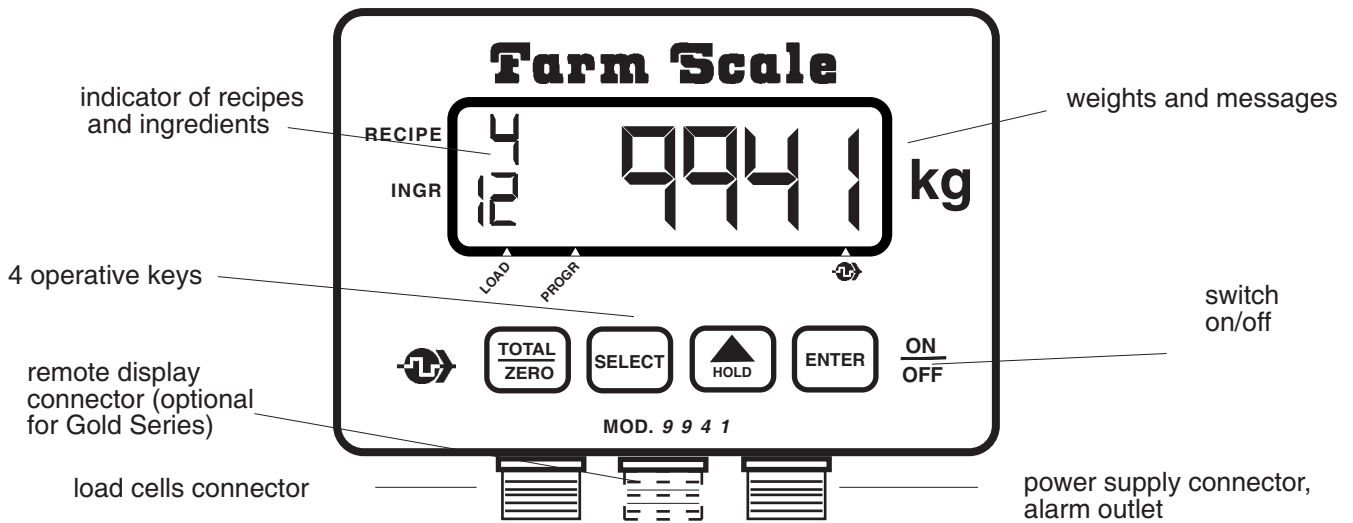






## INDEX

	<i>page</i>
<i>Description of the device .....</i>	<i>4</i>
<i>Use as simple weight indicator.....</i>	<i>4</i>
<i>How to tare the system.....</i>	<i>4</i>
<i>Partial weight .....</i>	<i>4</i>
<i>Programming .....</i>	<i>5</i>
<i>Programming with total weight.....</i>	<i>5</i>
<i>Loading recipe N.1 (total weight).....</i>	<i>6</i>
<i>Programming proportional to number of head .....</i>	<i>7</i>
<i>Loading recipe N. 2 (with number of head).....</i>	<i>8</i>
<i>Additional functions.....</i>	<i>9</i>
<i>Unloading with alarm .....</i>	<i>9</i>
<i>Restore function.....</i>	<i>9</i>
<i>Hold function.....</i>	<i>9</i>
<i>Displayed messages.....</i>	<i>9</i>
<i>Maintenance .....</i>	<i>9</i>
<i>Battery test .....</i>	<i>10</i>
<i>Troubles and solutions.....</i>	<i>10</i>
<i>Components of the system .....</i>	<i>11</i>
<i>Technical details.....</i>	<i>11</i>

**DESCRIPTION OF THE DEVICE**



**DIRECT READING**

-  To select the loading and programming functions.
-  To confirm the loading and programming functions.
-  To memorize the value; to recall the total weight; to zero the scale (tare).
-  To put the weight on hold (page 9).

**PROGRAMMING**

- To memorize the digit and pass to the next one.
- To memorize the introduced value and pass to the next one.
- To cancel the wrong inserted values. To leave this function.
- To increase the value of the digit.



