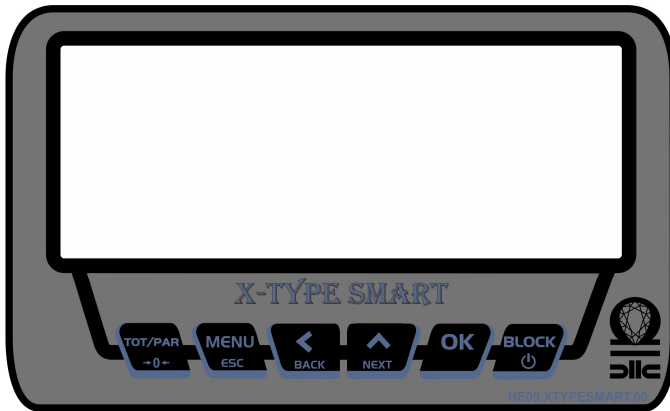
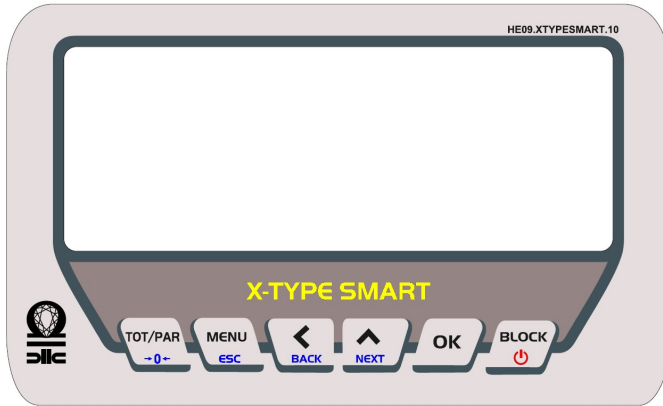




X-TYPE SMART

USER GUIDE



10 RECIPES / 15 COMPONENTS / 10 DISCHARGES

FİRMA BİLGİLERİ:

Index

ENGLISH

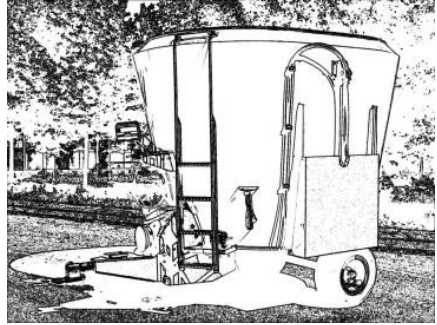
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1- DESCRIPTION

X-TYPE SMART weighing indicator is a special device designed for preparing ration and being used in feed mixer trailers

It operates free of problems in the harsh conditions of the farm such as hot, cold, humidity, quake, dust, sun.

Besides, it is the greatest helper of the operator to prepare feed ration and to the distribute it to the pinfolds as it is easy and simple to use, it has big and red display which can be easily seen from far away and an instructive monitor for diagram information and advanced menu features.



X-TYPE SMART, helps to prepare the rations accurately, to increase the quality of the feed and thus it helps to enhance the fertility and health of the animals if the instructions on the monitor are complied with.



Read the warnings carefully and understand them thoroughly

2- WARNINGS

The user guide introduces you the essential rules of correct installation, usage and programming. To understand and follow the instructions clearly is crucial.



- **Read X-TYPE SMART user guide to learn how to install weighing system and how to make the electrical connections before starting to use.**

Manufacturer/importer company is not legally liable for the indirect and direct damages resulting from the use of accessories and replacement parts which are not original and not stated in the user guide hereby or/and electrical problems, operation defaults.



While welding to the feed mixer trailer, disassemble all cable connections of the indicator.



In case you wash the feed mixer machine with pressurized water, protect the indicator, connection box and load cells.

For the cleaning of the indicator, use a wet cloth and mop it without bearing down on it too hard.

Do not connect the power to a trailer having broken charge regulator. Manufacturer/importer company is not responsible from the damages which will occur.

The power of X-TYPE SMART should come directly from the power supply of the trailer or from a DC source which is well rectified and should be in between the range stated on the technical table. Otherwise, manufacturer/importer company is not liable for the damages which will occur because of this.

Keep the original package. Use it during a transportation if necessary.

