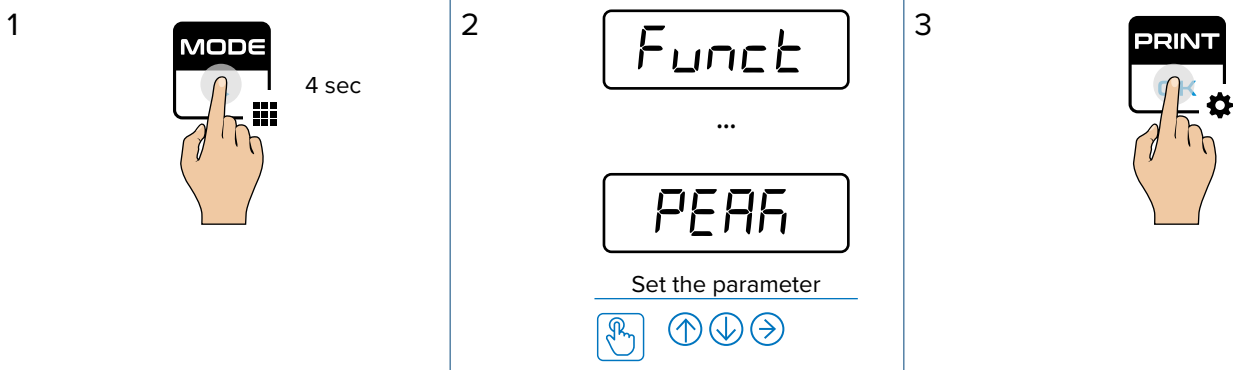
The Peak function only displays the heaviest measured weight.

- 

NOTE: The peak is measured in weight (g, kg, lb, t) or newtons (N, kN) (page 107). Number of decimals (page 107) and division is configurable (page 108).
- 

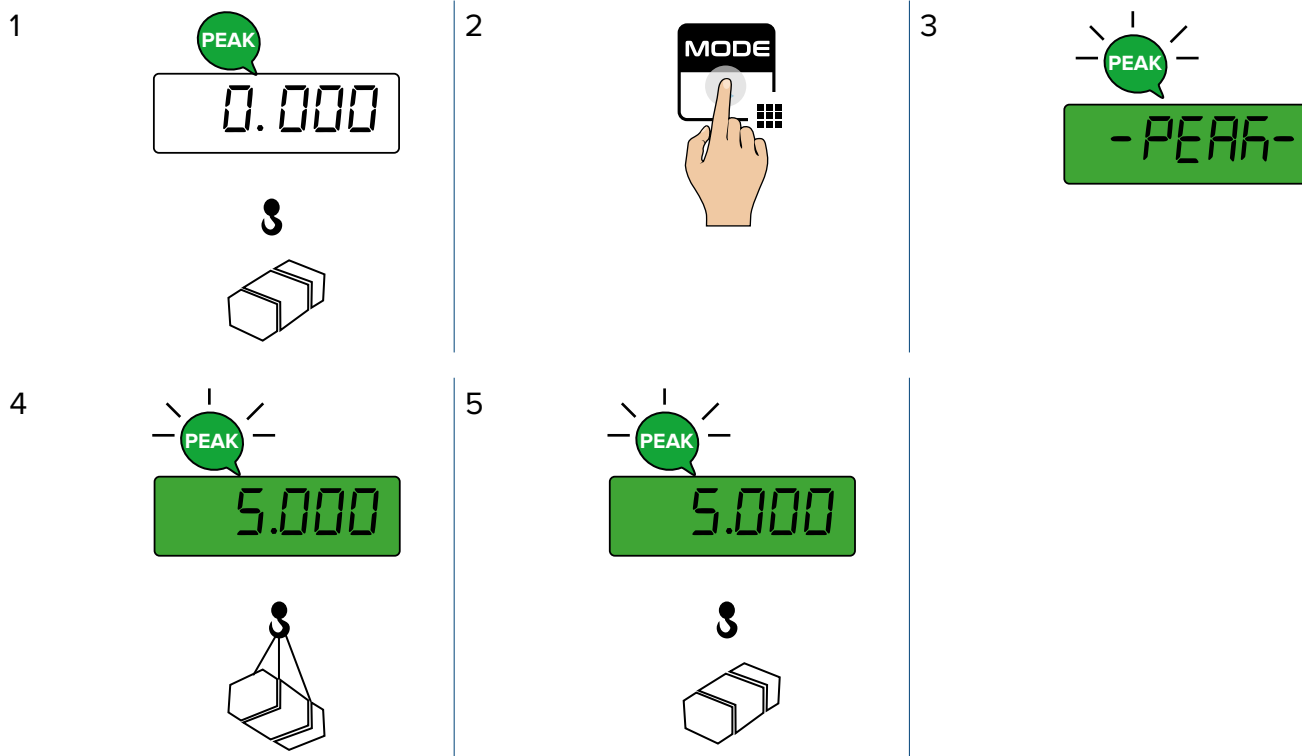
NOTE: Weight data can be automatically sent to a connected computer when it is stabile. Set the serial port Mode to Stable paramater. For more information, see the DFWXS technical manual.

ENABLE PEAK FUNCTION



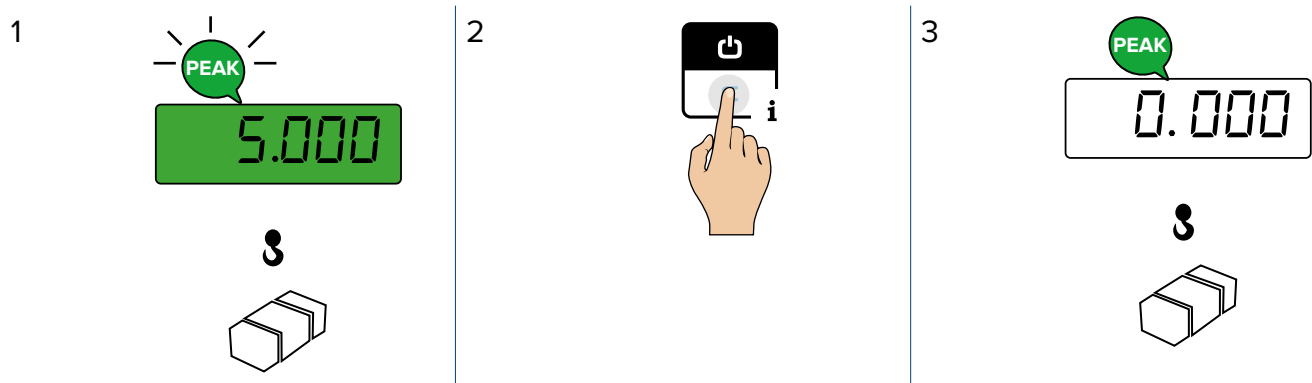
Peak Function Operation

i NOTE: When a peak is detected, the display illuminates green. Peak is lost if indicator is powered off.



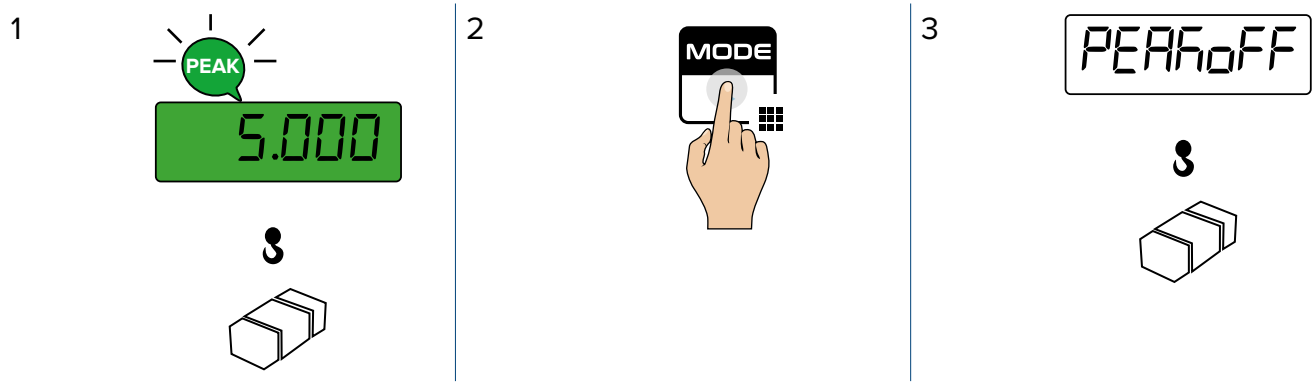
Reset Peak Function

NOTE: Also resets if indicator is powered off.



Disable Peak Function

NOTE: Also resets if indicator is powered off.



METROLOGICAL INFORMATION

INTRODUCTION	93
SERIAL NUMBER	93
METROLOGICAL FIRMWARE	93
INFORMATION	93
IDENTIFICATION OF METROLOGICAL SOFTWARE	94

INTRODUCTION

THE DFWXS 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  4 sec 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.

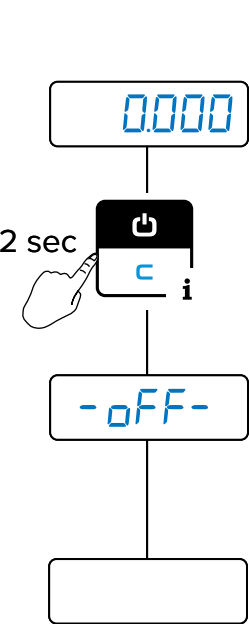
 **NOTE:** The following illustration is an example, actual values vary.



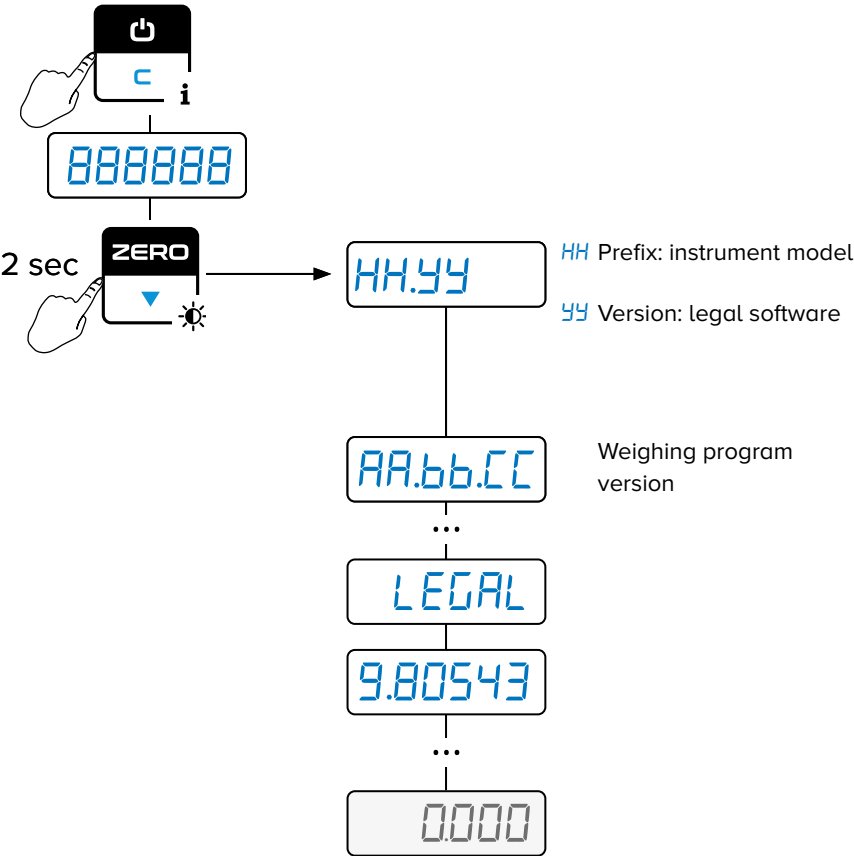
IDENTIFICATION OF METROLOGICAL SOFTWARE

View Metrological Information

1. Turn off the scale



2. Follow the procedure:



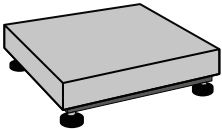
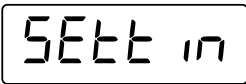
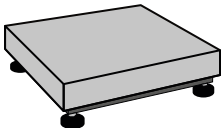
Item	Description
HH.yy	xx = Prefix: instrument model yy = Version: legal software
AA.bb.cc	Weighing program version
dFBH5	Product name
- I- 1.10	Hardware identification (for manufacturer purposes)
HHHHH.H	Calibration parameters: Capacity and resolution
hires or LEGAL	Hires = internal use configuration Legal = legal for trade configuration
9.HHHHHH	Gravity acceleration value in use

