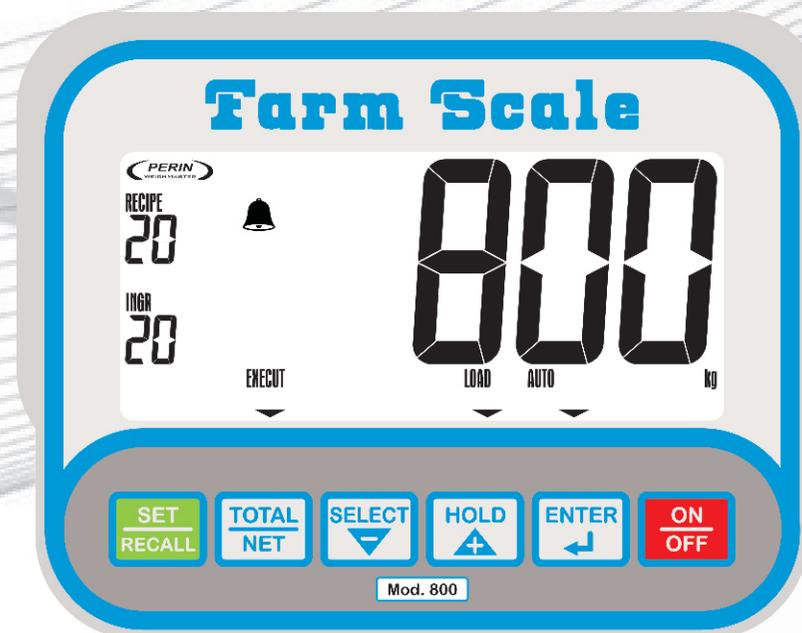


# WEIGHT INDICATOR Model 800



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## USER'S HANDBOOK

english

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## CE Declaration of conformity



The producer

**PERIN WEIGHMASTER SRL**

Viale A. Moro 7  
26845 Codogno (LO)

declares that the below-mentioned equipment is in accordance with the essential requirements of the applicable regulations:

- 1 Electromagnetic Compatibility Directive EMC 2004/108/CE (ex 89/336/CEE) and Legislative Decree N. 194/2007.

Denomination	Weighing System
Model	800

Applied harmonized law:  
- CEI EN 61326

Codogno, 02 February 2015

The technical head

A handwritten signature in black ink that reads 'Fabio Perin'.

Fabio Perin

## SAFETY REGULATIONS FOR SYSTEM INSTALLATION AND MAINTENANCE

- Install only when power supply is disconnected.
- Do not install the device near heat sources or near strong magnetic fields.
- Disconnect the power supply cable from the weight indicator when you need to recharge the battery of the means of transport.
- Immediately disconnect the power supply cable if the cables or the connectors are stripped or damaged, if the system has particular problems or if there is liquid/humidity in the device.
- The tension should stay between 12V and 14V to avoid damaging the other parts of the system. The device works correctly with tensions between 10V and 24V.
- Before cleaning the machine with high pressure waterjets, disconnect the cables, remove the weight indicator from the machine and protect the connectors of the cables from water seepage. Pay attention that the load cells, the junction box, the alarm and other accessories are not exposed to direct waterjets.  
If the device needs to be cleaned, use soft and lightly humid cloths.  
Do not use sprays, solvents, abrasives, sharp or cutting objects which could damage the case.
- Do not open the device, to avoid losing the warranty right. For maintenance/repairation, address to our company or to technical authorized staff.
- Before doing any welding on the machine, disconnect the cables.  
To prevent welding current from passing through load cells, it is necessary to shortcircuit the body of the load cells with a cable with adequate section and the earth of the welder must be connected near the point where you weld.

## MAINTENANCE

FarmScale mod. 800 does not require any regular maintenance, however it is necessary to check the conditions of the weighing system periodically.