3- TECHNICAL INFORMATION

General

X-TYPE SMART is just suitable for weighing and preparing ration with weighing in the stable and mobile feed mixer trailers. It is not used for commercial weighing tools used for selling and purchasing goods.

Dimensions

Package Dimensions	175 x 285 x 160 mm
Indicator Dimensions	206 x 148.5 x 68 mm
Net Weight	992g
Gross Weight	1921g

Technical Features

Weighing Range	0 – 99.999
Divisions	1-2-5-10-20-50
Max. Sensibility	1 / 30.000
Temperature Coeff.	2 ppm/°C
Accuracy	< ±0,015 % F.S.
Non-linearity	0,0012 % F.S.
Operating Temperature	-10 / +45 °C
Operating Humidity Rate	85 % RH (uncondensed)
LCD display	6,5 inch, white backlight 6 digit 34mm 7 segment, 14 digit 16mm alphanumerical
Keypad	6 mechanical buttons
Power	9-36 VDC
Body	Additive ABS
Connectors X-TYPE SMART ¹	Military Type, water protected IP68 connectors 2 pin: Power connector 5 pin: Loadcell connector 7 pin: Alarm connector
Connectors X-TYPE SMART ²	Military Type, water protected IP68 connectors 3 pin: Power and alarm connector 5 pin: Loadcell connector
Standard Accessories	Loadcell cable, Power cable ¹ , Alarm cable ¹ , Power + Alarm cable ² , Junction box

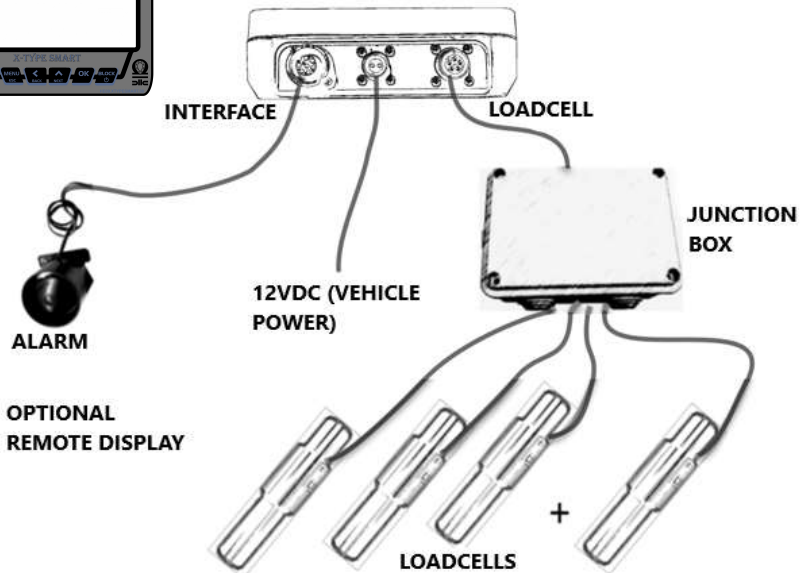
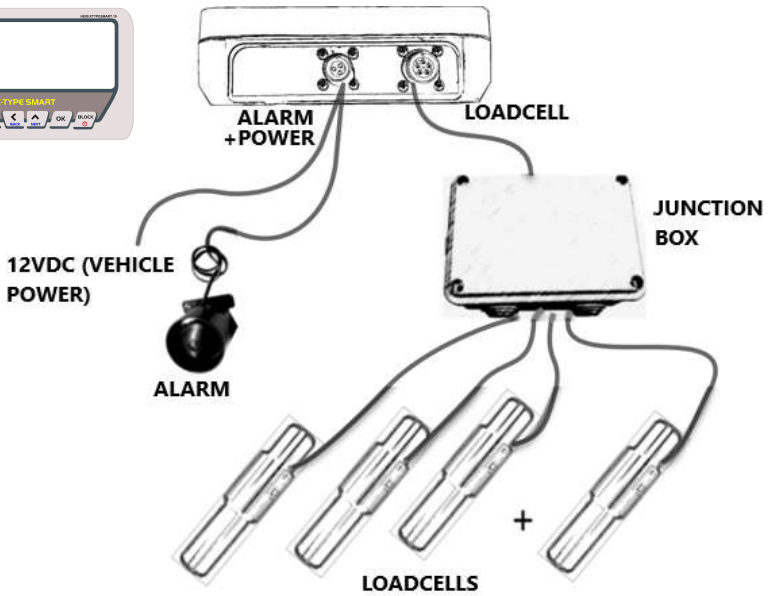
¹ It is for device which has similar view of the image.



