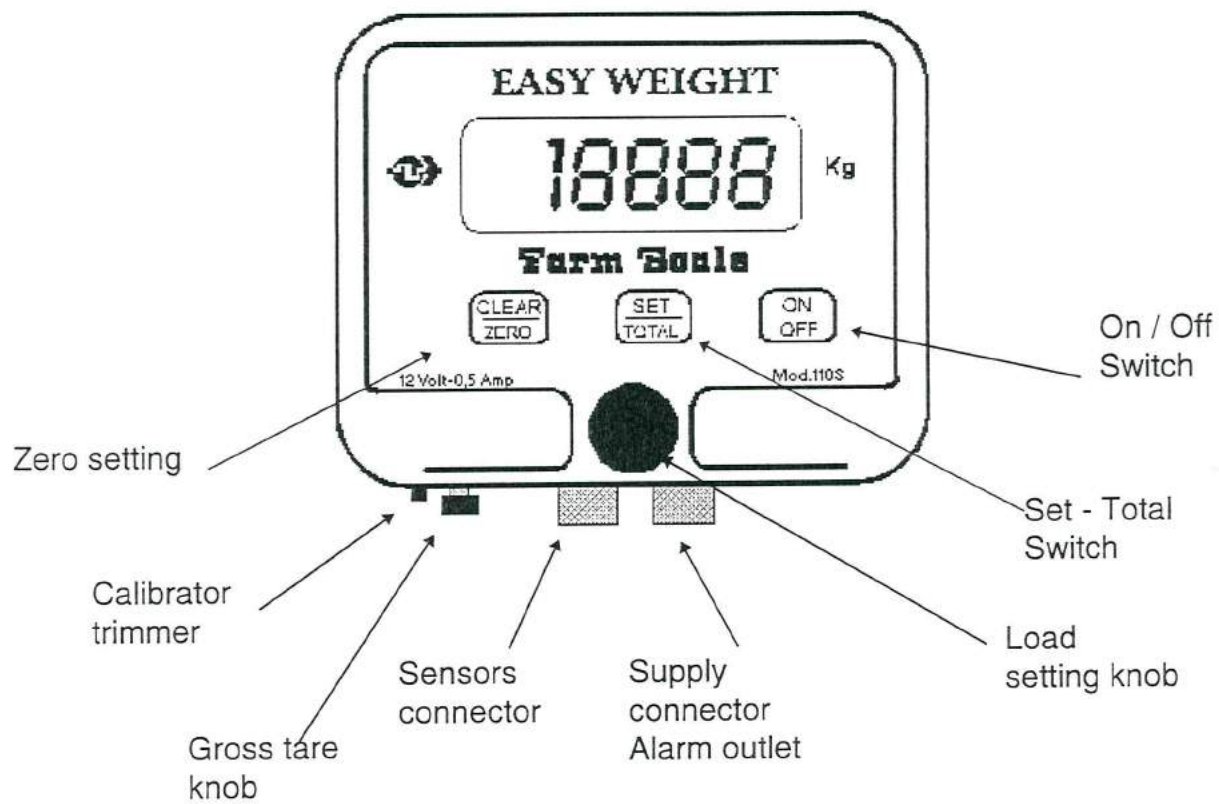


COMPUTER

"110 S"

USER'S GUIDE



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1 - CONTROLS



- Switch on/switch off and test



- Set the alarm for loading/unloading
- Check the totals



- If pressed for a few seconds it sets to zero the value on the display
- If pressed for 6 seconds it can automatically set the tare

2 - GENERAL INFORMATIONS

2.1 - GENERAL SAFETY GUIDELINES

The Committee of the European Community imposes that every electronic equipment put on the market must be equipped with marking **CE**, to assure the presumed conformity to the provisions imposed by CEE Guidelines applicable to it.

The conformity to the 89/336/EEC Standard entails the observance of the following European Standards:

- EN 50081-1 (1992) - Electromagnetic Emission
- EN 50082-1 (1992) - Electromagnetic Immunity

The equipment, described in this guide, can present anomalies in the functioning or causing them to the equipments that surround it or connected with it, if it isn't installed and used in strict accordance with the instructions described below. In any case, it's not sure that these anomalies don't happen in a specific installation. If some trouble should appear, contact *Technical Service and Support* that can suggest some stratagems to adopt for eliminating the discovered troubles.