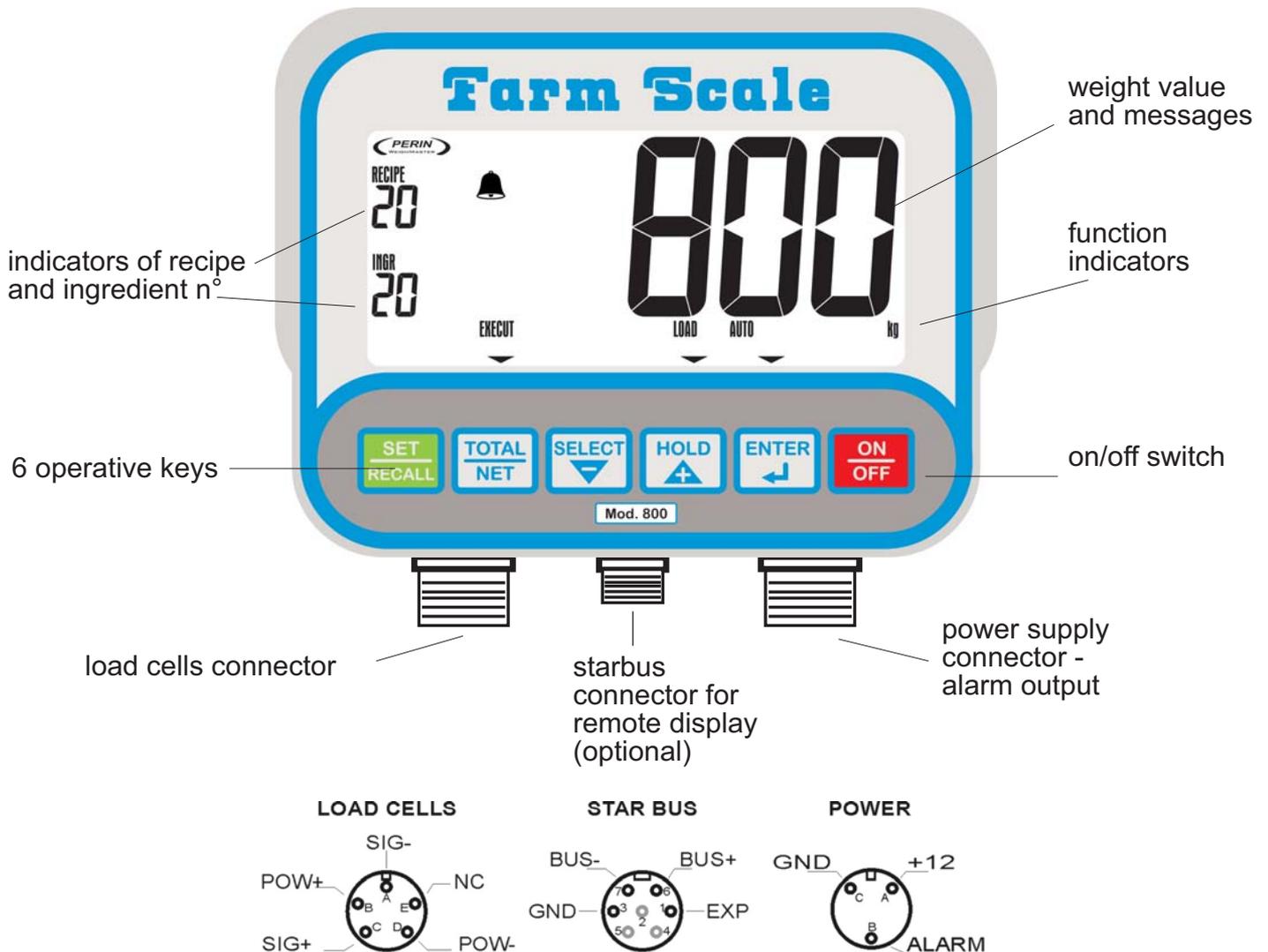
- 1) Make sure that there are no disturbing elements between the supporting chassis and the platform or the container, the basin, the feeder, etc.
- 2) Make sure that the load cells are not damaged (no cracks nor dents), not rusty, not corroded by acids.
- 3) Make sure that there is enough space between the chassis and the components of the weighing system; lubricate if necessary.
- 4) Make a test: load a weight on each corner, the displayed amount must be nearly the same.
- 5) Make sure that the connectors are tight and that the cables are undamaged (no cuts nor abrasions). Remember that, where food is stored or handled, small rodents often gnaw cables which are situated in hidden or scarcely reachable places.
- 6) Check that there is no oxidation nor humidity on the connecting points.
- 7) Do not install the device near heat sources (radiators/oil tanks). Do not fix it on surfaces with strong vibrations.