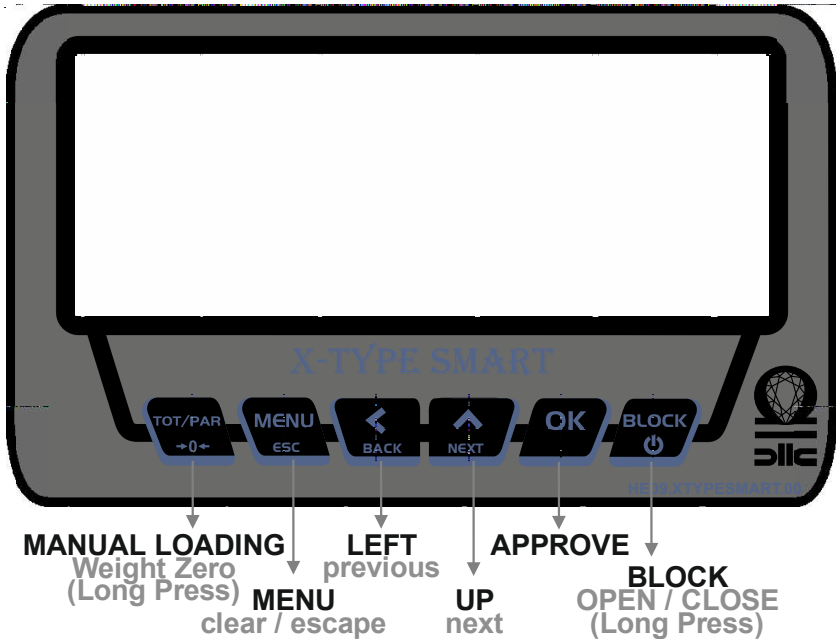
² It is for device which has similar view of the image.



4- INSTALLATION




5- BUTTONS AND BASIC FUNCTIONS

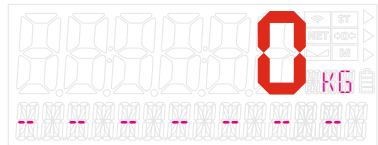



Initial Operating

If the cable connections are done and the power is supplied to X-TYPE SMART, it is operating.

Press  to turn on the device. Weighing mode will be active in 5 seconds.

(If there is a different view according to the right screen, see TROUBLESHOOTING or call the technical service.)




Long press  to turn off the device. (Press more than 5 seconds)

6- PROGRAMMING

Recipe Programming


To save the contents of the recipes you should use **PROG. RECIPES** menu.

Press  when the device is open and on weighing mode.

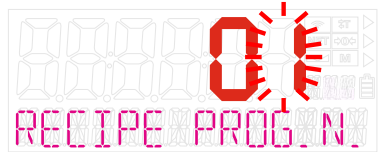
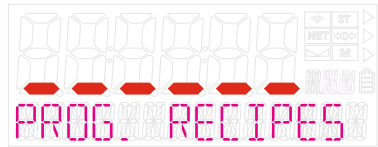
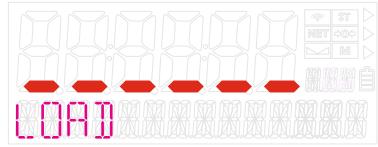
LOAD appears.

Select **PROG. RECIPES** by using  key.

Press  to start RECIPE PROGRAMMING.

Choose recipe number that you want to program by using  key.

Press  to confirm



RECIPE SELECTION SCREEN:

"NAME" : Recipe Name.

"ANIMAL.NUM" : Total number of animal for the recipe.

"C1" : The name of the first loading component

"0.000kg" : The amount of first loading component **per animal**.
Enter here the amount (kg) of the loading component **per animal**.