CONFIGURATION MENU

SEtE in - SETTINGS	98
ChECh - CHECK WEIGH MODE	98
tyPE- TYPE OF CHECK WEIGH MODE	98
Ch .ModE - CHECK MODE	99
ChH .MSG - CHECK MESSAGE	99
bEEP - CHECK WEIGH MODE BEEP	100
thRESh - CHECK WEIGH MODE THRESHOLD	100
Ch .undEr - COLOR UNDER	101
Ch .oK - COLOR OK	101
Ch .oVEr - COLOR OVER	101
oKunSt - OK UNSTABLE	101
th .tol - TRANSMISSION IN TOLERANCE	102
Prnt .tol - PRINT TOLERANCE	102
totRL - TOTALIZATION	103
tot .tyP - TOTALIZATION TYPE	103
Min .Wgt - MINIMUM WEIGHT	103
MAx .tot - MAXIMUM TOTALIZATION	103
tot .Mod - TOTALIZATION MODE	104
n .BE iGh - SHOW TOTALIZATION WEIGH NUMBER	104
FrZ .tot - FREEZE TOTAL	104
WA it .St - WAIT STABILITY	105
CPs .tAr - COMPULSORY TARE	105
Count - COUNTING MODE	106
Un .APp - UNIT OF MEASURE AVERAGE PIECE COUNT WEIGHT	106
WA it .t - WAIT TIME SAMPLING	106
PEAK - PEAK	107
nEWton - NEWTON UNIT OF MEASURE	107

<i>dEc .2</i> - DECIMAL CONFIGURATION NEWTONS (ONLY IF NEWTON = YES)	107
<i>d iU .2</i> - DIVISION CONFIGURATION NEWTONS (ONLY IF NEWTON =YES)	108
<i>ConUEr</i> - Conversion	109
<i>dEc .2</i> - DECIMAL QUANTITY FOR CONVERSION	109
<i>d iU .2</i> - DIVISIONS FOR CONVERSION	110
<i>un it</i> - UNITS OF MEASURE FOR CONVERSION	110
<i>PERC</i> - Percentage	111
<i>WAit .t</i> - WAIT TIME SAMPLING	111
<i>En .SAVE</i> - ENERGY SAVE	112
<i>SCrEEen</i> - ADJUSTING THE DISPLAY	112
<i>CoLoUr</i> - COLOUR	113
<i>dSP .rF</i> - DISPLAY REFRESH RATE	114
<i>AutoFF</i> - AUTOMATIC POWER OFF	114
<i>tArE</i> - TARE	121
<i>Auto .tAr</i> - AUTOMATIC TARE	121
<i>CLoCh</i> - DATE AND TIME	122
<i>PrEC . iD</i> - HIGH RESOLUTION READING DIVISION	122
<i>AL ib i</i> - ALIBI MEMORY READING	123
<i>t iN .rES</i> - TICKET NUMBER RESET	124
<i>SEtPnt</i> - SETPOINT	124
<i>d iAG</i> - DIAGNOSTICS	125

HOW TO ACCES THE CONFIGURATION MENU

- 1 

- 2  4 sec
- 3 
...



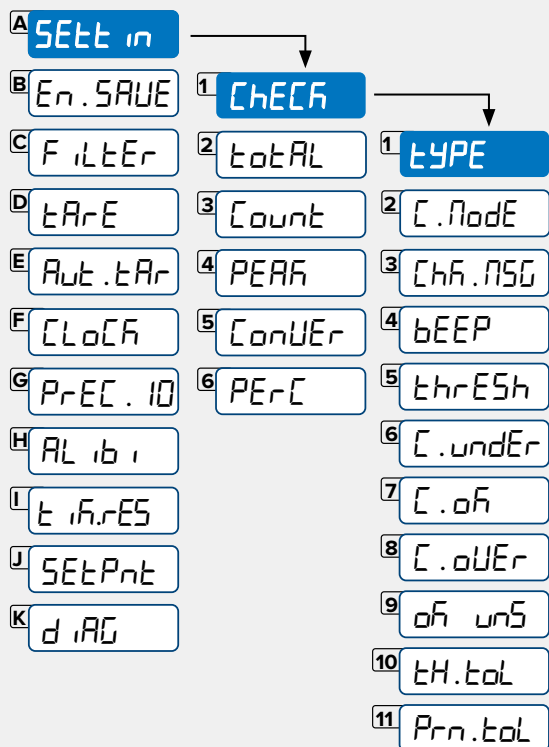
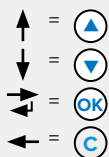
HOW TO EXIT AND SAVE CONFIGURATION MENU CHANGES

- 1 
Press **C** until *SAVE?* displays.
- 2 
- 3 

How to enter

OK 5 Sec.

How to browse



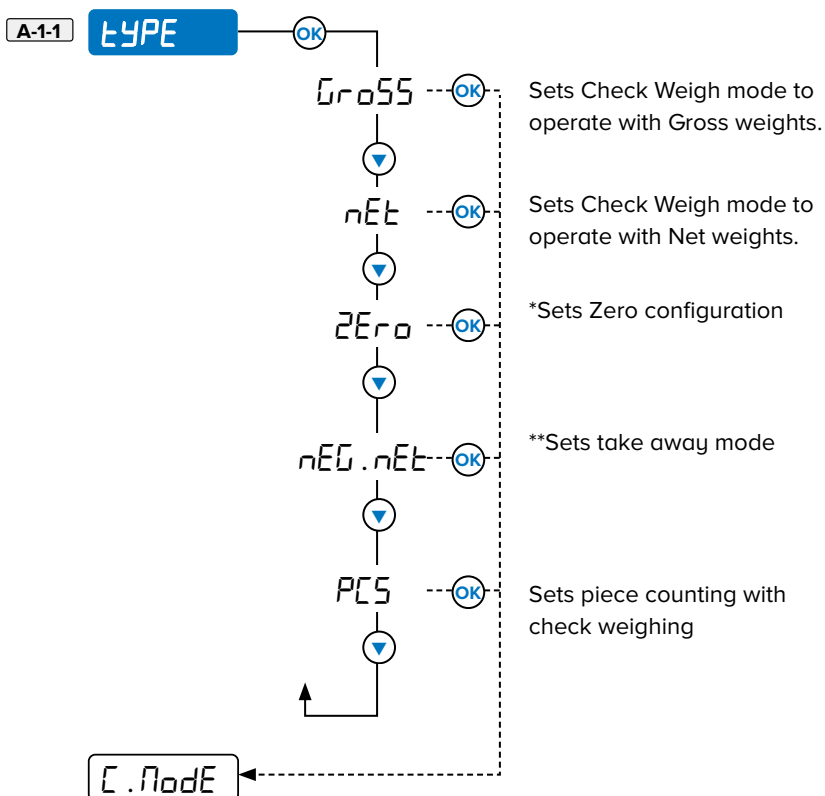
SEt in - SETTINGS

 SEt in only displays sub-menus for functions selected from the Funct menu (see 22).

CHECK - CHECK WEIGH MODE

TYPE - TYPE OF CHECK WEIGH MODE

Configures the type of Check Weigh mode.



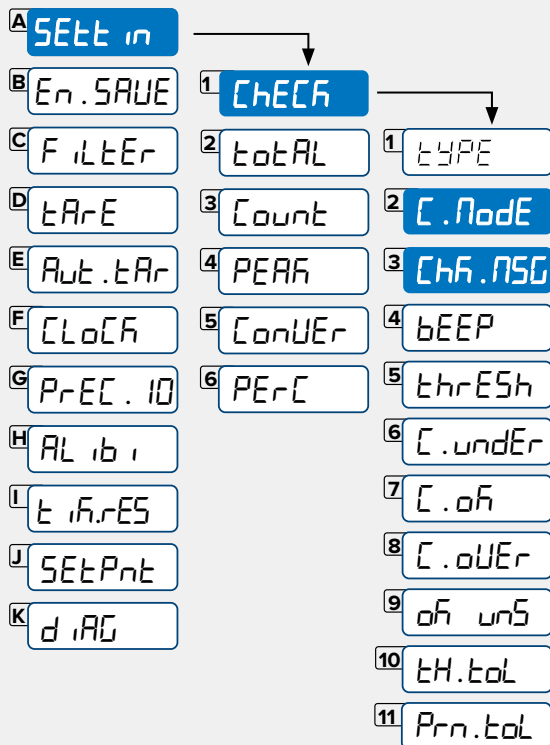
* Places sample weight in tare, and performs a check by comparing the weight with the 0 NET. When a product to verify is put on the scale, the display shows the weight difference in positive or negative values and the check result (under, over or OK). Quickly determines the difference between the original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

** Sets Check Weigh mode to operate in take away mode. Subtracts a quantity from a total amount on the scale.

How to enter

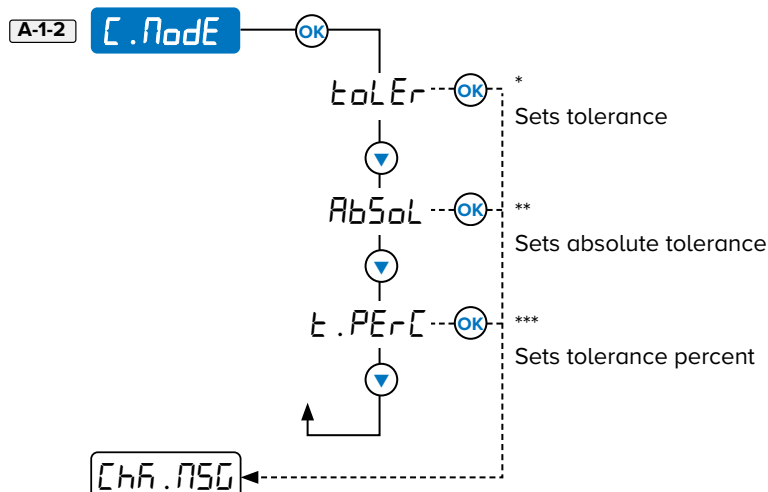
OK 5 Sec.

How to browse



C.Node - CHECK MODE

Configures the check weighing mode threshold tolerance.



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

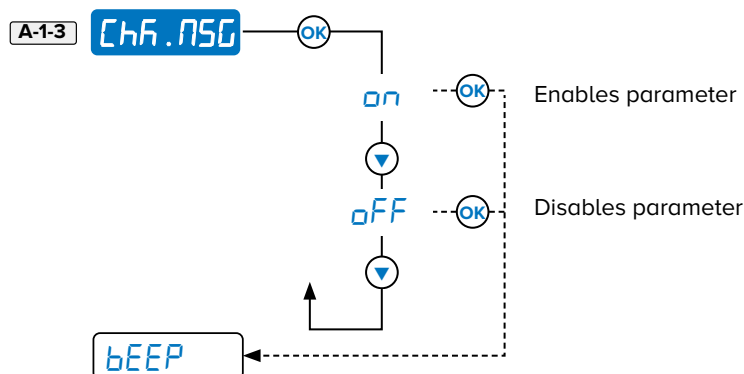
** Absolute Tolerance is set as weight values that limits the range in tolerance (for example, 990 g - 1010 g).

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

NOTE: When tYPE is configured as PCS, the tolerance is always set as Absolute and C.Node is not available.