## DISPOSAL OF THE DEVICE



This symbol, present on the product or on the handbook, indicates that the product cannot be thrown together with household garbage (European Directive 2012/19/EU). The final user has to dispose of the device at a gathering place for recycling and disposal of electrical and electronic devices. The separate refuse collection and the correct recycling of the devices allow to protect the health of people and ecosystem. For further information concerning gathering points for devices, contact the local authority for the disposal of garbage or the distributor where the product has been purchased.

## DESCRIPTION OF THE DEVICE



## CONNECTIONS

The device has got three connectors. From left to right: a 5 pin connector for the connection of the extension cable (LOAD CELLS), an optional 7 pin connector for the connection of remote displays (STARBUS), a 3 pin connector for the connection of the power supply and alarm cable (POWER).

Before making connections, make sure that the device and the possible peripherals are off. Before introducing any connector, make sure it is the right one and then connect it adequately, otherwise damages to the device could occur.

After having introduced the connector, screw the fixing ring.

To disconnect the cables from the plugs, rotate the upper ring anticlockwise, keeping the lower ring steady. Pull out the connector. Do not pull the cable directly.

## BATTERY TEST

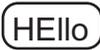
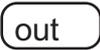
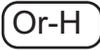
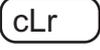
The battery test should be made periodically (entering voltage level to FarmScale mod. 800).

To carry out this test, when you are in total weight mode, keep the key  pressed; "volts" with the voltage value of power supply will be displayed and the alarm will sound intermittently. Press  once again to have the direct weight reading.

## FUNCTION OF THE KEYS

	DIRECT READING	PROGRAMMING	EXECUTING RECIPES
	Pressing this key lightly, the device switches on; keeping it pressed, it switches off		
	Passes from total to net and viceversa (stores the value, recalls the total weight). Kept pressed, it zeroes the scale (tare)	Zeroes the wrong values; kept pressed, it goes back to direct reading	Restores the value of a programmed ingredient; kept pressed, it goes back to direct reading
	Selects the functions of rations recall, programming and storage	Stores the digit and passes to the next one	Selects manual or automatic passage to the following ingredient
	Freezes the weight value	Increases the value of the digit	Holds the weight value
	Kept pressed, it carries out the battery test with intermittent alarm	Stores the value of an ingredient and displays the following ingredient	Scrolls the ingredients of the recipe
	Allows to set the alarm individual value for loading/unloading. Presents the earlier programmed alarm values	Recalls previous ingredient/recipe	Recalls previous ingredient/recipe

## MESSAGES AND ICONS ON DISPLAY

	The device is switching on (it shows the version of the software)		Damaged alarm output
	Too low battery level		Frozen value
	Out of range low		Battery voltage
	Out of range high		Storage cancellation
	Signals alarm output		Unit of measure

## USE AS SIMPLE WEIGHT INDICATOR

Switch the indicator on with the key  and wait for a few seconds. After the HELLO message, the indicator shows the model and the version and prepares itself for direct reading. (In case of interruption of the ration execution, the device could switch off; the indicator would then switch on again showing the loadings to be completed). Load and you will immediately read the value corresponding to the loaded weight.

NB: in the beginning it might be necessary to adjust the zero, because the mechanical parts of the system need some time to settle.

## ZEROING (TARE)

Switch the indicator on, after a few seconds a value will be displayed. Keep the  key pressed until the display shows the message tArE. The indicator goes automatically to zero.

## PARTIAL WEIGHINGS

To make loading of different ingredients easier, without using the alarm, press . The display will visualize "0" with an indicator which will set on NET. Load the ingredient, press  again and the indicator will move to TOTAL so that the total loaded weight will be shown. Follow this procedure for all the partial weighings (loading and unloading).

## USE WITH QUICK ALARM (SET/RECALL)

FarmScale mod. 800 gives the possibility to set loading/unloading values with alarm (you do not need to programme recipes). To set a value, press the key  and use the keys  to increase the digits and  to select the digits. In the end press  to confirm the value. Proceed with loading or unloading.

Load; the value on the display will decrease in proportion to the loaded amount.



When 85% of the load has been reached, you will hear an intermittent signal: load with care. When 100% has been reached, you will hear a continuous signal: stop loading immediately.

In this mode the weight indicator stores the individual weighings which can be recalled by pressing repeatedly the key .

While setting the value to program, keeping the key  or  pressed, you can pass to the setting mode with direct increase/decrease of the displayed value.