For respecting the Standards, it's also compulsory to point out, in a clear, easily readable and indelible way, the Maximum Capacity of the instrument indicated in kilogram or ton, before the equipment is put on the market. On the left side of the machine there is a label for identifying the products with the indication of the true Maximum Capacity of the whole weighing system. The Maximum Capacity value to be pointed out is the least one among the one of the instrument, the one of the Load Cells and the one of the mechanical structure of the wagon.

Any modification or intervention on the equipment that isn't approved in writing could annul its conformity to the Guidelines and make its use forbidden.

The equipment has been tested and found in accordance with the Guidelines during the test that demands the use of shielded cables and facilities in accordance with the requirements of the Guidelines. So the conformity to the Guidelines is guaranteed only if facilities and replacements of authentic parts are used. Instead if non-authetic facilities are used, consult *Technical Service and Support* for more information.

3 - IMPORTANT SAFETY GUIDELINES

Before connecting the equipment to the power supply, read the following **Safety Guidelines**, in order to protect yourself and the equipment from any serious danger.

The instructions given below must be followed, before proceeding with the use of the equipment:

- Read carefully all the documentation accompanying the equipment.
- Follow all the instructions and precautions concerning the equipment.

Immediately disconnect the Power Supply and Alarm Cable in the following cases:

- If the connecting cables or the connectors are worn out or damaged.
 - If liquid is present, even in the form of moisture, inside the equipment.
 - If the container of the equipment shows damage or breaks.
 - If it is felt that the equipment requires maintenance or repair.
 - Before opening the case of the equipment.
 - Before carrying out any maintenance operation.
- ▲ **Warning:** electrical equipment can be dangerous if used improperly. Functioning of the equipment and all the parts forming the Weighing System must always occur strictly under the control of an adult. Children must not be allowed access to the internal part of any electrical equipment and they must not be allowed to touch any kind of cable.
- ▲ **Warning:** before cleaning the mixer wagon with high pressure jets of water, disconnect the connection cables, remove the equipment from the mixer wagon and protect the connectors of the connection cables from water infiltration. Also take great care to see that the Load Cells, Junction Box, Alarm Device (Siren) and other Options are not exposed to direct jets of water.
- ▲ **Warning:** before carrying out welding operations on the mixer wagon, always disconnect the connection cables. In order to prevent the welding current from passing through the Load Cells, it is necessary to "short circuit" the body of the Load Cells with a cable having a suitable cross section, besides positioning the pliers of mass as close as possible to the welding point (ask to the after-sales service for further informations).
- **Caution:** if the equipment has a problem that is not dealt with in the documentation supplied, contact *Technical Service and Support*. Interventions by unauthorized persons will invalidate the **Warranty Conditions**. For further information on the **Warranty Conditions**, contact *Technical Service and Support*.

4 - MAINTENANCE

The Weighing Systems for mixer wagons do not require special maintenance operations. However, in order to prevent problems in running or breakdowns, it is advisable to carry out the following operations periodically:

- Check the perfect running of the power wires outside the equipment; also check for the presence of oxides or humidity at the connection points.
It must be remembered that, very often in areas where food items are handled, small rodents may be present, which can attack the cables placed even in places that are not easily accessible.
- Check that the level of the supply voltage of the equipment falls within the limits following: 11 - 18 volts.
- Check that the Load Cells do not show bruises; presence of any rust on the body of the Load Cell does not impair proper running.
- Pay special attention to the presence of any cracks in the sealant, as it may cause infiltration of moisture.
- Check, by loading a known weight(minimo 500 Kg.) on the mixer wagon, the correspondence of the loaded weight with the displayed weight of the equipment.
- Check the fastening of all the screws present on the parts that constitute the Weighing System.

▲ **Warning:** before cleaning the mixer wagon with high pressure jets of water protect the instrument from direct jets of water. Also take great care not to expose the Load Cells, Junction Box, Alarm Device (Siren) and other Options to direct jets of water.

▲ **Warning:** if the equipment needs cleaning operations, use a damp cloth, soft and without fluff. Never use sprays, solvents, abrasives, pointed or cutting objects which may damage the container.