Chk.NSG - CHECK MESSAGE

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



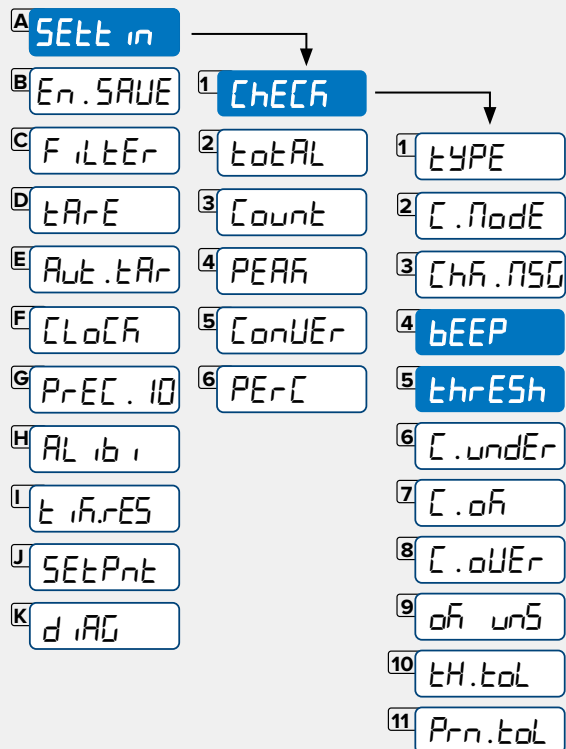
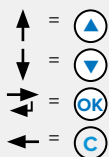


MENU

How to enter

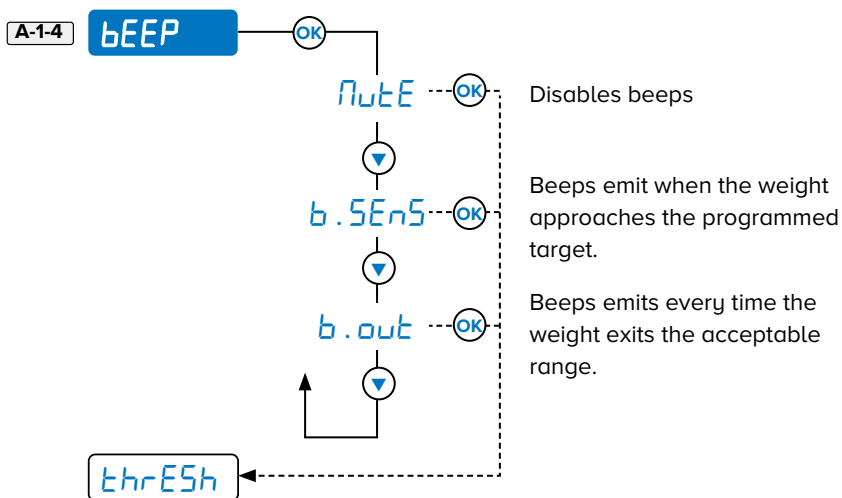
OK 5 Sec.

How to browse



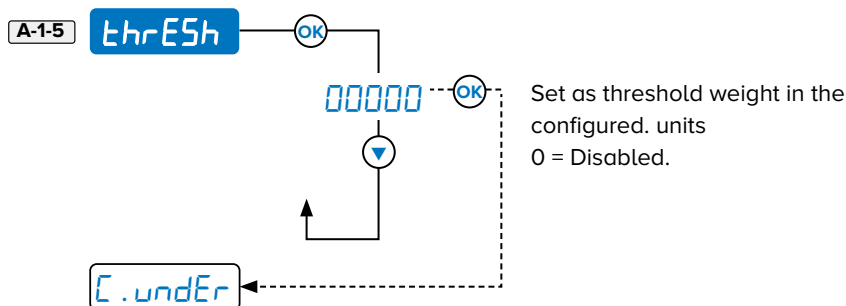
bEEP - CHECK WEIGH MODE BEEP

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



thrESH - CHECK WEIGH MODE THRESHOLD

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



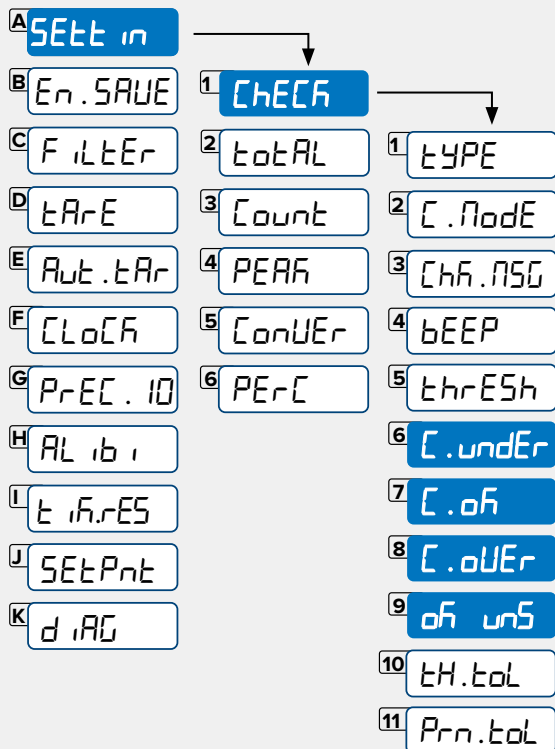


MENU

How to enter

OK 5 Sec.

How to browse



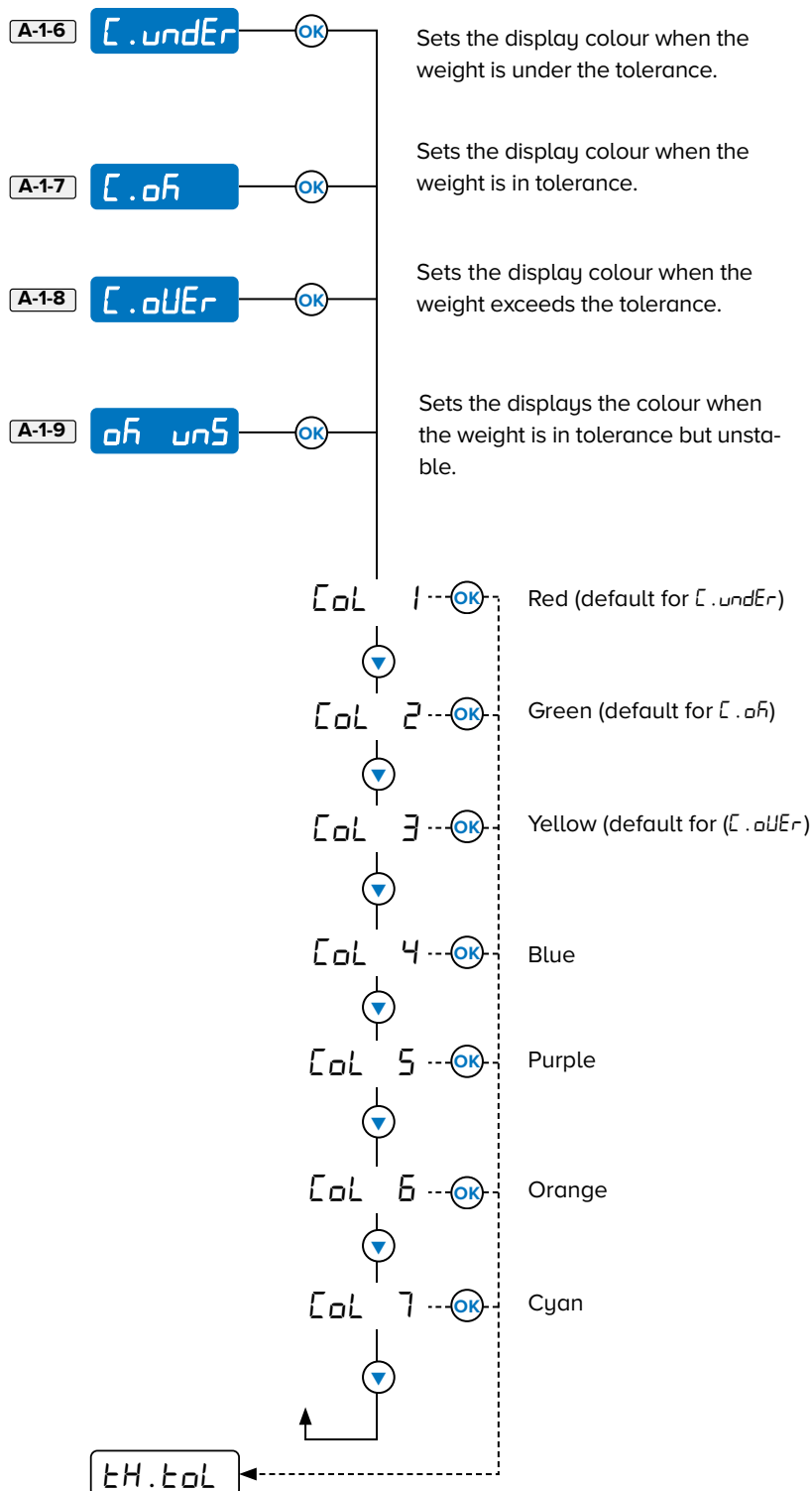
C.undEr - COLOR UNDER

C.oH - COLOR OK

C.oUEr - COLOR OVER

oH.unS - OK UNSTABLE

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



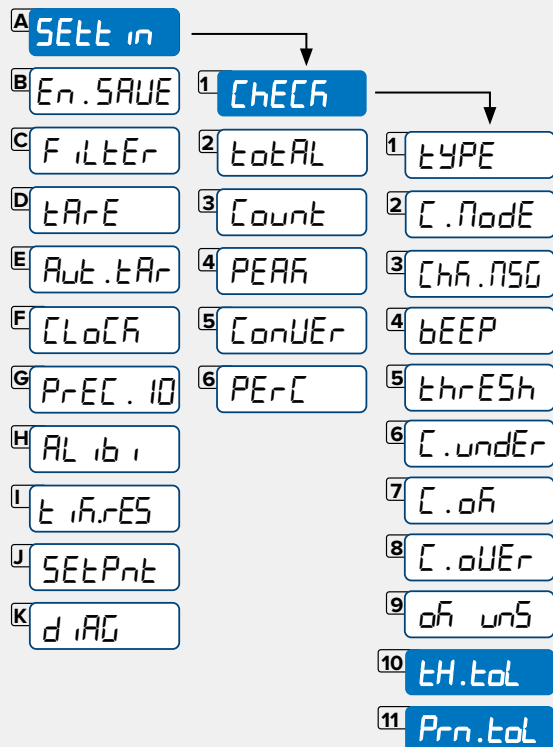


MENU

How to enter

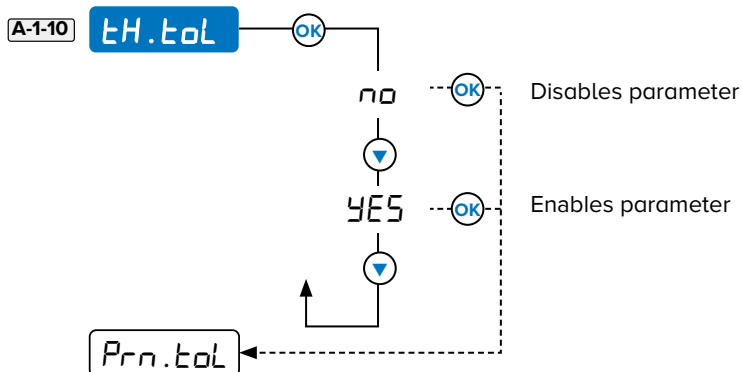
OK 5 Sec.

How to browse



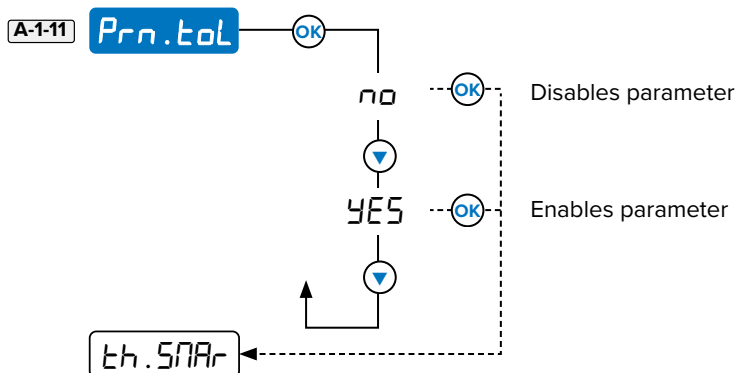
tH.tol - TRANSMISSION IN TOLERANCE

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



Prn.tol - PRINT TOLERANCE

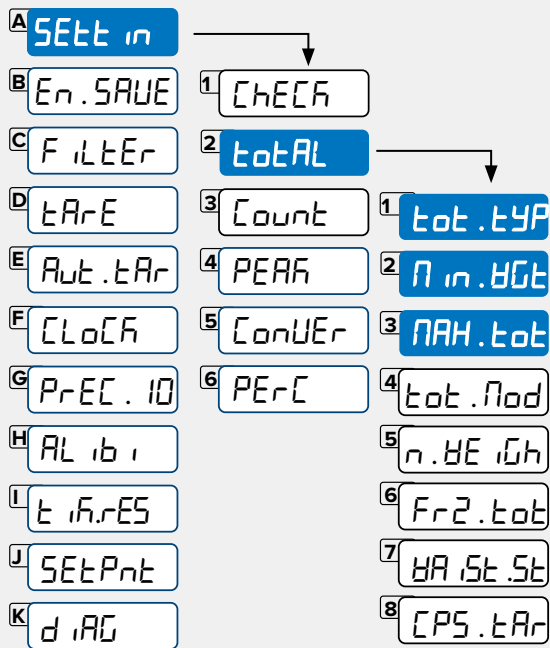
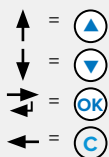
The Print key only functions if the weight is in check weighing tolerance.