## SELECTION OF FUNCTIONS

To pass from a function to another one you only need to press the key . The fixed indicator will move every time to indicate the selected function: TOTAL / EXECUT / PROGRAM / ACCUM.

## PROGRAMMING RATIONS

FarmScale Mod. 800 has a memory able to store programmes of 20 recipes of 20 ingredients each, which can be used for loading and unloading.

When executing the ration, the indicator automatically recognizes if a loading or unloading is being carried out (LOAD/UNLO announcers); there will be an alarm both for loading and for unloading. It is therefore possible to use the programming of recipes to manage different unloading groups, too.

There are two different ways of setting the programming:

- in total values (the ingredients are expressed in total kilos)
- proportional to the number of animals (the ingredients are expressed per animal)

The user should prepare a list of all the ingredients with their values in order to program the recipe in a correct way.

## PROGRAMMING LOADING IN TOTAL VALUES

The ingredients are introduced in total Kg. After the ration has been entered, before executing it, it is still possible to change the total value with automatic adaptation of components. e.g. - program the recipe n. 1 composed of the following ingredients: n. 1 of 110 kg, n. 2 of 225 kg and n. 3 of 1120 kg. Proceed in this way: switch on the indicator and wait for a few seconds.

### PRESS

### DISPLAY



press it twice; the indicator sets on PROGRAM with the recipe n. 1 and the total of the recipe



it confirms that you want to program recipe n. 1. COWS and the number of animals are displayed. The first digit on the right blinks

1 0000



it confirms the number of animals is zero (the programming is in total values) and displays INGR with ingredient n. 1

recipe 1 0000  
ingredient 1



it stores the first digit (units) and moves to the second one

1 0000  
1



it increases the second digit (tens)

1 0010  
1



it stores the second digit

1 0010  
1



it increases the third digit (hundreds)

1 0110  
1



it stores the value of ingredient n. 1 and displays the value of ingredient n. 2

1 0000  
2



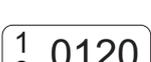
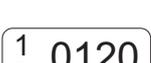
it increases the value of the first digit (units)

1 0005  
2



it stores the first digit

1 0005  
2

	it increases the value of the second digit (tens)	
	it stores the second digit	
	it increases the value of the third digit (hundreds)	
	it stores the value of ingredient n. 2 and displays the value of ingredient n. 3	
	it stores the first digit (units)	
	it increases the value of the second digit (tens)	
	it stores the second digit	
	it increases the value of the third digit (hundreds)	
	it stores the third digit	
	it stores the value of the ingredient n. 3	
	Press it several times. It allows to scroll the other values, up to the 20th ingredient, and displays the total of the recipe	

To leave the PROGRAM function, press  .

While setting the value to be programmed, keeping the key  or  pressed, you can pass to the setting mode with direct increase/decrease of the displayed value.

## LOADING      Ration n° 1 (total values)

Load ration n. 1 whose total is 1455 Kg

PRESS

DISPLAY

	it displays the loading function (EXECUT) and the total of the first recipe	
	it confirms the loading function. The digit on the right blinks to indicate that it is possible to change the total of the ration with automatic adaptation of the ingredients	



it confirms the execution of the ration n. 1 and displays the ingredient n. 1 ready for loading.  
The announcers LOAD and AUTO are activated

1 110  
1

Load; the value on the display will decrease in proportion to the loaded amount.



When 85% of the load has been reached, you will hear an intermittent signal: load with care. When 100% has been reached, you will hear a continuous signal: stop loading immediately.

After 5 seconds, the alarm stops and the value of the ingredient n. 2 (ready to be loaded) will appear on the display. Proceed ...

After loading all the ingredients, the total weight will be displayed.

## PROGRAMMING PER NUMBER OF ANIMALS

e.g. - program recipe n. 2 for 123 animals with ingredient n. 1 of 1,10 kg, n. 2 of 2,25 kg, n. 3 of 9,20 kg.

The full stop (.) indicates that the values are expressed per animal.