▲ **Warning:** Any modification or intervention on the equipment that isn't approved could annul its conformity to the Guidelines and make its use forbidden.

5 - TARE ZERO SETTING

Follow this procedure to execute tare zero setting.

1. Switch on the equipment by pressing the **"ON-OFF"** key: the display shows the message **"HELLO"** .
2. In a few seconds the display shows **"0"** or a value which is close to zero
3. Press the **"CLEAR-ZERO"** key for a few seconds and the display shows the message **"C....."** followed by some figures (for ex. **"C1234"**).
4. Turn the knob situated under the equipment until the display shows a number which is as close as possible to zero
5. Press again the **"CLEAR-ZERO"** key and the display shows **"0"** .

6 - SIMPLE WEIGHING

If a partial weighing is to be carried out, the equipment can be used as a normal scale by following this procedure.

1. Switch on the equipment by pressing the **"ON-OFF"** key and the display shows the message **"HELLO"**.
2. After a few seconds the display show the message **"0"**: the equipment is ready to weigh.
3. Press the **"CLEAR-ZERO"** key and load the first component: the display shows the loaded weight.
4. After loading the first component press the **"CLEAR-ZERO"** key.
5. Start again the procedure from point **3** for the loading of the remaining components.
6. After the loading of all the components, press the **"SET-TOTAL"** key:the display shows the total loaded weight.

7 - WEIGHING WITH ALARM

If you want to use the equipment for some programmed weights, follow this procedure:

1. Switch on the equipment by pressing the **"ON-OFF"** key. The display shows the message **"HELLO"**.
2. After some seconds the display shows **"0"**.
3. If you want to load a weight, for ex. 100 Kg, press the **"SET-TOTAL"** key and at the same time turn the knob, the display shows **"A 100"**.
4. Release the **"SET-TOTAL"** key. The acoustic alarm sounds short pulses.
5. Start loading the component. The display shows the decrease of the weight. When the showed weight reaches about 85% of the programmed weight, the acoustic alarm starts sounding intermittently. Continue to load until the programmed weight is reached (the display shows the programmed value). The alarm sounds continuously for about 5 seconds and then the display shows the total loaded weight.
6. The equipment is ready to programme a new weight; repeat the procedure starting from point no. 3.

8 - ADDITIONAL FUNCTIONS

SUPPLY VOLTAGE READING

The ***Supply Voltage Reading*** Function makes it possible to know the exact value in Volts of the voltage with which the equipment is being supplied; this must be of at least 11,5 volts. As the equipment is normally supplied by a Battery, problems often arise due to charging/discharging of the Battery. When the equipment is functioning normally, a special electronic circuit continuously checks the Battery's charge value, and shows this information on the display using appropriate messages.

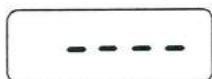
The ***Supply Voltage Reading*** Function can only be carried out during the switching on.

1. Press simultaneously the **"SET-TOTAL"** and **"ON-OFF"** keys, the display shows the message **"TEST"**; release the keys and the display shows a message, for ex. **"t 12,5"**, which means that the supply voltage is **12,5**.

2. Switch off the equipment to return to the normal weighing activity.

9 - PROBLEM SOLVING

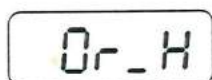
The equipment automatically analyzes the most common problems which can impair the normal running, showing the relative Error Codes on the display.



Contact the *"After-Sales Service"*.



Contact the *"After-Sales Service"*.



Contact the *"After-Sales Service"*.

9.1 MESSAGE *"BATT"* low battery

During the loading of a component, or during the loading of a partial weight, the display can show these messages:



switch off the equipment and charge the battery with a battery charger. Control the eventual cause of the damage by controlling the connection cables to the tractor.

Contact the *"After-Sales Service"*.

9.2 MESSAGE *"OUT"* damaged acoustic alarm



turn off the equipment, disconnect and control the acoustic alarm. Control the connection cables to the equipment..

Contact the *"After-Sales Service"*..

9.3 MESSAGE "ADJ" tare adjusting

Adj

during the zero setting of the equipment this message shows that it is necessary to adjust the tare.

**TO CONTACT THE AFTER-SALES SERVICE
CALL YOUR DEALER OR CALL DIRECTLY N° ++ 39/45/6134340**