How to enter

OK 5 Sec.

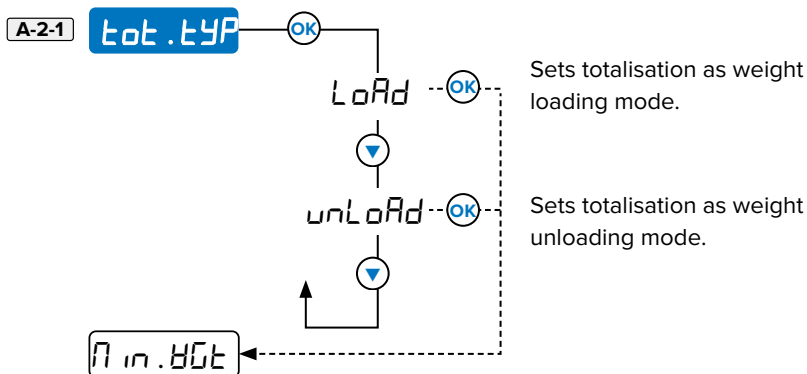
How to browse



totAL - TOTALIZATION

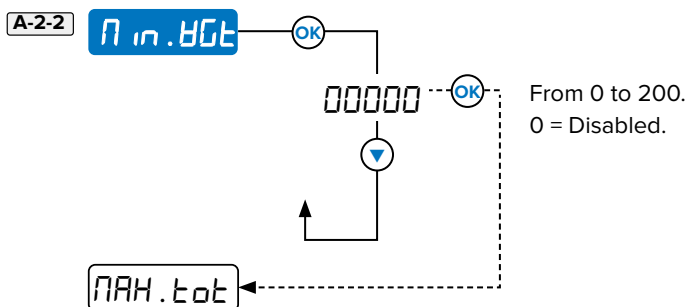
tot.tYP - TOTALIZATION TYPE

Configures how totalization mode functions.



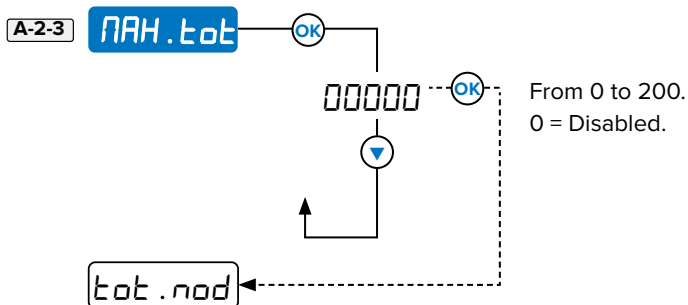
n in.WGt - MINIMUM WEIGHT

Configures the required minimum weight.



NAH.tot - MAXIMUM TOTALIZATION

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.



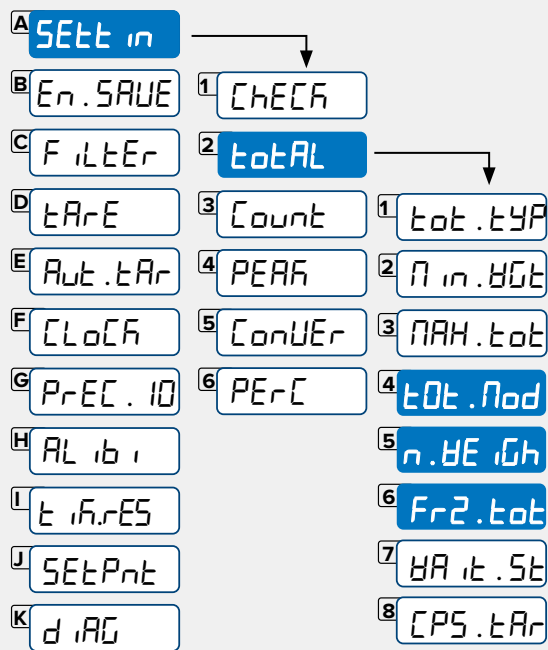
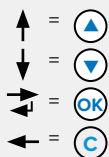


MENU

How to enter

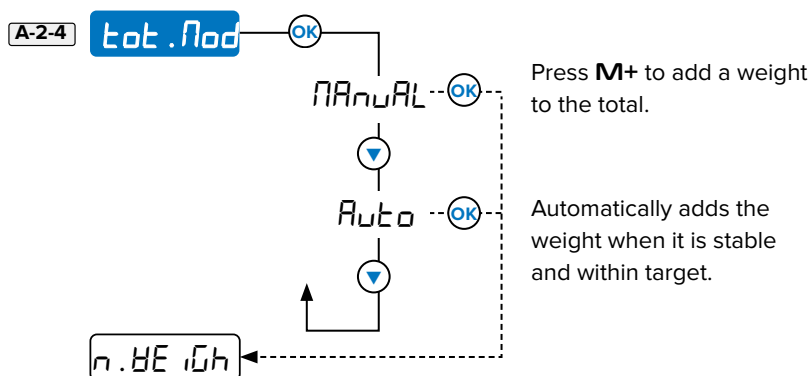
OK 5 Sec.

How to browse



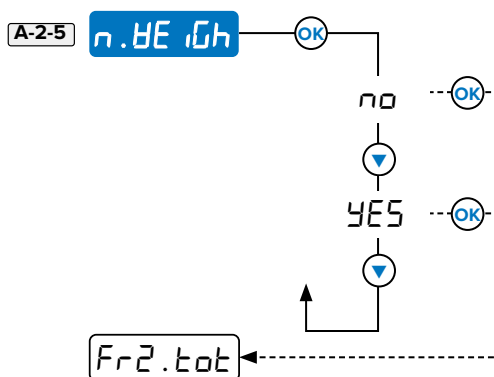
tot.Nod - TOTALIZATION MODE

Configures how weighments are added to the totalization value.



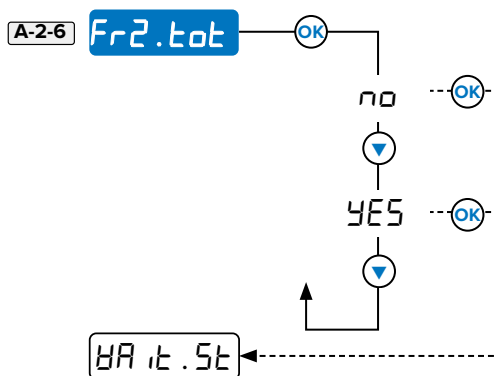
n.HE iGh - SHOW TOTALIZATION WEIGH NUMBER

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



Fr2.tot - FREEZE TOTAL

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



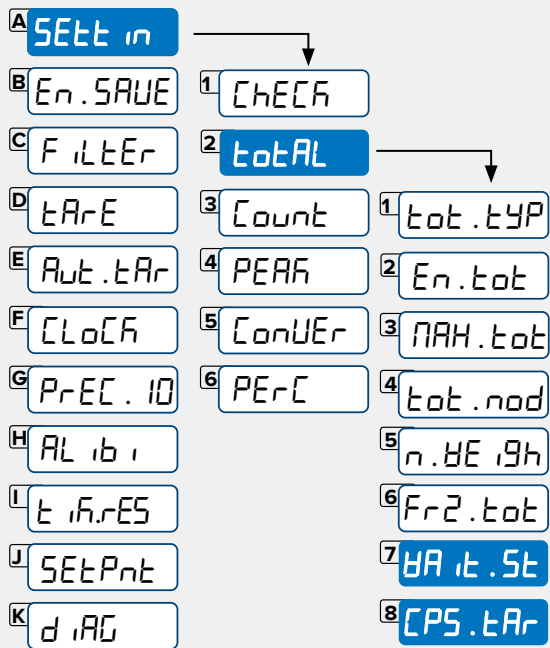
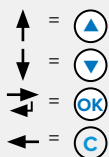


MENU

How to enter

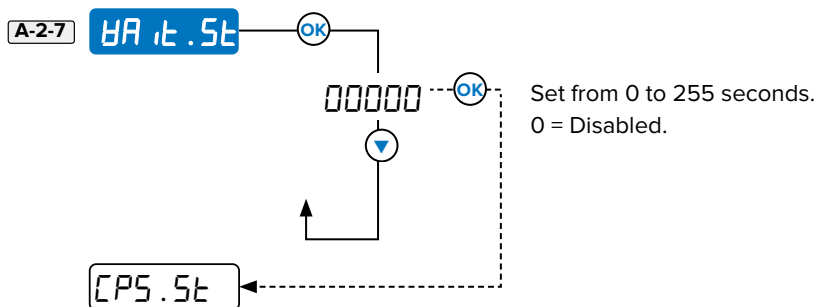
OK 5 Sec.

How to browse



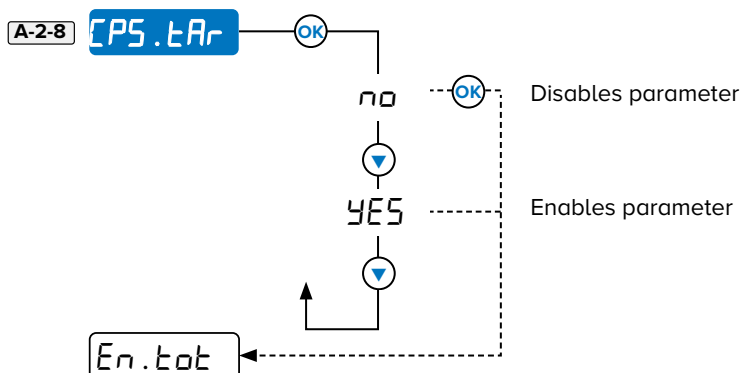
WA it.St - WAIT STABILITY

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.



CPS.tAr - COMPULSORY TARE

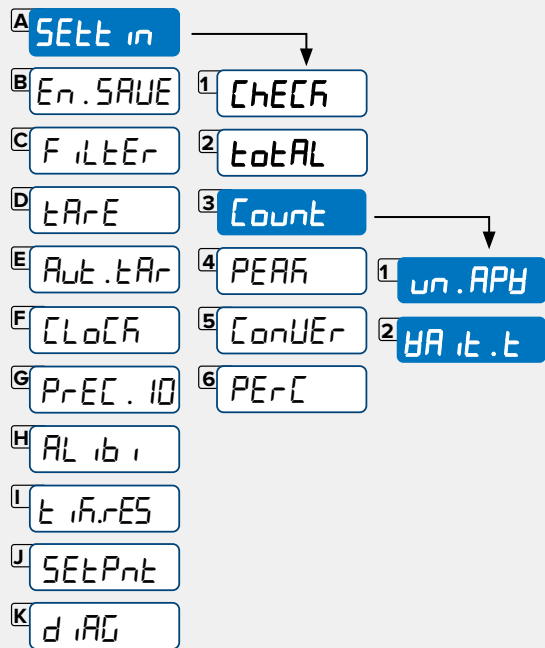
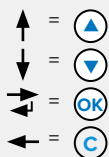
Configures the indicator to require a tare in order add weight to totalize.



How to enter

OK 5 Sec.

