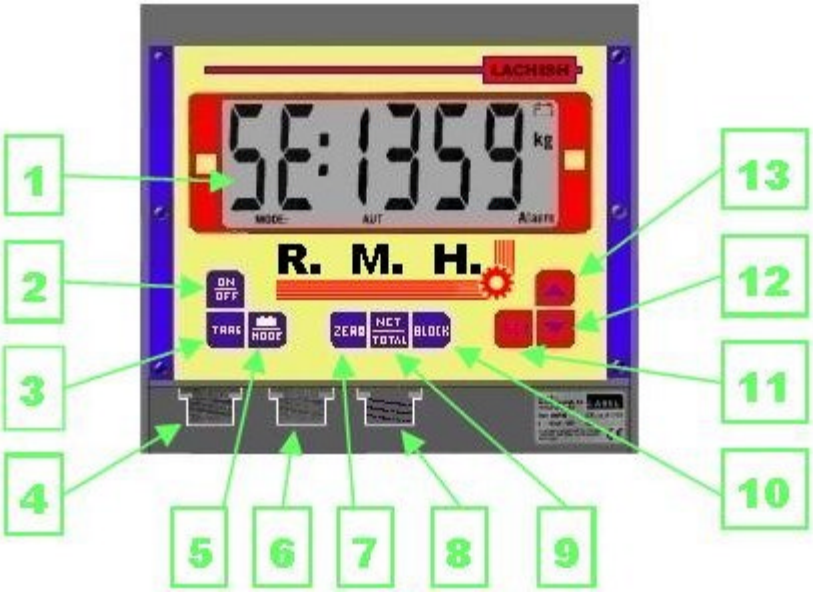
SIMPLE FEED XL



[1] Display indicates weight values and help messages.

[2] On / Off Switch

[3] Press to make the **No-Load Tare** of the wagon. *Warning : check that the wagon is empty before pressing it.*

[4] Load Cell signal connector

[5] Press to check the scale supply voltage

[6] Power Supply and Alarm connector

[7] Returns display to zero. You can operate for partial weighing

[8] Optional connector

[9] Allows the Partial/Total Weight indication

[10] Provides the hold of the indication during wagon movements on the road.

[11] If you want to operate with pre-set alarm, press this key with [12] or [13] keys to set your pre-set value

[12] Provides with **SET** key to decrease the Pre-Set value

[13] Provides with **SET** key to increase the Pre-Set value

USER'S GUIDE

INDEX

1 - GENERAL INFORMATION

For correct installation, even if carried out by expert staff, it is necessary to read all the documentation supplied together with the equipment. If the instructions provided are found to be incomplete or difficult to understand, contact Technical Service and Support.
It must be remembered that a large number of running problems result from "faulty" installation.

1.1 - GENERAL SAFETY GUIDELINES

The Committee of the European Community imposes that every piece of 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.
This equipment, which has been tested, is in accordance with the requirements of the 89/336EEC Standard concerning the Electromagnetic Compatibility, with the requirements of the 73/23/EEC Standard concerning the Low Voltage and with the requirements of the 90/384/EEC Standard concerning the Non-Automatic Weighing Instruments.
As regards 89/336/EEC, the equipment results in accordance with the limits imposed for environments of the light industry and for residential and commercial environments. 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 the equipment that surrounds 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 strategies 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 kilograms or tons, before the equipment is put on the market. Near the connectors there is a label for identifying the products (see the example). It has been purposely prepared for being completed with the indication of the true Maximum Capacity of the whole weighing system.

Identification Label

Any modification or intervention on the equipment that isn't approved in writing by Label 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-authentic facilities are used, consult *Technical Service and Support* for more information.

1.2 - 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 installation or use of the equipment:

- Read all the instructions for the installation, before connecting the Power Supply and Alarm Cable.
- 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.

Caution: if the equipment has a problem that is not dealt with in the documentation supplied, contact Technical Service and Support. Interventions by unauthorised persons will invalidate the Warranty Conditions. For further information on the Warranty Conditions, contact Technical Service and Support.

1.3- 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 given in - *Appendix B - Specifications (Technical Guide).*
- 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. Instead, check the perfect adhesion between the silicon sealant and the body and the silicon sealant and the cover, paying special attention to the presence of any cracks in the sealant, as it may cause infiltration of moisture.
- Check that none of the accessories of the equipment show the presence of bruises or signs of burning.
- Check, by loading a known weight 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, disconnect the connecting cables, remove the equipment from the mixer wagon and protect the connecting cables 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 in writing by Label could annul its conformity to the Guidelines and make its use forbidden.

2 - USE DESCRIPTION

2.1 - SWITCHING ON

1.) Check the correct connection of the Sensors Extension Cable, the Power Supply and Alarm Cable, and the option devices.

2.) Switch on the equipment, by pressing the **ON/OFF** key.

3.) The display shows the message FEEdEr for 5 seconds.
During this period, the equipment carries out a cycle of auto diagnosis, to check the correct running of all its parts.
After 5 seconds, the equipment enters the Scale Activity.
The display shows the message **MODE: MAN** and the message t X, where **MODE: MAN** indicates that the Scale Activity has been selected, t indicates that the display is showing the Total Weight, while **X** is the value of the Total Weight.

Warning: if on switching on the display shows the intermittent symbol or the message LbAt or HbAt or Err 1 or any other error messages, consult the Appendix A - Error Codes.