**EXECUTION OF RECIPES**

- 
- To skip the ingredients of the recipe.
- To restore the value of a programmed ingredient (p.9)
- To put the weight on hold (page 9)





**USE AS SIMPLE WEIGHT INDICATOR**

Switch the indicator on and wait a few minutes. The system is ready to weigh. Load and you can immediately read - on the display - the value corresponding to the loaded weight. At the beginning it might be necessary to adjust the zero, because the mechanical parts of the weighssystem need some time to settle.

**How to tare the system**

Keep the key  pressed; the display will show . The system goes automatically to zero.

**Partial weighing**

To make loading of different ingredients easier, you can put the weighing system on partial zero. Press  and the display shows . Load now. If you press again  it will show the total weight .

## PROGRAMMING

Farm Scale mod. 9941 has a memory able to store programs of 4 recipes including 12 ingredients each, which can be used for loading and unloading. For the 9941 Gold Series 15 recipes of 16 ingredients are available.

You can program the ingredients of the recipes in two different ways:

- total weight (the ingredients are expressed in total kilos)
- proportional with number of head

To write, retrieve, check and execute the program, use the four keys present on the indicator.










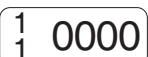



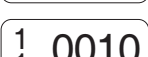

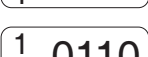

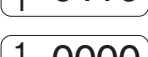







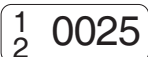

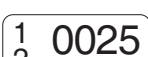

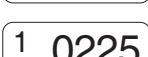
The user should prepare a list of all the ingredients values in order to program the computer correctly.




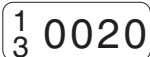

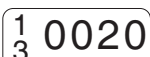

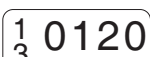



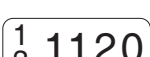

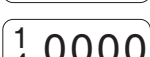



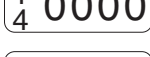

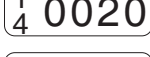

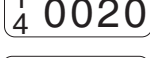

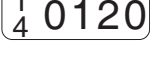
### Programming with total weight

Example - Program the recipe N.1 including the following ingredients:

N.1 of 110 kg, N.2 of 225 kg, N.3 of 1120 kg and N.4 of 120 kg.




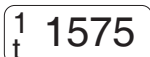

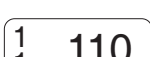
Go on as follows: switch the indicator on and wait a few minutes.

PRESS		DISPLAY
	Twice; the indicator display shows	
	To confirm that you want to program; the indicator display shows	
	To confirm recipe N.1; the number of head is shown	
	The program is with total weight, so leave the value at "0"	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the value of the ingredient N.1 and to show the ingredient N.2	
	To increase the 1 <sup>st</sup> digit	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the ingredient N.2 and to show the value of the ingredient N.3	

	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the 3 <sup>rd</sup> digit and to select the next one	
	To increase the 4 <sup>th</sup> digit	
	To memorize the value of the ingredient N.3 and to show the value of the ingredient N.4	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	Press more times to skip to the other ingredients and to display the total of the recipe.	

To leave the PROGRAM function, press the key  for 3 seconds.

## LOAD      Recipe N.1 total weight

PRESS		DISPLAY
	To select the load function	
	To confirm the load function and to show the recipe number 1	
	To confirm the execution of the recipe N.1. "inGr" is displayed and a tone confirms that the system is ready to load.	

Load and you will notice that the value will decrease in proportion to the amount loaded.