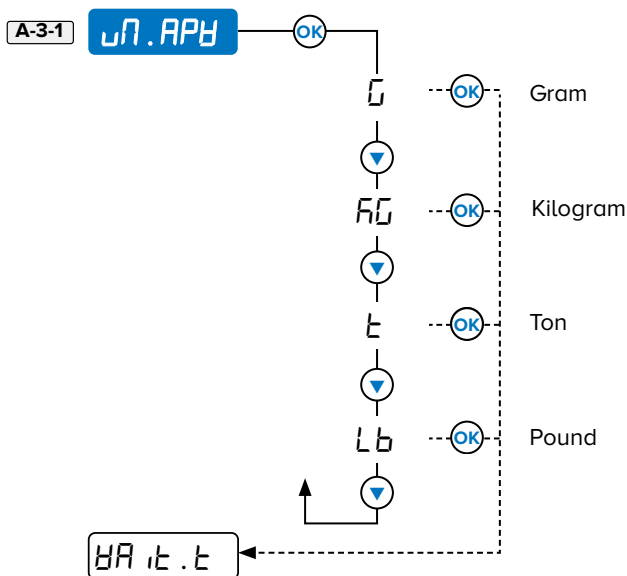
How to browse



Count - COUNTING MODE

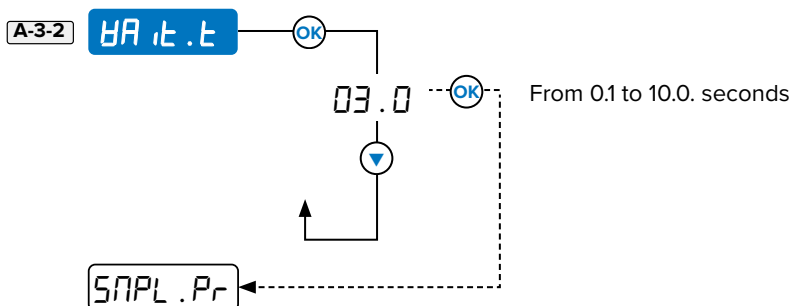
un.APM - UNIT OF MEASURE AVERAGE PIECE COUNT WEIGHT

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



wait.t - WAIT TIME SAMPLING

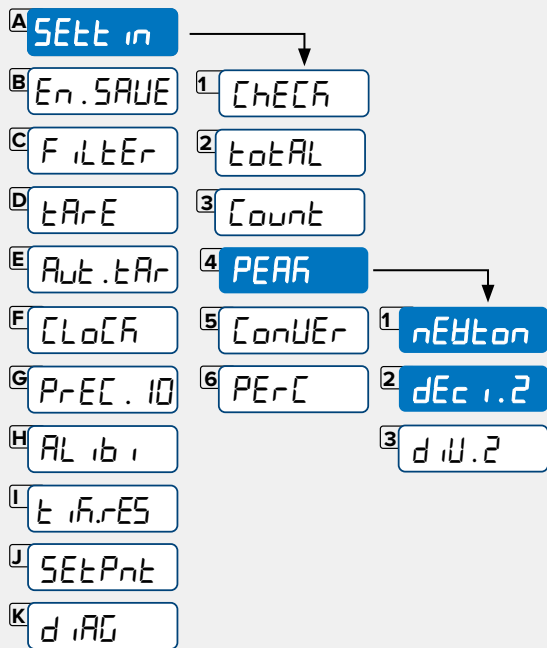
Configures the desired sampling time. When the time is increased, the sample acquisition precision increases.



How to enter

OK 5 Sec.

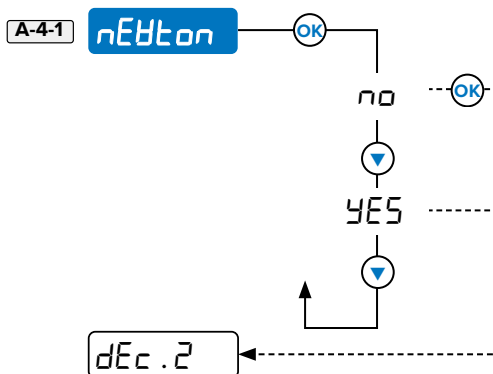
How to browse



PEAK - PEAK

nEttOn - NEWTON UNIT OF MEASURE

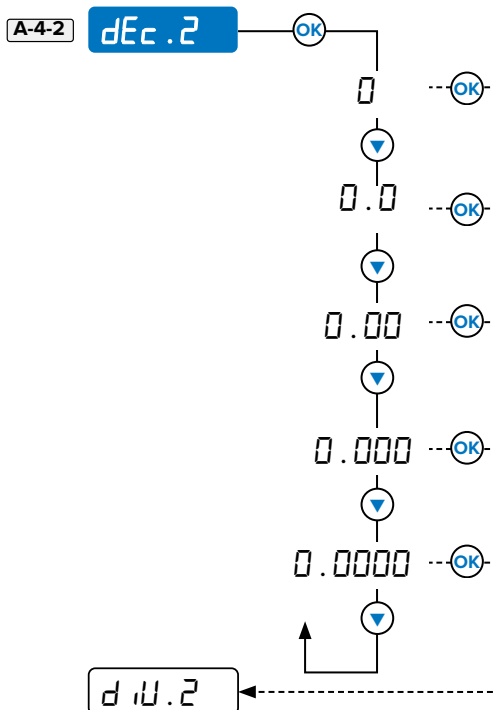
Enable if peak detection is kg or N.



dEc .2 - DECIMAL CONFIGURATION NEWTONS (ONLY IF NEWTON = YES)

 Only visible if nEttOn = YES.

Configures decimals quantity for Newton detection.



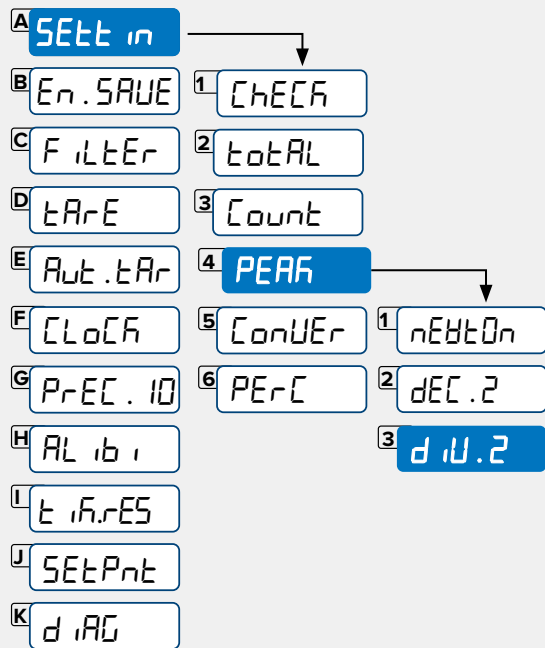


MENU

How to enter

OK 5 Sec.

How to browse

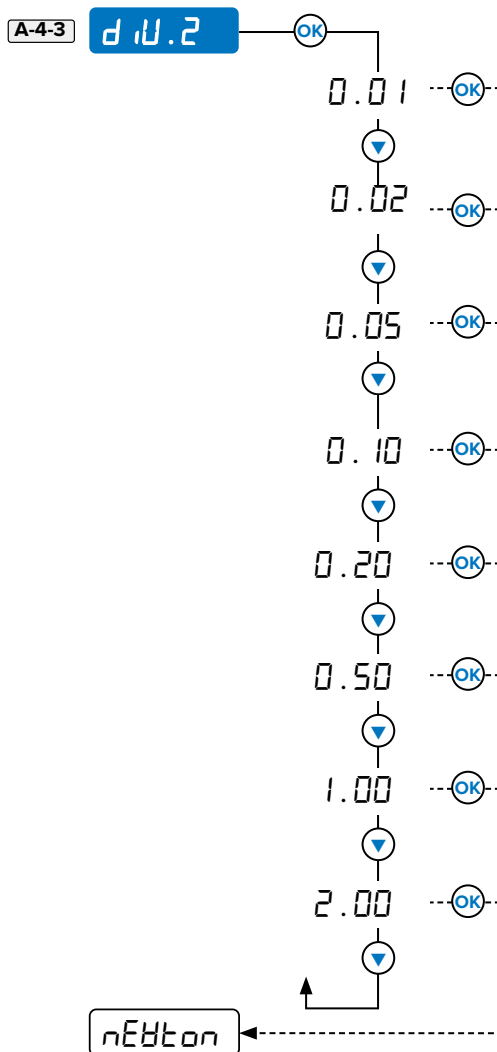


dU.2 - DIVISION CONFIGURATION NEWTONS (ONLY IF NEWTON = YES)



Only visible if nEWton = YES.

Configures divisions for Newton detection.



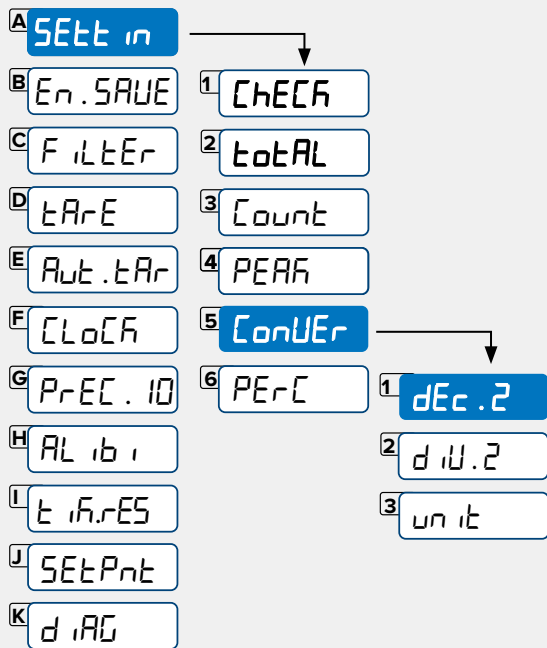


MENU

How to enter

5 Sec.

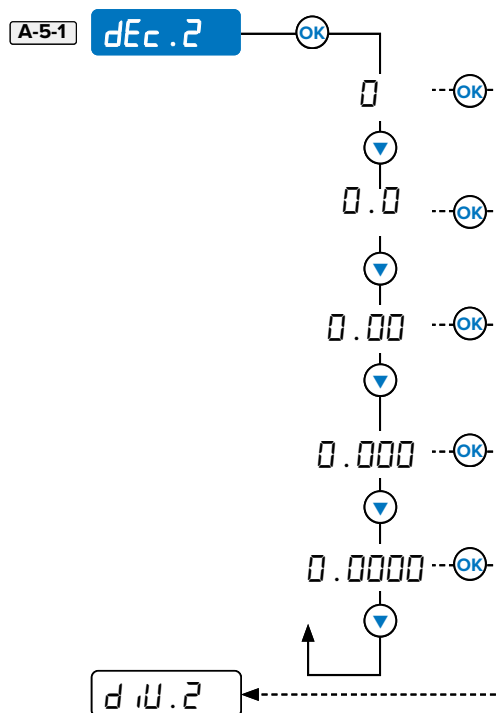
How to browse



ConUEr - Conversion

dEc.2 - DECIMAL QUANTITY FOR CONVERSION

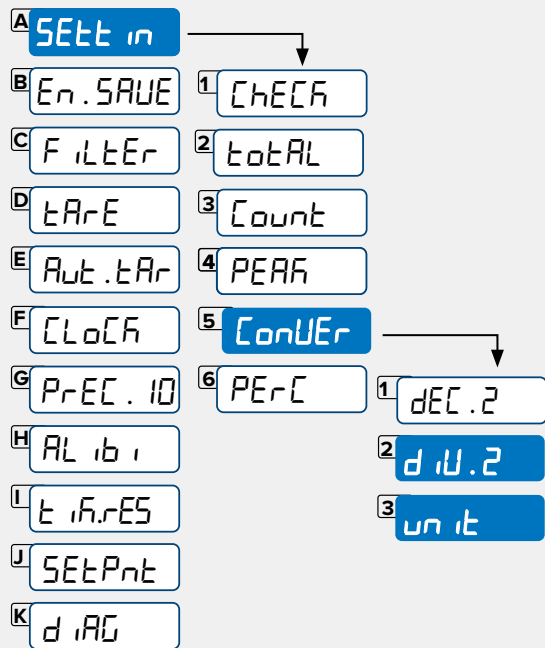
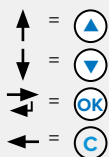
Configures decimals quantity for conversion.



How to enter

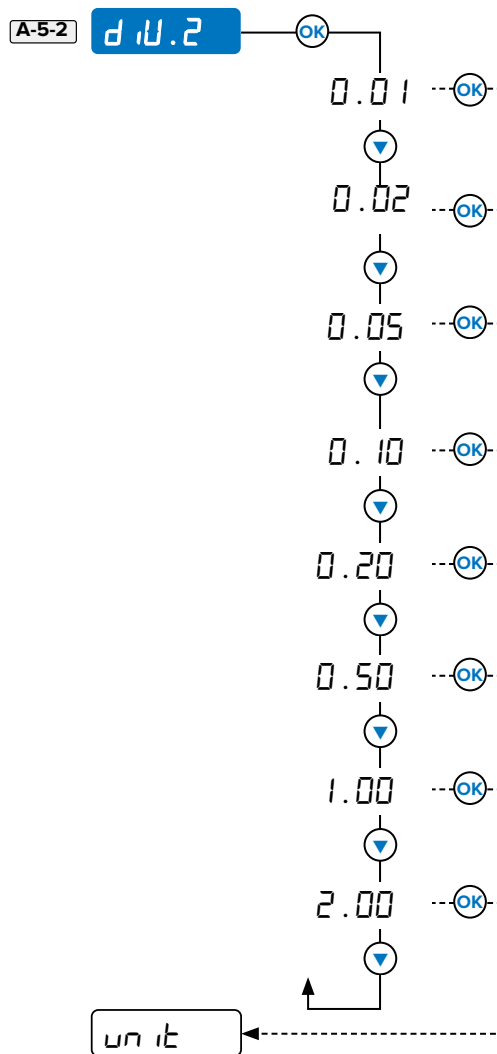
OK 5 Sec.