Proceed as follow: switch the indicator on

### PRESS

### DISPLAY



press it twice for the program function; PROGRAM will be displayed. The total of the recipe n. 1 will be displayed

1 0



it increases the number of the recipe

2 0



it confirms the recipe n. 2; it asks for the number of animals COWS (the right digit blinks)

2 0000



it increases the first digit (units)

2 0003



it stores the first digit and displays the second one

2 0003



it increases the second digit (tens)

2 0023



it stores the second digit

2 0023



it increases the third digit (hundreds)

2 0123



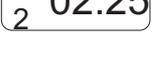
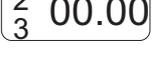
it stores the number of animals and displays the value of the ingredient n. 1

2 00.00  
1



it stores the first digit (dag)

2 00.00  
1

	it increases the value of the second digit (hg)	
	it stores the second digit	
	it increases the third digit (kg)	
	it stores the value of the ingredient n. 1 and displays the value of the ingredient n. 2	
	it increases the first digit (dag)	
	it stores the first digit	
	it increases the second digit (hg)	
	it stores the second digit	
	it increases the third digit (kg)	
	it stores the value of the ingredient n. 2 and displays the value of the ingredient n. 3	
	it stores the first digit (dag)	
	it increases the second digit (hg)	
	it stores the second digit	
	it increases the third digit (kg)	
	it stores the value of the ingredient n. 3 and displays the value of the ingredient n. 4	
	press several times to scroll the other values, up to the 20th ingredient. The total of the recipe will be displayed	

To leave the PROGRAM function, press  .

While setting the value to be programmed, keeping the key  or  pressed, you can pass to the setting mode with direct increase/decrease of the displayed value.

**LOADING      Ration n. 2 (number of animals)**

Load the ration n. 2 for 123 animals

PRESS

DISPLAY



it displays the loading function and the indicator moves to EXECUTION, it displays the ration n.1 and its total

1 0  
t



it searches for the ration n. 2; the number of animals with the number of recipe will be displayed

2 123



the number of animals will be displayed. The right digit is blinking to indicate that the number can be changed, if necessary, with adaptation of the values of the ingredients

2 0123



it confirms the number of animals; the value of the first ingredient, ready to be loaded, is displayed. The announcers LOAD and AUTO are activated

2 135  
1

Load; the value on the display will decrease in proportion to the loaded amount.



When 85% of the load has been reached, you will hear an intermittent signal: load with care. When 100% has been reached, you will hear a continuous signal: stop loading immediately.

After 5 seconds, the alarm stops and the value of the ingredient n. 2 (ready to be loaded) will appear on the display. Proceed ...

After loading all the ingredients, the total weight will be displayed.

**PROGRAMMING UNLOADING GROUPS**

You want to distribute the mixture of 2300 Kg to 2 unloading groups as follows: first group 1500 Kg - second group 800 Kg. Even if the unloading ration has already been entered, it is still possible to change the total. For example if the quantity changes from 2300 to 2530 Kg (increase of 10%), the values are recalculated in percentage. You will therefore pass from 1500 to 1650 Kg, from 800 to 880 Kg. The indicator stores and reposes the previously programmed value (2300 Kg) and not the value which has been actually loaded/unloaded (2530 Kg).

PRESS

DISPLAY



press it twice; the indicator sets over PROGRAM. and the number of recipe 1 with the letter "t" (to indicate the total) will appear

1 0



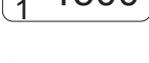
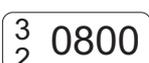
press it twice; the third recipe with the letter "t" (to indicate the total) will appear

3 0



it allows to enter recipe 3, it displays the number of animals

3 0000

	it confirms the number of animals is zero and displays the first group (the programming is in total values)	
	it stores the first digit (units) and moves to the second (tens). Press it once more to store the second digit	
	it increases the third digit (hundreds)	
	it stores the third digit	
	it increases the fourth digit (thousands)	
	it stores the value of group n. 1 and displays the value of group n. 2	
	it stores the first digit (units); press it once more to store the second digit (tens)	
	it increases the value of the third digit (hundreds)	
	it stores the value of group n. 2 and displays the value of group n. 3	
	Press several times to scroll the other values, up to number 20. The total of the recipe will be displayed	

To leave the PROGRAM function, press  .

While setting the value to be programmed, keeping the key  or  pressed, you can pass to the setting mode with direct increase/decrease of the displayed value.

## UNLOADING      Ration n. 3 (groups)

Unload ration n. 3 of 2300 Kg to 2 groups

### PRESS

### DISPLAY

	it displays the unloading function (indicator over EXECUT). Press it twice to display the third recipe	
	it confirms the unloading function and displays the total of ration n. 3. The right digit blinks to indicate it is still possible to change the total of the ration with adaptation of each ingredient	
	it confirms the execution of ration n. 3 and displays the first unloading group.	