SETTING THE RECIPE NAME:

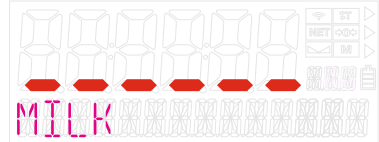
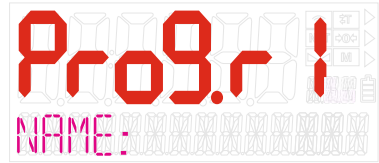
By using ,  keys,

See **NAME:.....** at the bottom line of the screen.

Press 

Select the recipe name by using ,  keys.

Press  to confirm.

**SETTING THE NUMBER OF ANIMAL:**


By using ,  keys,

See **ANIMAL_NUM:** at the bottom line of the screen.

Press 

Set the number of the animals by using

,  keys.



Press  to save your selection.

**SETTING THE COMPONENT NAME:**

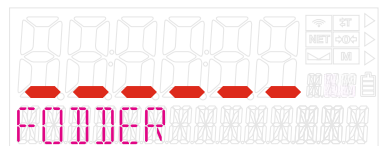
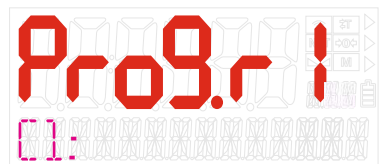
By using ,  keys,

See **[]:.....** at the bottom line of the screen.

Press 

Select the component name by using ,  keys.

Press  to confirm.





SETTING THE LOADING WEIGHT:

By using ,  keys,

See **C1:KG** at the bottom line of the screen.


Press 

Enter the amount **per animal** of the first loading material by using ,  keys.


Press  to confirm.


Repeat the same steps for each component name and weight.

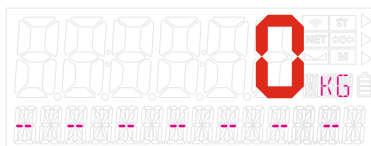
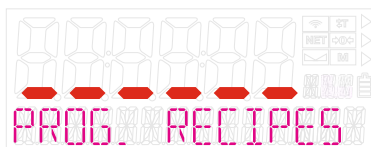
(The total number of component being entered is 15 items.)

Press  after component entering is completed.

The device will calculate and show on the screen the total feed amount per animal (animal ratio) and the total feed amount being loaded.

Press  to exit from the recipe programming.


Press  to exit from the menu and turn back to the weighing mode.



Discharge Programming


To save information about how to discharge the prepared recipes, firstly you should use "PROGRAM DISCHARGE" menu.


Each discharge program is associated with the same number recipe program. As an example, "DISCHARGE 2" is associated with "RECIPE 2".

Press  when the device is open and on weighing mode.

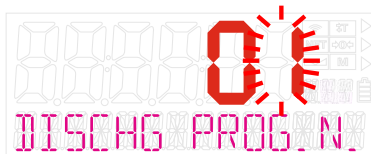
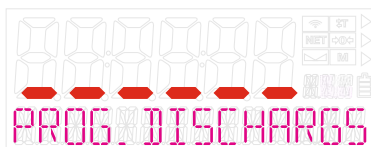
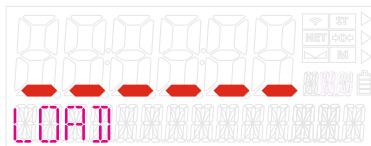
LOAD appears.

Select PROG. DISCHARGES by using  key.

Press  to start DISCHARGE PROGRAMMING.

Choose discharge number that you want to program by using  key.

Press  to confirm



DISCHARGE SCREEN:

"**NAME**" : Discharge name.

"**UNLOAD 1**" : The number of animals for the first discharge (first unloading)

"**UNLOAD 2**" : The number of animals for the second discharge.

NOTE: There are 15 "UNLOAD" defined for each discharge program. Set the number of animals as "0" for unused "UNLOAD"s.





SETTING THE DISCHARGE NAME:

By using ,  keys,

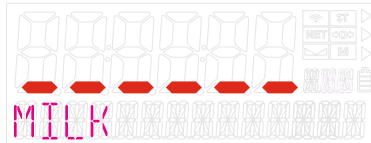
See **NAME:.....** at the bottom line of the screen.

Press 



Select the recipe name by using ,  keys.