How to browse



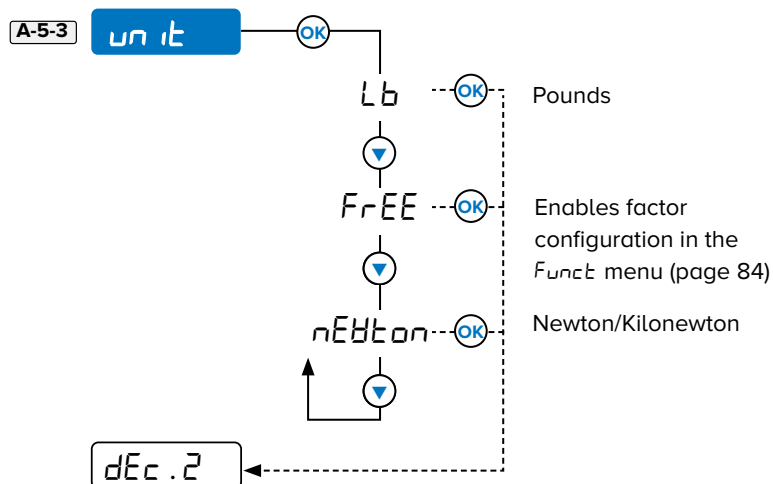
d.u.2 - DIVISIONS FOR CONVERSION

Configures the divisions for the conversion



unit - UNITS OF MEASURE FOR CONVERSION

Configures the units of measure for the conversion.



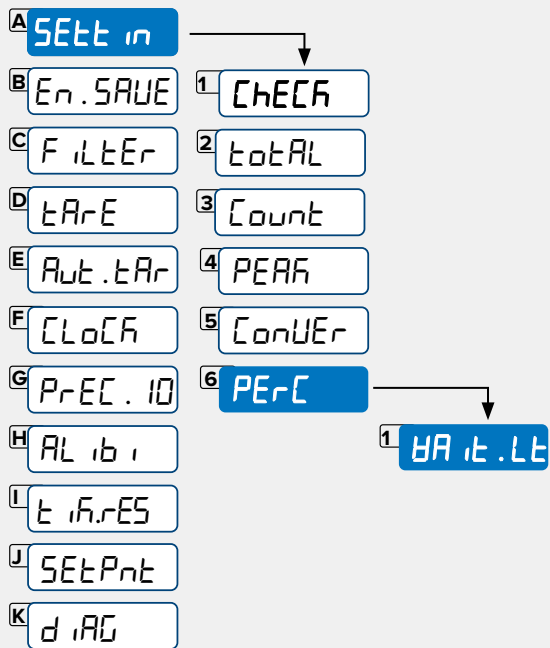


MENU

How to enter

 5 Sec.

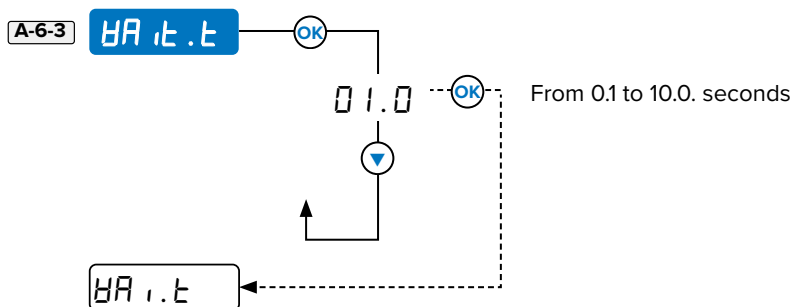
How to browse



PERC - Percentage

WAit.Lt - WAIT TIME SAMPLING

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



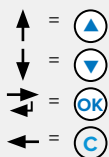


MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F iL tEr

D tArE

E Aut.tAr

F CLoCh

G PREC. 10

H AL ib i

I t iFrES

J SEtPnt

K d iAG

1 SCrEEen

2 AutoFF

1 bAh.L it

2 br iGht

3 LoCh

2 CoLOUR

3 dSP.rF

En.SAVE - ENERGY SAVE

SCrEEen - ADJUSTING THE DISPLAY

bAh.L it - BACKLIGHT

B-1-1

bAh.L it

OK

no

OK

Backlight off

YES

OK

Backlight always on

Auto

OK

t iNE

OK

t 005

OK

Set the time from 0 to 200 in seconds (default = 005)

br iGht

The backlight turns off after the set time of inactivity.

br iGht - BRIGHTNESS

B-1-2

br iGht

OK

brGt 0

OK

Turns backlight off

brGt 1

OK

Sets dimmest illumination.

...

OK

brGt 5

OK

Sets brightest illumination.

LoCh



MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En. SAUE

C F iL tEr

D tArE

E Aut. tAr

F CLoCh

G PrEC. 10

H AL ib i

I t hRES

J SEtPnt

K d iAG

1 SCrEEen

2 AutoFF

1 bAFh. L it

2 br iGht

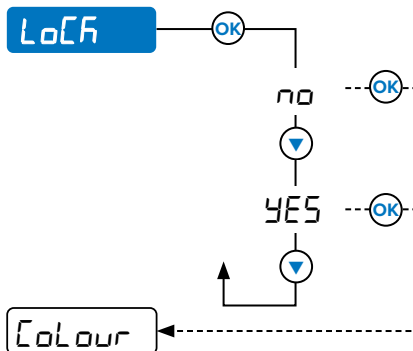
3 LoCh

4 CoLour

5 dSP. rF

LoCh - DISPLAY LOCK (for manufacturer use)

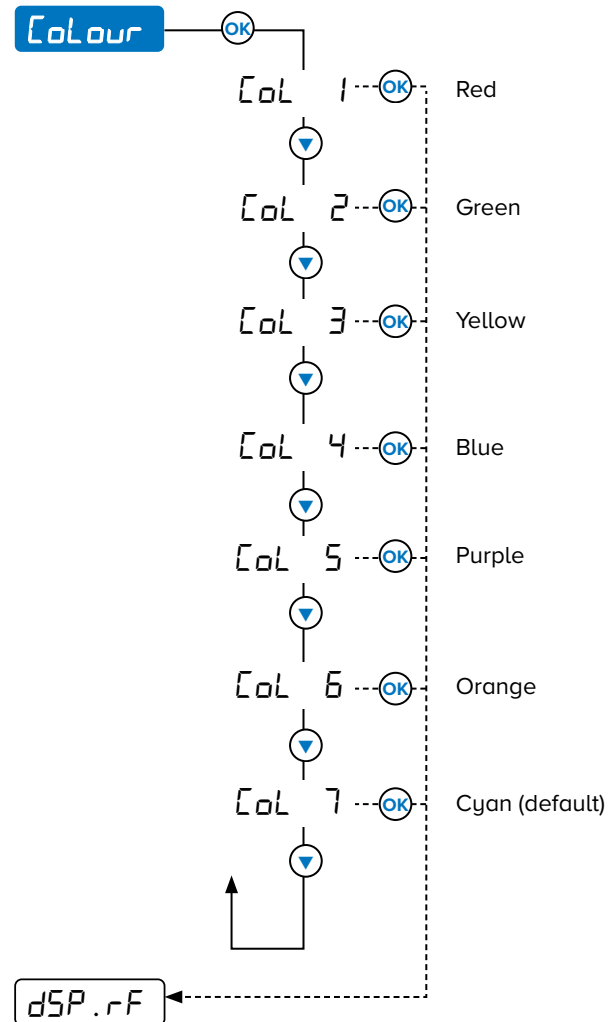
B-1-3



CoLour - COLOUR

Configures the backlight to display a specific colour.

B-1-4



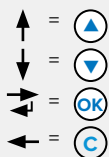


MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F iLteR

D tArE

E Aut.tAr

F CLoCk

G PREC. 10

H AL ib i

I t iFrES

J SEtPnt

K d iAG

1 SCrEEen

2 AutoFF

1 bAF.L it

2 br iGht

3 LoCk

4 CoLOUR

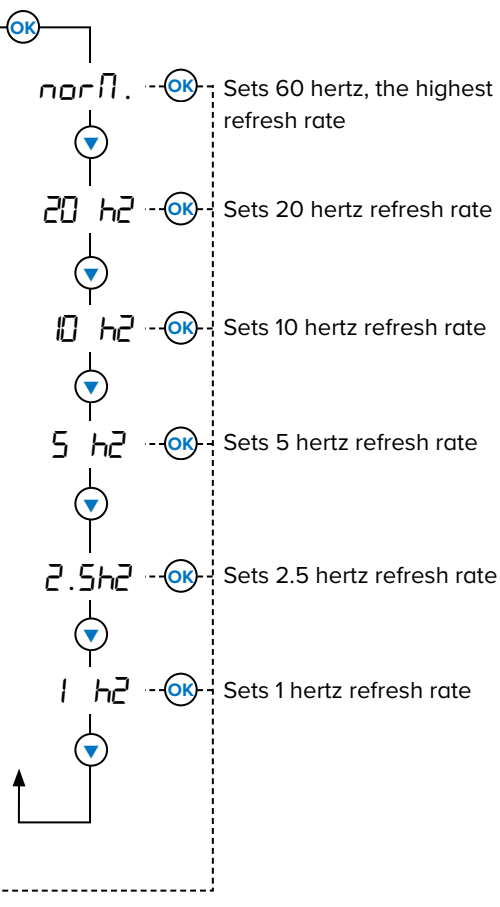
5 dSP.rF

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.

B-1-5

dSP.rF

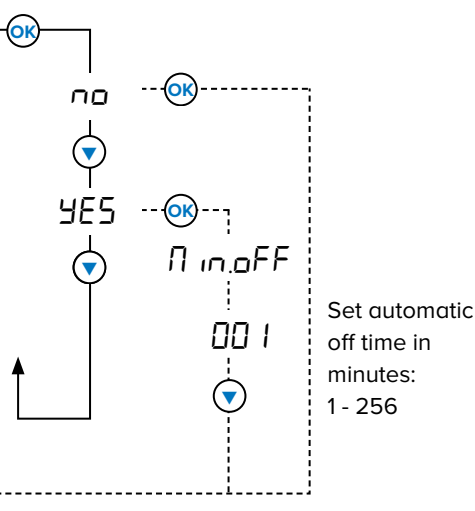


AutoFF - AUTOMATIC POWER OFF

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

B-2

AutoFF



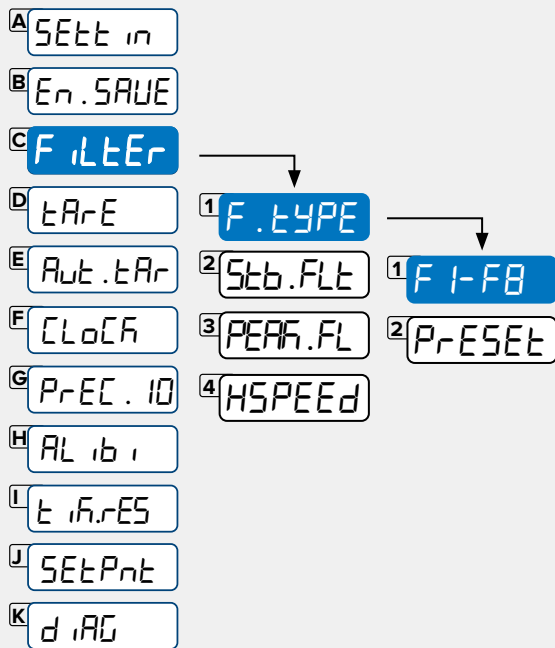
Set automatic
off time in
minutes:
1 - 256

How to enter

 5 Sec.

How to browse

 = 
 = 
 = 
 = 



F ILtEr WEIGHING FILTERS



To change the responsiveness of the scale.

This is useful to adjust the scale according to your needs.



With an approved instrument, it is not possible to change the filter.

“F B” represents the lowest filtering incidence.

By increasing the incidence, the weight becomes more stable.

It is advisable to carry out several weighing operations by changing the incidence until the best compromise between responsiveness and stability is achieved.

C-1-1

F 1

Filter at 6 Hz.

C-1-2

F 2

Filter at 12 Hz.

C-1-3

F 3

Filter at 25 Hz.



Standard filter for legal for trade configurations

C-1-4

F 4

Filter at 50 Hz.



C-1-5

F 5

Filter at 100 Hz.



C-1-6

F 6

Filter at 200 Hz.



C-1-7

F 7

Filter at 400 Hz.



C-1-8

F 8

Filter at 800 Hz.