Unload; the value on the display will decrease in proportion to the unloaded amount (this value refers to group n. 1).



When 85% of the unloading has been reached, you will hear an intermittent signal: the unloading is ending. When 100% has been reached, you will hear a continuous signal. After a few seconds the residual weight value will be displayed

After 5 seconds, the alarm stops and the value of the second group (ready to be unloaded) will appear on the display. Proceed until all the groups have been unloaded.

## EXTRA FUNCTIONS IN RATION EXECUTION

### HOLD FUNCTION (WEIGHT FREEZE)

When you are loading or unloading the ingredients of a recipe and the feeder is moving or standing on uneven ground, it is sometimes useful to freeze the weight value. In order to do that, press the key  once. The indicator sounds every 5 seconds to remember the blockage. Press the same key to disconnect the blockage.



Make sure that at the time of blocking and unblocking the machine and the augers have been firm for some seconds (the weight value must be steady) and that there are no points of support on the under weighing part, otherwise there could be variations in the total weight.

### PROGRAMMED WEIGHT RESTORE FUNCTION

While you are loading or unloading and the feeder is moving or standing on uneven ground, sometimes the displayed value does not correspond to the programmed value. To restore it, press  and the correct programmed value will be displayed.

### SELECTION OF THE INGREDIENT

Using the keys  and , it is possible to select the following or previous ingredient.

### SELECTING AUTOMATIC/MANUAL PASSAGE

During the execution of loading/unloading of a recipe, the passage to the following ingredient is automatic (after 5 seconds of alarm). To have manual passage, press  (announcer AUTO or MANUAL). When the programmed quantity is reached, the alarm goes on sounding and you have to press  to proceed with the following ingredient.

### INGREDIENTS REPROPORTION

If, during the loading of the first ingredient, the key  is kept pressed for 3 seconds, the digit of the first ingredient flashes. At the end of the first ingredient the quantity actually loaded is checked and, if it is bigger or smaller than the theoretical quantity, all the other ingredients are reproporioned in percent.

## STORAGE FUNCTION

The indicator has a memory which is able to contain and sum the loadings carried out for each ingredient of each recipe. The loaded value, distinct for each ingredient, is stored in a memory area. At any time you can check the value of every area and you can decide to zero the total memory. The capacity of every area is 65000 Kg; if you overpass this limit, the storage counter begins from zero once more.

To consult the stored loading values with the indicator in direct weight reading, press three times  , press  to choose the ration and  to visualize the ingredient. To cancel all the stored values, when you are in the recipe (title), keep  pressed until CLR appears and confirm the operation with .