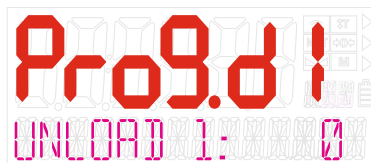
Press 

**SETTING NUMBER OF ANIMALS FOR UNLOADS :**

By using ,  keys,

See **UNLOAD 1:** at the bottom line of the screen.

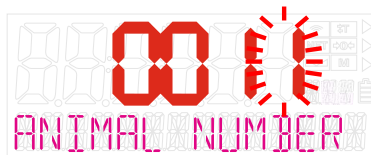
Press 




Enter the number of animals for the first discharge (UNLOAD 1) by using

,  keys.

Press 




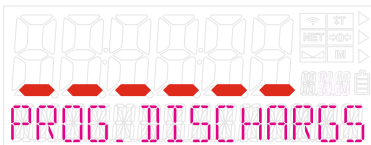
In the same way, enter the number of animals for each UNLOADs.


Press  after entering the animal counts is completed.

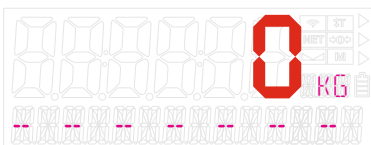
The device will calculate and show on the screen the total number of the animals.



Press  to exit from the discharge programming.




Press  to exit from the menu and turn back to the weighing mode.





7- EXECUTION

The Loading Recipes

This process is used for previously programmed recipes by "Recipe Programming"

Press  when the device is open and on weighing mode. **LOAD** appears.

Press  to start.

Select the recipe by using  ,  keys.
(Example: Recipe 3)

Press  to confirm.

The number of animals previously entered in the recipe programming appears on the display

This number can also be changed at this step.

Press  to confirm

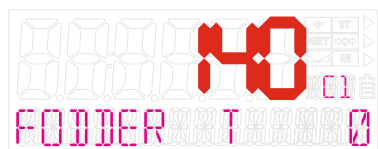
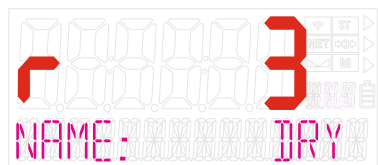
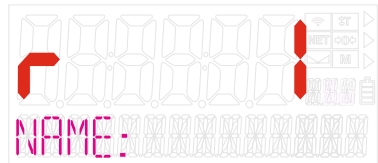
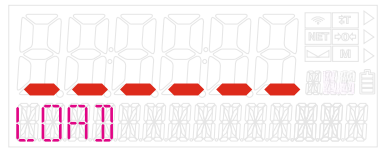
Top : The amount of first loading component
Right : Component number (Example: C1)
Bottom: The name of the first component and the total weight in the machine (T)

The total weight in the machine is zero for the first material. After each component loading, this value will be increased by accumulating.

Load the first material.

When it reaches to 85%, the alarm rings intermitted. When it reaches exactly to the amount of the first component, the alarm rings continuously and it passes automatically to the second material


The process goes on as in the same way for each programmed component.




The Discharges



The discharge process is used for distributing the prepared feed to multiple barns. Each discharge program is associated with the same number recipe program. As an example, "DISCHARGE 1" is associated with "RECIPE 1".

To execute a discharge:

Press  when the device is open and on weighing mode. **LOAD** appears.

Select **UNLOAD** by using  key.

Press  to start.

Select the discharge by using ,  keys.
(Example: Discharge 3)

Press  to confirm.