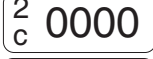





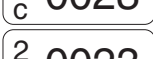



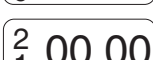



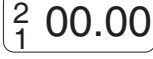

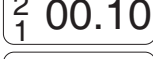

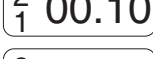

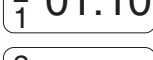

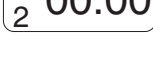



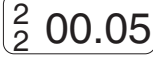



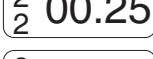

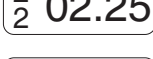

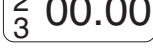
When 85% of the load has been reached, you will hear an intermittent signal: load with care. When 100% has been reached, you will hear a continuous signal: stop loading immediately.








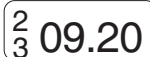







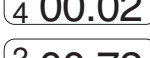

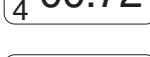
The continuous signal lasts for 5 seconds. After that, the value of the ingredient N.2 will appear on the display. It is ready to be loaded. When the 4 ingredients are loaded, the total weight is displayed.


**PROGRAMMING PROPORTIONAL WITH NUMBER OF HEAD**

Example - Program the recipe N.2 for 123 cows including the following ingredients:  
N.1 of 1,10 kg, N.2 of 2,25 kg, N.3 of 9,20 kg and N.4 of 0,72 kg




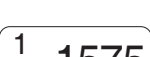





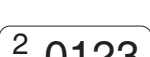
Go on as follows: switch the indicator on and wait a few minutes.

PRESS		DISPLAY
	Twice; the indicator display shows	
	To confirm that you want to program; the indicator display shows you the amount of the recipe N.1 (previous example)	
	To increase the recipe number	
	To confirm recipe N.2; the number of head is displayed	
	To increase the 1 <sup>st</sup> digit	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the number of head and to show the ingredient N.1	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the ingredient N.1 and to show the value of the ingredient N.2	
	To increase the 1 <sup>st</sup> digit	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the value of the ingredient N.2 and to show the value of the ingredient N.3	

	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	To memorize the 2 <sup>nd</sup> digit and to select the next one	
	To increase the 3 <sup>rd</sup> digit	
	To memorize the value of the ingredient N.3 and to show the value of the ingredient N.4	
	To increase the 1 <sup>st</sup> digit	
	To memorize the 1 <sup>st</sup> digit and to select the next one	
	To increase the 2 <sup>nd</sup> digit	
	Press more times to skip to the other ingredients and to display the total of the recipe.	

To leave the PROGRAM function, just press the key  for 3 seconds.

## LOAD Recipe N.2 proportional with number of head

PRESS		DISPLAY
	To select the load function	
	To confirm the load function and to show the recipe number 1 and the total weight.	
	To go to the recipe N. 2. The display shows the number of head.	
	To confirm the recipe N.2. The number of head is blinking and can be changed now, if necessary.	
	To confirm the number of head. "inGr" is displayed and a tone confirms that the system is ready.	

Load and you will notice that the value will decrease in proportion to the amount loaded.



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.

The continuous signal lasts for 5 seconds. After that, the value of the ingredient N.2 will appear on the display. The ingredient is ready to be loaded.


When the 4 ingredients are loaded, the total weight is displayed.

## ADDITIONAL FUNCTIONS



### Unload with alarm

The programmed ingredients can be used for loading or unloading. So a recipe can be programmed with values for unloading.


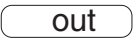

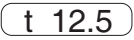







### Restore function

While you are loading or unloading the ingredients of a recipe, it is useful sometimes to restore the programmed value after a displacement. In order to do that, press once the key  and the system is ready to load or unload the programmed value.

### HOLD function

While you are loading or unloading, when the feeder is moving or standing on uneven ground, it is sometimes necessary to put the weighing system on hold. In order to do that, press once the key  . To cancel this function press again  .

## DISPLAYED MESSAGES

	The system is switched on		Alarm outlet damaged
	Battery level		Battery value
	Taring the system		Tare error
	Loading function		Out of range (low)
	Program function		Out of range (high)
	Weight is on "hold"		

## MAINTENANCE

Farm Scale mod. 9941 does not require any regular maintenance, however it is necessary to check the conditions of the system periodically.