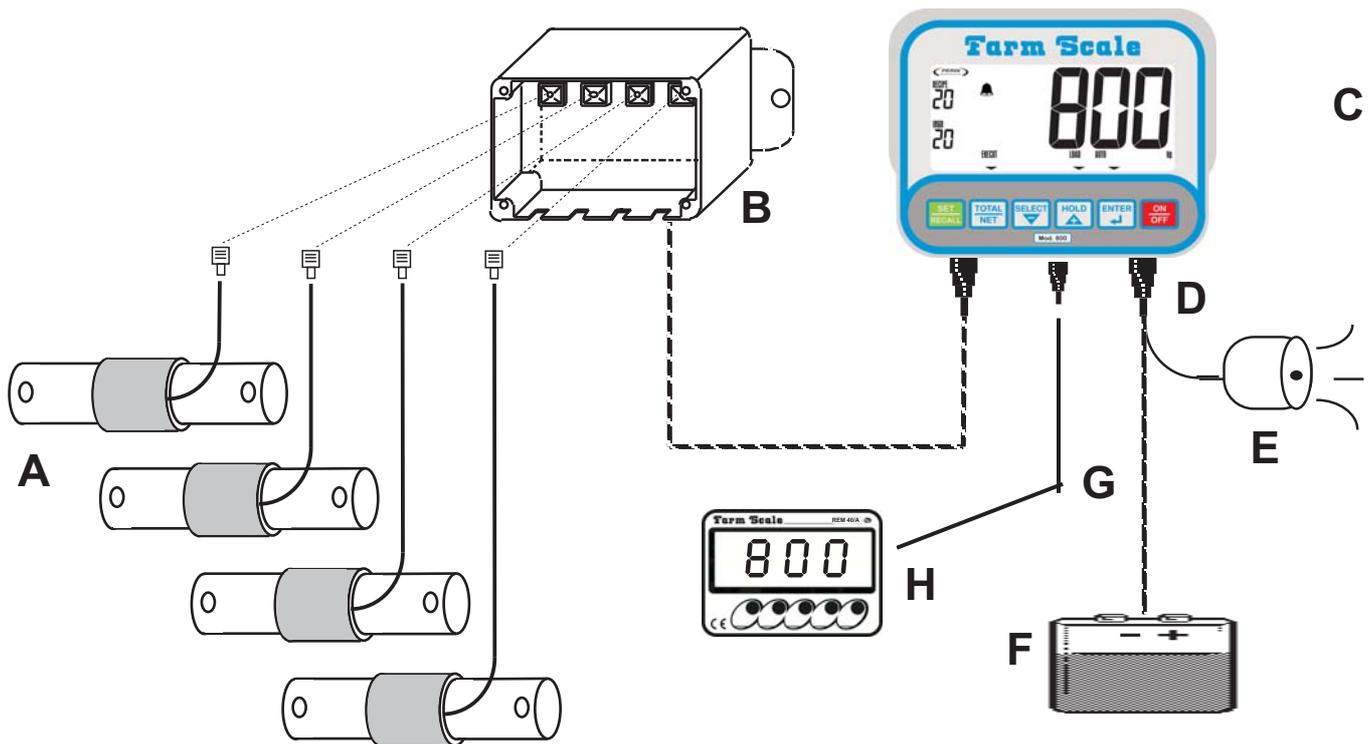
## TROUBLES AND SOLUTIONS

Here is a list of some troubles and their possible solutions. If your problem is not included in this list, contact your retailer or the producer PERIN WEIGHMASTER.

Attention: switch the indicator on at least 10-15 minutes before the tests.

TROUBLES	SOLUTIONS
The system does not switch on	check connections, polarity, external fuses, battery, cables
The system switches on, but after a short time it switches off	recharge the battery or replace it; check connections, external fuses, battery, cables
Unstable value on the display	check the condition of load cells, cables and connectors
The displayed value flows towards a direction (20÷30 times in an hour)	the indicator is on. Disconnect the load cells one by one. If the problem is not caused by load cells, check the connections between the junction box, the connecting cable and the indicator
The displayed value is not correct; there is a small error in percentage	the system may have lost the correct calibration (it may have received shocks or strong vibrations). The calibration value must be reset
The displayed value is wrong (error of more than 10%)	check the zeroing while the container is empty. Make sure that there are no disturbing elements between chassis and counterchassis. Put a test weight on every corner, possibly near the load cell to locate the damage. Ask for technical assistance
While loading, the alarm does not work	check the binary connector. Use a 12 volt battery to supply the alarm device separately. Substitute it with a new alarm if necessary
The indicator displays the message "Or-L" or "Or-H"	out of range (high or low): check the connectors and the load cells cables; disconnect the load cells one by one. Substitute the damaged load cell. Restore the connections
The indicator displays the battery symbol	recharge the battery and restore the connections

## SYSTEM REPRESENTATION



- |    |                                  |    |  |
|----|----------------------------------|----|--|
| A) | Load cells                       | E) | Acoustic device indicating the loading/unloading (alarm) |
| B) | Junction box and extension cable | F) | Power supply source (battery 12 V)                       |
| C) | Weight indicator                 | G) | StarBus cable (optional)                                 |
| D) | Power supply cable               | H) | Remote display (optional)                                |