C-1-9

CuStoM



NOTE: Filters F 3 through F 8 are filters suitable for legal for trade applications.



How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F ILtEr

D tArE

E Aut.tAr

F CLoCh

G PrEC. ID

H AL ib i

I t iArES

J SEtPnt

K d iAG

1 F .tYPE

2 Stb.FLt

3 PEAR.FL

4 HSPEED

1 F I-FB

2 PrESEt

PrESEt PRESET FILTERS (Internal use)

When enabled, preset Filters automatically set additional specific parameters. The purpose of PL .PF (Place and Pick) presets are to facilitate high speed weighing situations for bench or floor scales; by combining high speed display reactions with a high resistance to disturbances and vibrations.

In addition, the preset doSAGE filter always includes these parameters to facilitate stable and fast dosing.

The preset filters combine stability filters (PEAR.FL, t iArES, Stb.FLt, D tArE, D tArE.SP) with the XSpeedTool's parameters.

C-1-2 PL .PF.hr

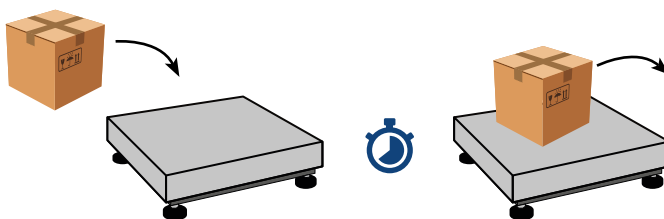
Filter at 100 Hz. Place and pick high resolution.

PL .PF.St

Filter at 200 Hz. Place and pick standard. **This the standard filter for non legal for trade configurations**

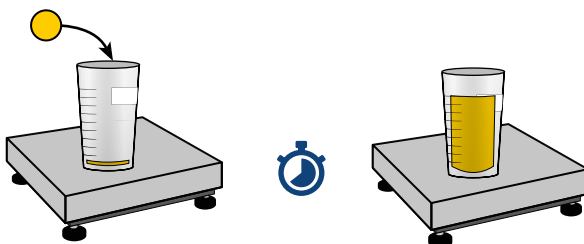
PL .PF.FS

Filter at 400 Hz. Place and pick fast



doSAGE

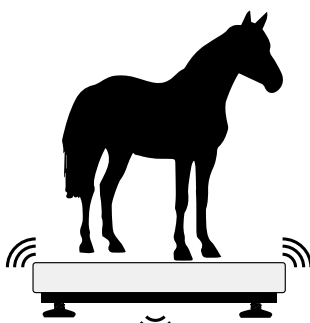
Filter at 200 Hz. Stable fast filter with a high refresh rate of display



The Animal filter holds the weight of an animal based on division and time PEAR.FL and HSPEED parameters. The purpose of the filter is to capture the weight of an animal that is moving.

NOTE: To increase measurement accuracy, increase the time duration in the PEAR.FL parameter. To operate faster, decrease the time duration in PEAR.FL parameter (increase the PEAR.FL division band). Increasing the speed will reduce the weight accuracy.

AN iMAL



The following table, details the parameters that are automatically set when a preset filter is selected:

PRESET FILTER	PARAMETER COFIGURATION
PL.PK.HR (Place and Pick High Resolution)	rRtE: 100 Hz
	F _{inE} :
	URLuE: 0.05
	CYcLE5: 9
	StEb.tn: 1000
	n _{in} .URr: 50
	DErR: 1d
	DErL.SPd: 220
	t _n .StEb: 150
PL.PK.ST (Place and Pick Standard)	rRtE: 200 Hz
	F _{inE} :
	URLuE: 0.06
	CYcLE5: 9
	StEb.tn: 1000
	n _{in} .URr: 50
	DErR: 1d
	DErL.SPd: 250
	t _n .StEb: 150
PL.PK.FS (Place and Pick Fast)	rRtE: 400 Hz
	F _{inE} :
	URLuE: 0.08
	CYcLE5: 9
	StEb.tn: 1000
	n _{in} .URr: 50
	DErR: 1d
	DErL.SPd: 220
	t _n .StEb: 150
DOSAGE	rRtE: 200 Hz
	F _{inE} :
	URLuE: 0.07
	CYcLE5: 9
	DErR: 1d
	DErL.SPd: 250
ANIMAL	t _n .StEb: 150
	rRtE: 50Hz
	F _{inE} :
	URLuE: 0.10
	CYcLE5: 9
	PF.LF.dU: 02
	PF.LF.tn: 1.00
	PF.dU: 100
	PF.bn.dU: 50
	PF.tnE: 1.00

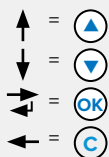


MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C FILTER

D tArE

E Aut.tAr

F CLocK

G PREC. 10

H AL ib i

I t iArES

J SEtPnt

K d iAG

1 F.tYP

2 Stb.FLt

3 PEAR.FL

4 HSPEED

1 Stb.t iN

2 n in.UAr

1 PFLF.dU

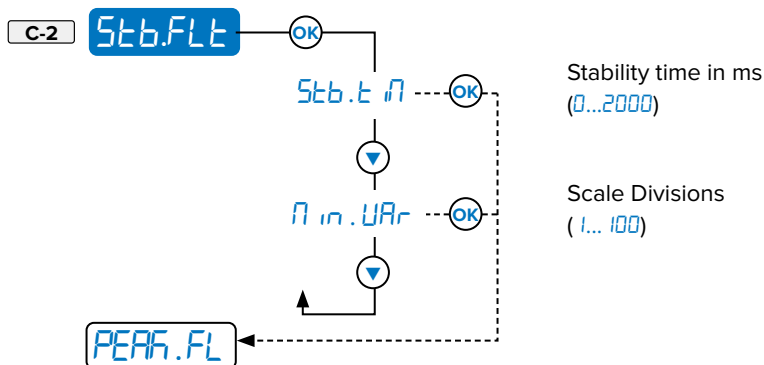
2 PFLF.tN

3 PFL.d iU

4 PFL.bn.dU

5 PFL.t iNE

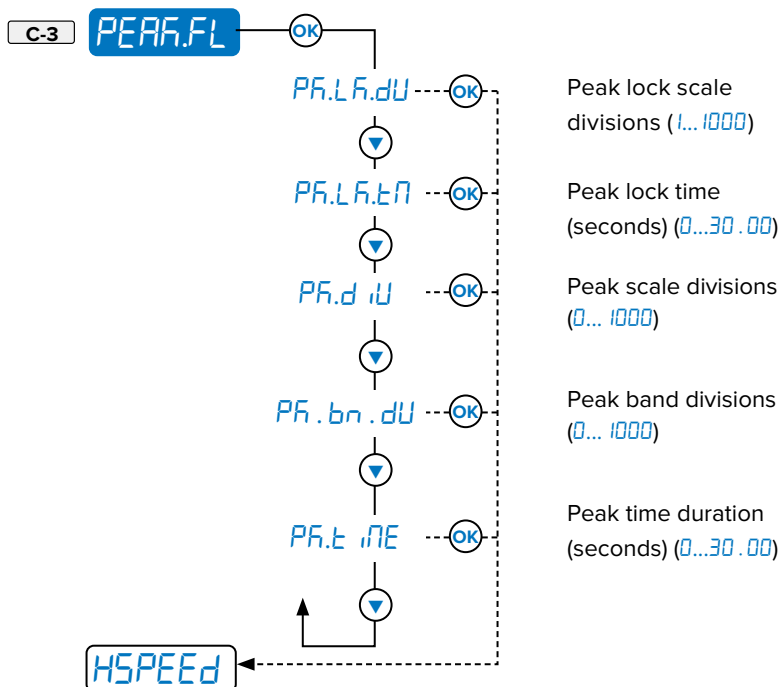
Stb.FLt STABILITY FILTER (Internal Use Only)



Stability filter locks the weight if it oscillates around a value set in **n in.UAr** for the time set in **Stb.t iN**. The weight unlocks if the value increases/decreases greater than the divisions set in **n in.UAr**.

To disable, set as 0.

PEAR.FL ANTI-PEAK FILTER (Internal Use Only)



PFLF.tN, PFL.d iU, PFL.bn.dU, PFL.bn.dU, PFL.t iNE visible if PFLF.dU = 1 - 1000

Filter that eliminates vibration and sudden weight peaks (for example, shocks or falling material).

- If the weight oscillates for the division set in **PFLF.dU** and the time set in **PFLF.tN**, it locks.
- The weight must stay in the division band set in **PFL.bn.dU** to be stable. If it exceeds the band for a greater amount of time than **PFL.t iNE**, it is unstable and unlocks.
- If the weight exceeds the value set in **PFL.d iU**, it is unstable and unlocks.



MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C FILTER

D tArE

E Aut.tAr

F CLoCK

G PREC. 10

H AL ib i

I tArES

J SEtPnt

K d iAG

1 F.tYP

2 Stb.Flt

3 PEAK.FL

4 HSPEED

1 rAtE

2 CoArSE

3 F inE

HSPEED XSPEED FILTERS



With an approved instrument, it is not possible to change the filter.

Sets the sample rate for the XSpeed tool filters.

C-4-1

rAtE

OK

6

OK

= 6 Hz

12

OK

= 12 Hz

25

OK

= 25 Hz

50

OK

= 50 Hz

100

OK

= 100 Hz

200

OK

= 200 Hz

400

OK

= 400 Hz

800

OK

= 800 Hz

1600

OK

= 1600 Hz

3200

OK

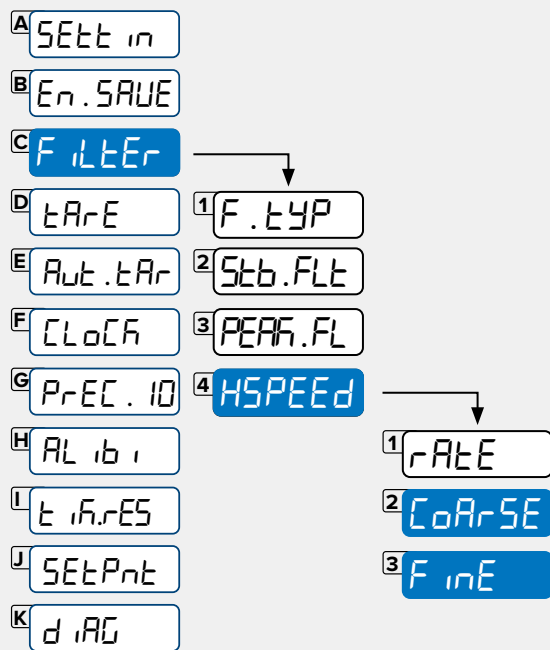
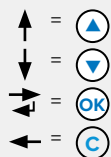
= 3200 Hz

CoArSE

How to enter

OK 5 Sec.

How to browse

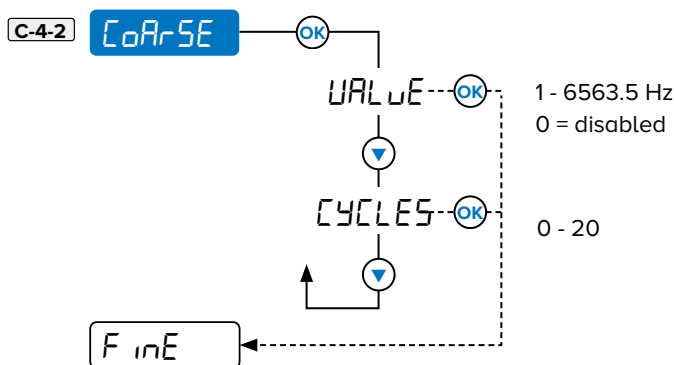


The Coarse filter has two configurable parameters. The first parameter (UAlUE) defines the filter that removes signal vibrations and is defined in hertz. The second parameter (CYCLEs) defines the quantity of instances of the filter.

A smaller value configuration causes a larger filter action.

NOTES:

- This parameter should be configured in conjunction with the XSpeed Tool
- rAtE should be configured to at least 100 Hz

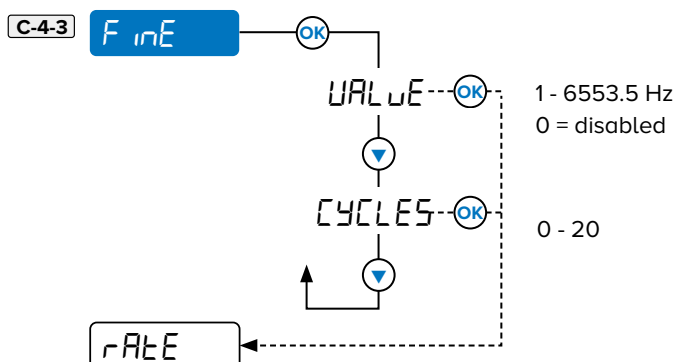


The Fine filter has two configurable parameters. The first parameter is removes signal oscillations and is defined hertz. The second parameter defines the quantity of instances of the filter.