- 1) Make sure that there are no disturbing elements between the supporting chassis and the platform or the container, the basin, feeder, etc.
- 2) Make sure that the load cells are undamaged (no cracks or dents) and not rusty or corroded by acids.
- 3) Make sure that there is space enough between the chassis and the components of the weighing system.
- 4) Make a test by loading a weight on each corner: the amount displayed must always be nearly the same.
- 5) Make sure that the connectors are tight and that the cables are undamaged (no cuts or abrasions). Remember that, where food is stored or handled, small rodents often gnaw cables situated in hidden or scarcely reachable places.

**BATTERY TEST**

The battery test should be made periodically to make sure that the electric voltage is within the optimal range.

The indicator is switched off: keep the ENTER key pressed and switch the indicator on by using "ON/OFF". Read the tension value. You can leave the indicator a long time in this position, so you can check how the battery is working (efficiency and voltage maintenance). The value should be between 12 and 14,5 volt. To leave this function, press the "ENTER" key.

**TROUBLES AND SOLUTIONS**

Here is a list of troubles and their solutions. If your problem with the weighing system is not included in this list, call your seller or the producer Perin WEIGHMASTER.

Attention: switch the Farm Scale on at least 10 to 15 minutes before the tests.

TROUBLES	SOLUTIONS
The system does not switch on	check polarity, connections, external fuses, battery and cables.
The system switches on, but after a short time it switches off	recharge the battery; check connections, external fuses, battery, cables.
Unstable value on the display	check the state of the load cells, cables and connectors.
The weight value displayed "flows" towards a direction (20-30 times in an hour)	the indicator is switched on. Disconnect the load cells one by one. If the load cells are all right, then check the junction box and the cable connecting it to the indicator.
The weight value displayed is not exact with a small error in percentage	the system is probably not calibrated. It may have received shocks or it has moved on uneven grounds or it has settled (see "partial weighing").
The displayed weight value is wrong (more than 10% )	check the zero. Make sure that there are no disturbing elements between chassis and counterchassis. Put a test weight on every corner, possibly near the load cells. If one of the cells presents great differences in comparison to the others, ask for technical assistance.
While loading, the alarm does not work	check the binary connector. Use a 12 Volt battery to supply separately the alarm device. Substitute it with a new alarm if necessary.
The indicator displays the message "Or-L" o "Or-H"	out of range (high or low): check the connectors and the load cell cables; disconnect the load cells one by one. Substitute the damaged element. Reset the connections.
The indicator displays the message "BAtt"	recharge the battery and reset the connections.



**DECLARATION OF CONFORMITY**



**PERIN WEIGHMASTER S.r.l.** declares that the electronic equipment Farm Scale mod. 9941  
is in accordance with the rules specified by the directive EMC 89 / 336 - 93 / 68 .