## TECHNICAL DETAILS

- MICROPROCESSOR CIRCUIT ON A SINGLE BOARD
- POWER SUPPLY VOLTAGE 12/24 V 0,3 A
- WORKING TEMPERATURE -10°/ +40°C
- MILITARY TYPE CONNECTORS FOR POWER SUPPLY AND LOAD CELLS
- DISPLAY BACKLIT LCD
- DIGITS FOR THE WEIGHT VALUE 5 DIGITS h 57mm
- AND FOR THE RECIPE AND INGREDIENT NUMBER 4 DIGITS h 15mm
- INDICATORS FOR: TOTAL/NET, EXECUTION, PROGRAMMING, STORAGE, LOADING/UNLOADING
- PROGRAMMABLE DIVISIONS 1 - 2 - 5 - 10 - 20
- MAXIMUM RESOLUTION 24 BITS
- MEMORY FOR 20 RECIPES
- EACH ONE WITH 20 INGREDIENTS
- PROGRAMMING WITH NUMBER OF ANIMALS OR IN TOTAL VALUES
- AUTOMATIC PROPORTIONAL CALCULATION OF EACH INGREDIENT ACCORDING TO THE PLANNED NUMBER OF ANIMALS
- INGREDIENTS CAN BE USED BOTH FOR LOADING AND FOR UNLOADING
- NOTICE AT 85%, ALARM FOR 5 sec. WHEN LOADING/UNLOADING IS OVER
- "Err Out" MESSAGE IN CASE OF SHORT CIRCUITS AT THE ALARM OUTPUT
-  IN CASE OF LOW BATTERY LEVEL
- HOLD AND WEIGHT RESTORATION FUNCTIONS
- ZEROING AND CALIBRATION BY KEYS
- HERMETIC ABS BOX

## CONFIGURATION STARTING PARAMETERS

FarmScale Mod. 800 allows to configurate some operating parameters such as: the division of weight increase, the speed of weight visualisation (to be used when the visualisation is too fast or too slow) and the time elapsing between an ingredient and the following one during the ration execution.

To set the parameters, after you have switched the device on, keep pressed at the same time the keys  and  to enter the SETUP. These parameters will be displayed as follows:

- dl = allows to set the wanted division (1-2-5-10-20).

Set with  and  .

Store the value pressing the key  .

- SPd = speed. Press  to change the reading speed: Slou (slow), norm (normal) or FASt (fast). Store the value pressing  .

- tAl = time alarm passage ingredients. It is expressed in seconds. By default it is set at 6.0, but you can get to a maximum of 25.0. Set with  and  . Press  to confirm and exit the configuration.

**WARRANTY CONDITIONS:**

Warranty covers the material and manufacturing defects, and includes both spare parts and manpower for the substitution at our warehouse. Warranty starts from the purchasing date and has a validity of 24 months.

The possible freight charges have to be paid by the customer.

Warranty cannot be applied if the damages are due to improper installation, bad use, ill-treatment, deterioration, lightnings, weather phenomena, over-voltage, over-current, insufficient or irregular power supply. Moreover, warranty is not acknowledged if damages have been caused during the transport from and to the customer, or if they are due to a use that is in contradiction to the technical/safety measures demanded in the country where the device is used.

If, during the warranty period, one or more components are replaced - for reparation - with spare parts which are not supplied or approved by the producer, or in case reparation is carried out by non-authorized people, Perin Weighmaster S.r.l. reserves the right to revoke immediately the warranty with no further information.

Warranty is applicable only if there are the producer's label and anti-tamper label on the device.

Perin Weighmaster S.r.l. is not responsible for any direct or indirect damages caused to people or things, due to the operator's inability or to a breakdown of the device with the consequent stoppage of its use.

If spare parts which are not included in warranty (external covering, batteries, rubber parts) needed replacing, their cost would be debited to the customer together with the corresponding labour cost.

In case of shipment, pack correctly the device, protect it from bumps (to avoid losing the warranty) and write down a brief explanation of the problem.

## ACCESSORIES ON DEMAND

### Remote displays

Our remote displays allow high visibility at a distance also in conditions of poor illumination or direct sunlight.

- Sealed ABS box.
- Slide tool with dovetail for fixing.
- Connection to weight indicator by means of StarBus cable (several lengths).
- Connection to radio kit.



LCD REM/40A numerical  
LCD with digits 40 mm high  
L 175 x H 130 x W 105 mm

LED REM/40B numerical  
LED with digits 40 mm high  
L 175 x H 130 x W 105 mm



LED REM 57 numerical  
LED with digits 57 mm high  
L 315 x H 130 x W 105 mm

LED ALFA alphanumerical  
LED with digits 30 mm high  
L 315 x H 130 x W 105 mm



The radio kit is composed of:

- transmitter connected to weight indicator
- receiver connected to remote display and supplied with 12V
- 1 power supply cable 4,5 mt
- 2 Starbus cables 3 mt