Top : The amount of the first unload

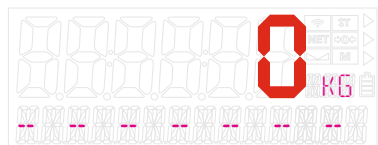
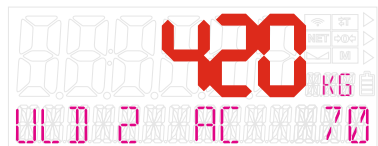
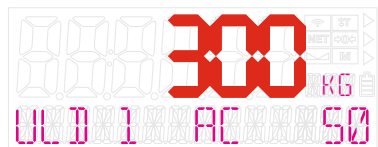
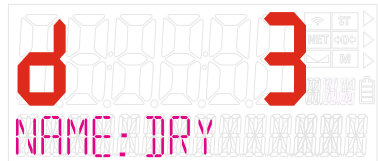
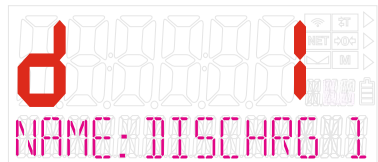
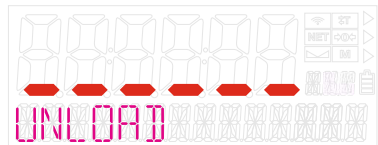
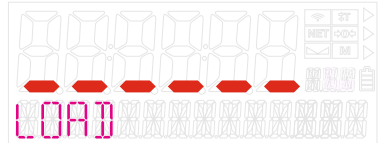
Bottom : Unload number (ULD 1) and the number of animal for first unload (AC)

Start to unload the feed.

When it reaches to 85%, the alarm rings intermitted. When it reaches exactly to the amount of the first unload, the alarm rings continuously and it passes automatically to the second unload

The process goes on as in the same way for each unloading.

When the discharge is completed, the display turns back to the weighing mode automatically.



Manual Loading

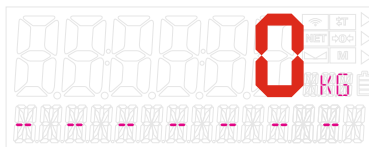
This method can be used if the user want to realize the loading manually, without using a recipe.

In order to start the process, the display should be on weighing mode.

When it is on weighing mode, load the first component.

(Example: 640 Kg)

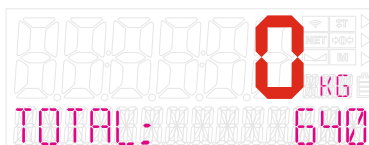
Press 




Load the second component.


(Example: 510 Kg)

Press 

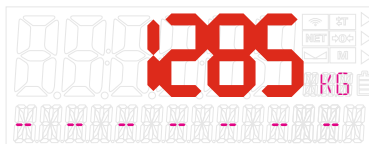
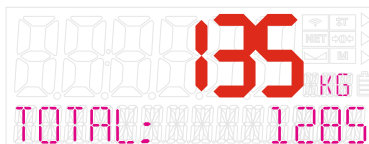
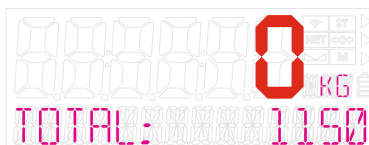


Load each component by using 

(Example: Third component = 135 Kg)

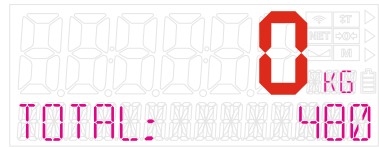
Press  when the component loading is completed. Manual loading is completed.

The display turns back to the weighing mode.




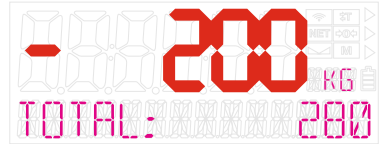
Manual Discharging

When the prepared food is in the mixer, to start the discharge press 




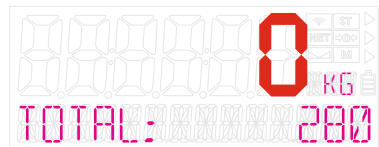
Start to unload the feed for the first unload.

When it finished, press 




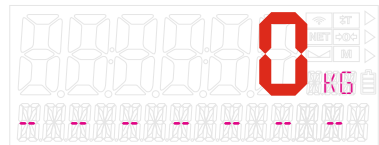
Start to unload the second unload.


When it finished, press 



Continue to unload for each unload.


When the discharge is completed, press  to exit. The display turn back to the normal weighing.

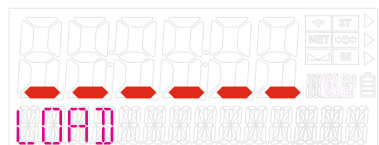


Reset the display to "0" by holding  key during 5 seconds.

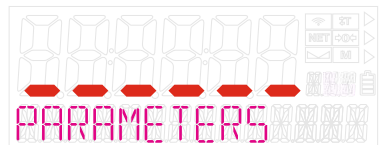
8- PARAMETERS


To change the parameters:

Press  when the device is open and on weighing mode. **LOAD** appears.