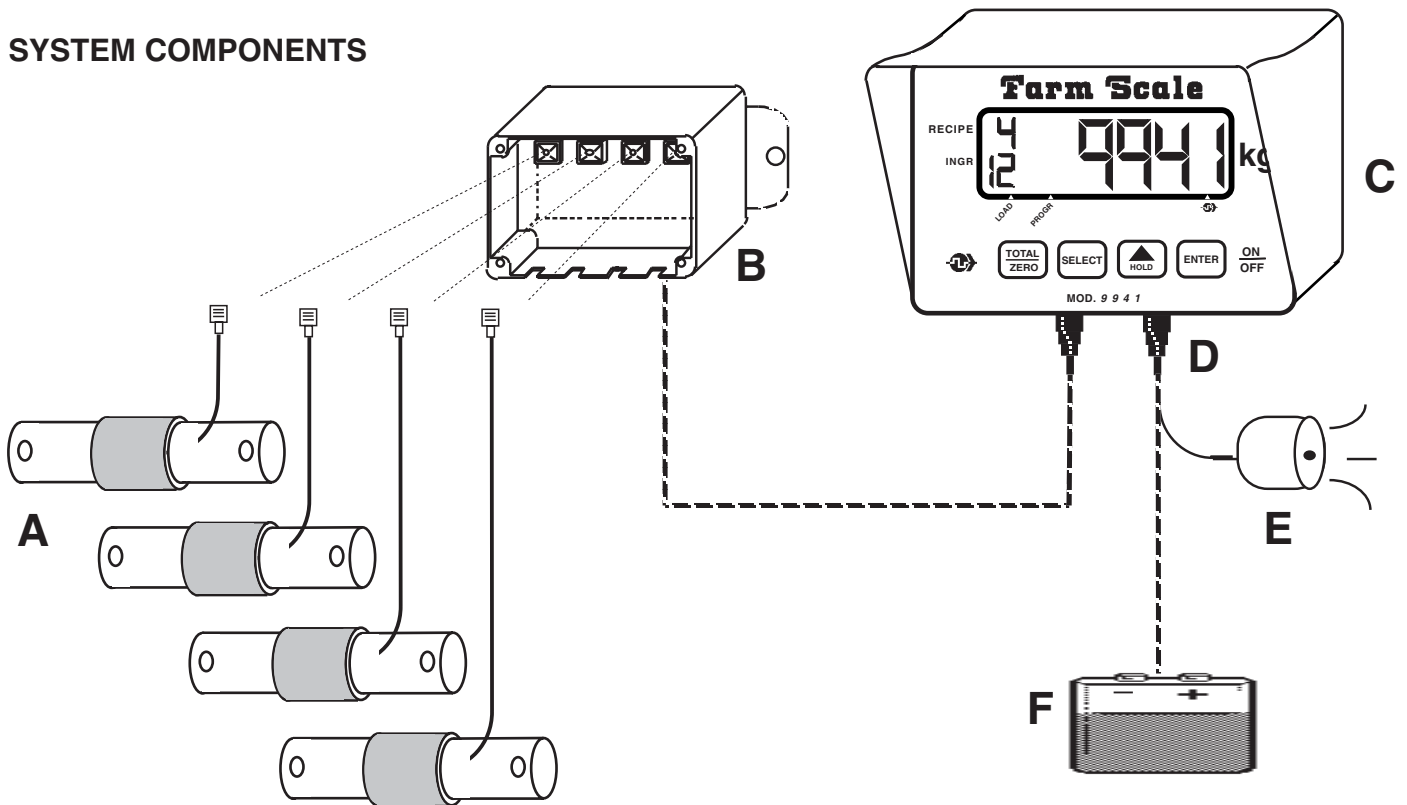
Codogno, 19 March 1999

The technical head

A handwritten signature in black ink that reads 'Fabio Perin'. The signature is written in a cursive style with a long horizontal stroke at the end.

Fabio Perin

**SYSTEM COMPONENTS**



- A) Load cells
- B) Load cells junction box and connection cable
- C) Weight indicator
- D) Connection cable for current supply
- E) Acoustic warning (alarm)
- F) Power source (12 V)

**TECHNICAL DETAILS**

- MICROPROCESSOR CIRCUIT ON A SINGLE BOARD
- SUPPLY VOLTAGE
- WORKING TEMPERATURE
- CONNECTORS MILITARY - TYPE
- DISPLAY TYPE
- DIGITS FOR THE WEIGHT:  
AND FOR THE RECIPE AND THE INGREDIENT NUMBER:
- INDICATOR FOR THE FUNCTIONS: EXECUTION AND PROGRAMMING
- PROGRAMMABLE DIVISIONS
- GREATEST RESOLUTION
- MEMORY OF RECIPES:  
EACH WITH
- PROGRAMMING WITH NUMBER OF HEAD (WITH TWO DECIMALS) OR TOTAL WEIGHT
- AUTOMATIC CALCULATION OF THE PROPORTIONAL INCREASE OF THE LOAD INGREDIENTS
- THE INGREDIENTS CAN BE USED FOR THE LOADING OR THE UNLOADING
- PREALARM AT 85%, ALARM (FOR 5 sec.) AT THE COMPLETE LOADING / UNLOADING
- "Err Out" MESSAGE IN CASE OF SHORT CIRCUITS AT THE OUTLET
- "bAtt" MESSAGE IN CASE OF LOW BATTERY LEVEL
- TARING AND CALIBRATION WITH A BUTTON
- HERMETIC ENCLOSURE OF ABS
- REMOTE DISPLAY OUTPUT (OPTIONAL)