A larger value configuration causes a larger filter action.

NOTES:

- This parameter should be configured in conjunction with the XSpeed Tool
- rAtE should be configured to at least 100 Hz



How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F iL tEr

D tArE

E Aut.tAr

F CLoCh

G PREC. 10

H AL ib i

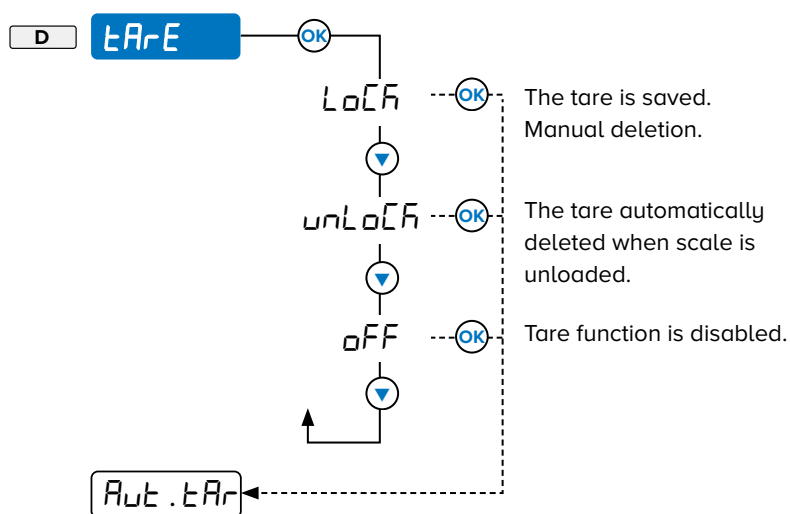
I t iArES

J SEtPnt

K d iAG

tArE - TARE

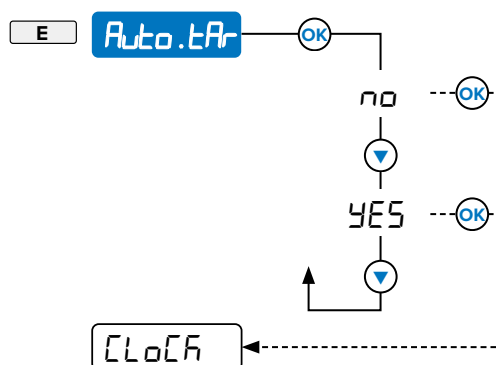
Configures how the tare operates.



Aut.tAr - AUTOMATIC TARE

Tare automatically occurs when the weight is stable:

- If $rERRt \rightarrow inst \rightarrow n.d.iUS$ is configured, the minimum tare must be equal or greater than the set divisions.
- If $rERRt \rightarrow ZErr$ is set, no minimum value is required.



For more info about $rERRt$, see technical manual.



MENU

How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F ILtEr

D tArE

E Aut.tAr

F CLoCh

G PrEC. 10

H AL ib i

I t iArES

J SEtPnt

K d iAG

1 dAY

2 Month

3 YEAr

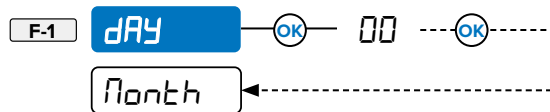
4 hour

5 Minute

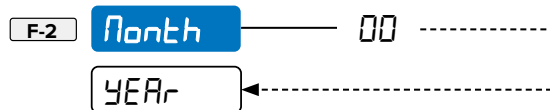
CLoCh - DATE AND TIME

Sets the indicator date and time.

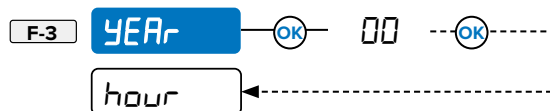
Day



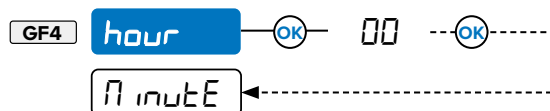
Month



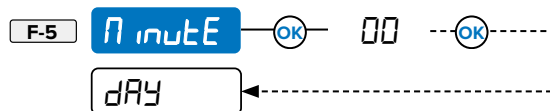
Year



Hour

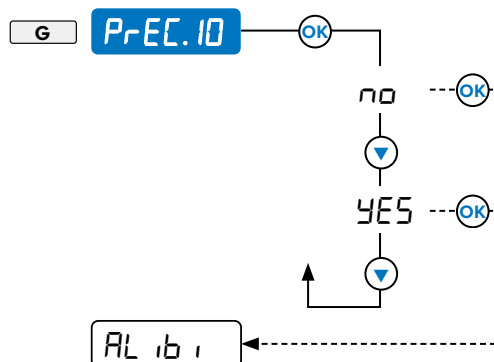


Minute



PrEC. 10 - HIGH RESOLUTION READING DIVISION

Displays the weight with ten times greater resolution





MENU

How to enter

5 Sec.

How to browse



A SEt in

B En.SAVE

C F iLteR

D tArE

E Aut.tAr

F CLoCk

G PREC. 10

H ALibi

I tArES

J SEtPnt

K d iAG

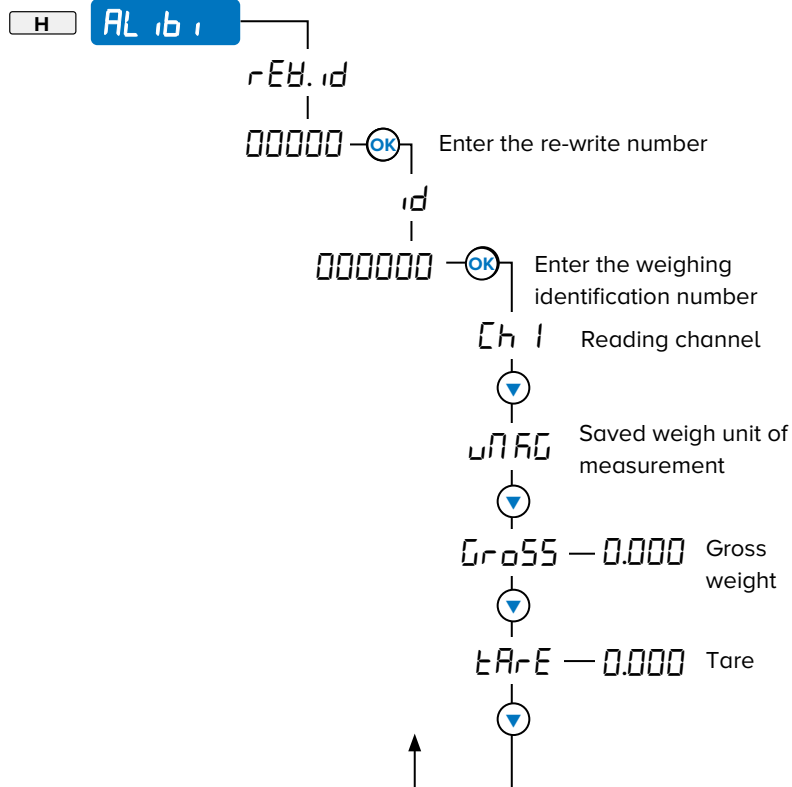
ALibi - ALIBI MEMORY READING



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.



How to enter

OK 5 Sec.

How to browse



A SEt in

B En.SAVE

C F ILtEr

D tArE

E Aut.tAr

F CLoCk

G PrEC. 10

H AL ib i

I t rES

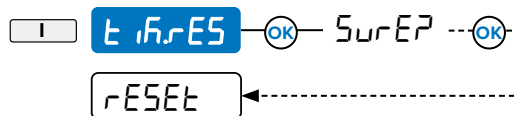
J SEtPnt

K d iAG

t rES - TICKET NUMBER RESET

Resets the progressive ticket number.

NOTE: For more information about the ticket number, see the LAYout ► t rES parameter in the DFWXS Technical Manual.

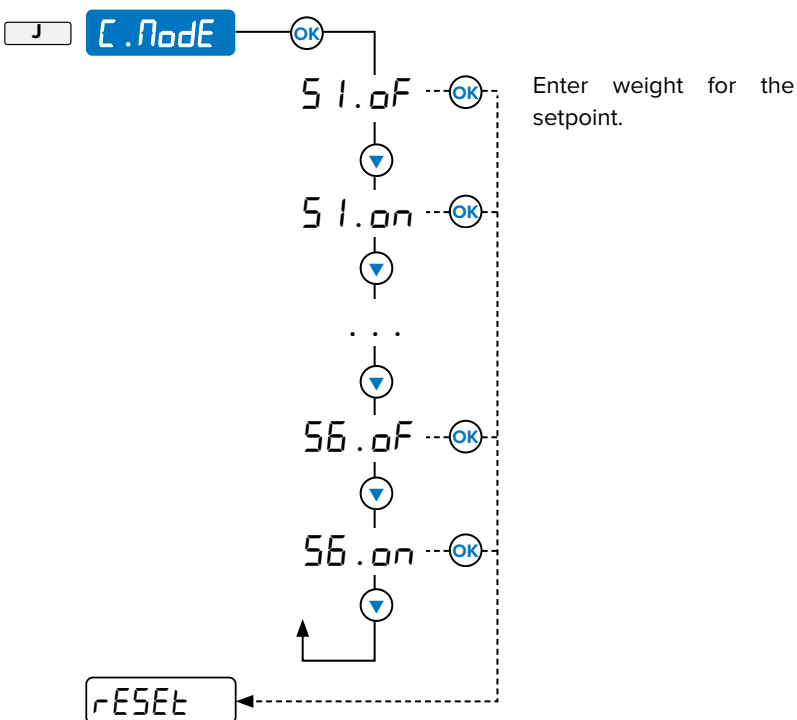


SEtPnt - SETPOINT

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 (S l.on to S6.on) and setpoint off (S l.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.



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.



Setpoints can be associated with a specific color. For more information, the DFWXS technical manual.



MENU

How to enter

 5 Sec.

How to browse

↑ = 
↓ = 
→ = 
← = 

A SEtE in

B En.SAUE

C F iLtEr

D tArE

E Aut.tAr

F CLoCk

G PrEC. 10

H AL ib i

I tArES

J SEtPnt

K d iAG

d iAG - DIAGNOSTICS

K

d iAG



Reserved for manufacturer use.

FAQ

Frequently Asked Questions

PRINT	127
ACCUMULATION	127
TARE	127
WEIGHING	128
PIECE COUNTER	128

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 (LdB)
- Underload or overload (----- o -----) (un.oUEr)
- The scale was not loaded after the last printing (na.O.unS)
- 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 (LdB)
- Underload or overload (----- o -----) (un.oUEr)
- The scale was not unloaded after the last printing (na.O.unS)
- The weight is insufficient for weighing (LdB)
 - less than the configured value in rEREt ► unSt ► n.d.iUS (see DFWXS technical manual)
 - 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 (LdB)
- The weight is insufficient
- The weight exceeds the maximum capacity
- The tare function has been deactivated (see page 121)
- 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 “2Err” 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 116).
- 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 . Plat*)
- The weight is insufficient, add more pieces and try again (*Error*)

ERROR MESSAGES

MESSAGE	DESCRIPTION	SOLUTION
<i>buSy</i>	Another printout is already in progress	Wait for the printout in progress to be finished and try again.
<i>unStAb</i>	The weight is unstable	Check the weighing filter (see page 116). If the support surface is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.
<i>LoH</i>	The net or gross weight is negative or insufficient for printing	Add weight and try again.
<i>un.oUEr</i>	Underload o overload (<u> </u> o <u> </u>)	Restore a valid weight condition. If the problem persists, contact customer service.
<i>no.O.unS</i>	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.
<i>Err.NoSt</i>	The weight is unstable	Wait for stability (the ~ light) and try again.
<i>Error</i>	In piece counting mode, the weight is insufficient for proper sampling.	Add more pieces and try again.

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]

**HEAD OFFICE**

Via Della Fisica, 20
41042 Spezzano di Fiorano, Modena - Italy
Tel. +39.0536 843418 - Fax. +39.0536 843521
info@diniargeo.com

SERVICE ASSISTANCE

Via Dell'Elettronica, 15
41042 Spezzano di Fiorano, Modena - Italy
Tel. +39.0536 921784 - Fax. +39.0536 926654
service@diniargeo.com

Stamp of the authorized service center