Select **PARAMETERS** by using  key.



Press  to enter the parameters menu.





In the parameters menu:


 ,  : navigate between parameters.


 : Select the parameter and enter the edit mode

When a parameter is selected, its value start to flash. During this time:


 : Change the value of the parameter

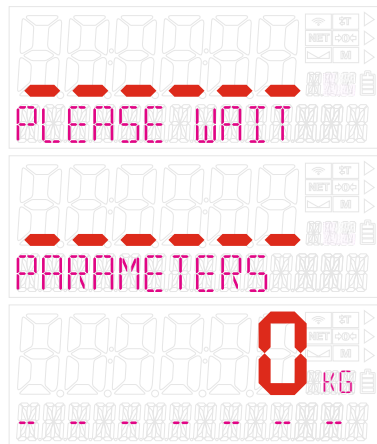
 : Exit from the edit mode with accepting the new value

 : Exit from the edit mode without accepting the new value.

Press  to exit from the parameters menu.

NOTE: All the changed parameters are stored in memory at this stage.

Press  .
The display turns back to the weighing mode.



















PARAMETERS
















LANGUAGE	Language of the device
DIVISION	Division of the device
SPEED	Weighing speed of the device
ALARM TIME	Transition time between the steps during execution of loading or discharges. (Unit: Second)
ALARM START RATE	Alarm initiation ratio during execution of loading or discharges.

9- CALIBRATION



Calibration by using a Reference Weight

- Turn off the device. Press and hold  key. Turn on the device by pressing  without releasing the  key.
- **CALIBRATION** appears. Press  key, **CAL. W/WEIGHT** appears. Press  key.
- **PASS** appears. Press     sequentially.
- **LOADCELL MAX CAP** appears. Enter the total maximum capacity of the load cells. Press  key.
- **MAX. CAPACITY** appears. Enter the total maximum capacity of the load cells again. Press  key.
- **REF. WEIGHT** appears. Enter the reference weight value that you will load on the machine. Press  key.
- **DIVISION** appears. Choose the division. Press  key.
- **PLEASE WAIT** and **UNLOAD** appears. (In this situation empty completely the machine) Press  key.
- **LOAD** appears. Load the reference weights on the machine. Distribute the weight balanced. Press  key.
- **UNLOAD** appears. Unload the reference weights. Press  key.
- The device will turn off and on automatically. Calibration is finished

Example: (12 ton capacity, division:5 kg, Reference weight: 300 kg)

-  + 
- CALIBRATION => 
- CAL. W/WEIGHT => 
- PASS =>    
- LOADCELL MAX CAP => 12000 
- MAX. CAPACITY => 12000 
- REF. WEIGHT => 300 
- DIVISION => 5 
- UNLOAD (The machine is empty) 
- LOAD (300 kg on the machine) 
- UNLOAD (The machine is empty) 

Weight Correction

- When the device is open and on weighing mode and when there is a load on the machine with a known weight value:
- Press  more than 12 seconds.
- **WEIGHT CORRECT.** appears. Enter the exact value of the weight.
- Press .

10- WARRANTY

Contact your local distributor of X-TYPE SMART to learn the conditions of warranty in your country.

11- TROUBLESHOOTING

The device does not turn on.	Check the power and power cable.

ERROR CODES

Err 1	<p>ADC error (Analog / digital conversion error)</p> <ul style="list-style-type: none"> • Check the load cell cable and connector. • Turn off and on. • If the fault persists, contact your local technical service.
Err 2	<p>Calibration error. This message appears when there is something wrong during the calibration process.</p> <ul style="list-style-type: none"> • Check carefully all calibration steps. Make sure all values entered and all weights used are corrects. • Check load cell cable and connector. Make sure the cables are connected in the correct order. • Make sure there is no a mechanical problem that prevents the operation of the load cells. • If the fault persists, contact your local technical service.
FULL	<p>Weight capacity exceeded warning</p> <ul style="list-style-type: none"> • Make sure there is no a huge weight on the machine. • Check load cell cable and connector. Make sure the cables are connected in the correct order. • If the fault persists, contact your local technical service.