**9941**

12V 0,3 A  
-10° /+40°C

LCD backlit  
5 DIGIT H 25 mm  
3 DIGIT H 10 mm

1 - 2 - 5 - 10  
110.00 POINTS  
4 RECIPES  
12 INGREDIENTS

NO

**9941  
GOLD SERIES**

12V 0,3A  
-10° / +40°C

LED red  
4 DIGIT H 40 mm  
4 DIGIT H 10 mm

1 - 2 - 5 - 10  
110.000 POINTS  
15 RECIPES  
16 INGREDIENTS

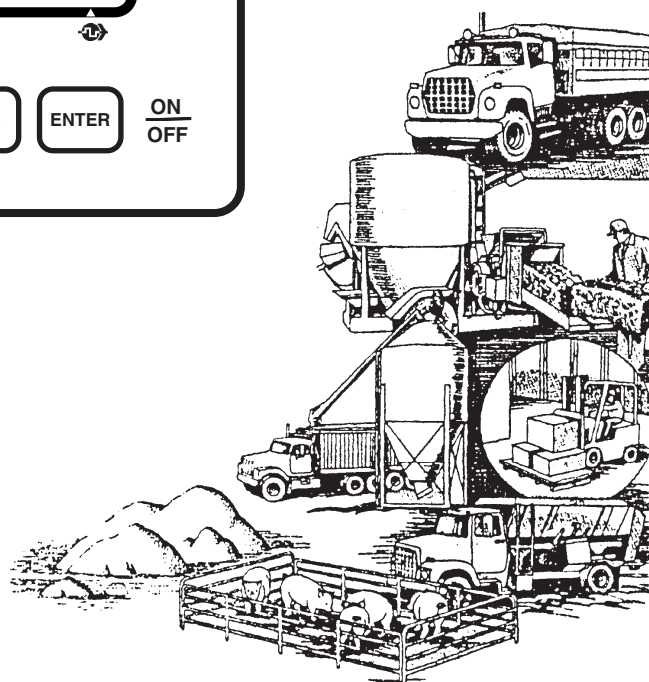
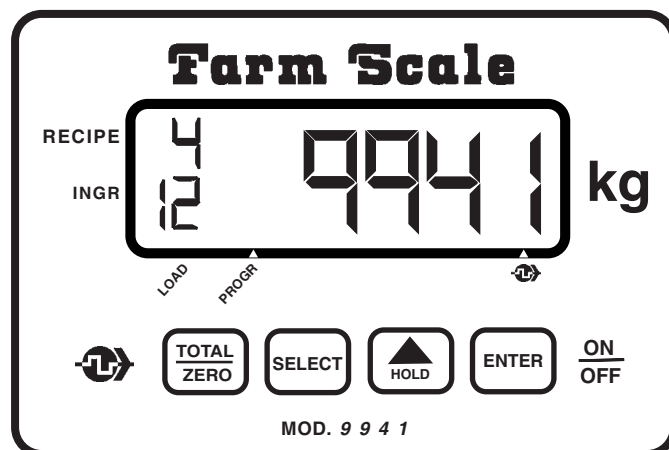
YES



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# Farm Scale

mod. 9941  
mod. 9941 Gold Series



## HANDBOOK