Caution: the Display Resolution, the Unit of Measurement and the Number of Decimal Figures displayed by the equipment depend on the values set in the Setup Parameters

4.) If necessary, carry out the No-Load Tare Function (chap. 3.1}. The No-Load Tare Function must be carried out when, with the mixer wagon box empty, the Total Weight is other than "zero".

5.) Now it is possible to start the loading and unloading operations in the Scale Activity, or to carry out the Manual Weighing Activity, or the Weighing with Pre-Set Activity.

6.) To switch off the equipment, press the **ON/OFF** key.

Warning: if the equipment does not switch on or switch off during the running, consult *Appendix C- Troubleshooting (Technical Guide)* or contact the *Technical Service and Support*.

Warning : if during the running of the equipment, the display shows the message LbAt or HbAt or Err 1 or 99999 or any other error messages, consult *Appendix A - Error Codes.*

Caution: if you wish to check the supply voltage of the equipment, use the *Supply Voltage Reading* Function (chap. 3.3).

Caution: in preparing this guide, the display of the weight is described considering that in the Setting the Number of Decimal Figures Procedure the "zero" value was programmed (no decimal number). If in the Setting the Number of Decimal Figures Procedure a number other than "zero" is programmed, it is necessary to take into consideration the correct reading of the Guide in all situations.

Caution: the equipment is provided with Technical Procedures (see Table A) which make it possible to program different Setup Parameters, in order to satisfy the actual requirements of the end user. For this purpose, it is advisable, while installing the equipment, to program the Setup Parameters according to the requirements. In fact, it is the programming of the Setup Parameters that determines the exact method of running of the equipment.

2.2- SCALE ACTIVITY

In the Scale Activity the equipment constantly displays the Total Weight of the material present inside the box. Loading and unloading, the equipment will display all the changes in weight. The Total Weight displayed is always net of the weight (box) subtracted with the ***No-Load Tare*** Function.

1. On being switched on, the equipment automatically enters the Scale Activity.

The display shows the message **MODE: MAN** and the message  , where **MODE: MAN** indicates that the Scale Activity has been selected,  indicates that the display is showing the Total Weight, while **X** is the value of the Total Weight.
Loading or unloading, the weight displayed increases or decreases, as in a needle scale.

2. If necessary, carry out the ***No-Load Tare*** Function (chap. 3.1).
The ***No-Load Tare*** must be carried out when, with the mixer wagon box empty, the Total Weight is other than "zero".

Warning: if during the running of the equipment the display shows the intermittent symbol  or any other error messages, consult the *Appendix A - Error Codes.*

Caution: the Display Resolution, the Unit of Measurement and the Number of Decimal Figures displayed by the equipment depend on the values set in the Setup Parameters.

Caution: if you wish to check the supply voltage of the equipment, use the Supply Voltage Reading Function (chap. 3.3).

2.3- MANUAL WEIGHING ACTIVITY

In the Manual Weighing Activity, it is possible to carry out loading and unloading operations, without having to program any values previously. The possibility of displaying, besides the Total Weight, also the Partial Weight of the Ingredient, makes it possible to load and unload an unlimited number of Ingredients.

1.) On switching on, the equipment automatically enters the Scale Activity. The display shows the message **MODE: MAN** and the message  , where **MODE: MAN** indicates that the Manual Weighing Activity has been selected,  indicates that the display is showing the Total Weight, while **X** is the value of the Total Weight.

Caution: the Display Resolution, the Unit of Measurement and the Number of Decimal Figures displayed by the equipment depend on the values set in the Setup Parameters. **2.)** If necessary, carry out the ***No-Load Tare*** Function (chap. 3.1). The ***No-Load Tare*** Function must be carried out when, with the mixer wagon box empty, the Total Weight is other than "zero".

3.) Press the **ZERO** key and keep it Pressed. The display shows the message  .

4.) After 3 seconds, the display shows the message  , where **P** indicates that the Partial Weight is being displayed, while **X** is the value of the Partial Weight (equal to "zero" immediately after pressing the ZERO key).

5.) Start loading or unloading the Ingredient. The display shows the Partial Weight loaded, or the Partial Weight unloaded with a negative sign.

6.) When the weight displayed reaches the required value, it means that the desired quantity of material has been loaded or unloaded.

7.) If a new Partial Weighing is to be carried out, press the **ZERO** key and, keeping it pressed, repeat the procedure at point 4.

8.) Press the **NET/TOTAL** key to display the Total Weight. The display shows the message  , where  indicates the display of the Total Weight, while **X** is the value of the Total Weight. Press the ***NET /TOTAL*** key to display the Partial Weight again.

Warning: if during the running of the equipment the display shows the intermittent symbol  or any other error messages, consult the *Appendix A - Error Codes.*

Caution: if it is necessary to shift the mixer wagon during the loading and unloading operations, use the ***Weight Block*** Function (chap. 3.2).

Caution: if you wish to check the supply voltage of the equipment, use the ***Supply Voltage Reading*** Function (chap. 3.3).

2.4- WEIGHING WITH PRE-SET ACTIVITY

In the Weighing with Pre-Set Activity, it is possible to program the value of the weight of the Ingredient to be loaded or unloaded. In this way, by programming one Ingredient at a time, a Recipe can be carried out with an unlimited number of Ingredients. On reaching 85% of the programmed Pre-Set, the Alarm Device is activated.

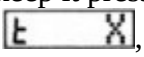
1. To enter the Weighing with Pre-Set Activity, from any other Activity, press the **SET** key and keep it pressed. The display shows the message **MODE: PROG** and the message SE: X, where **MODE: PROG** indicates that the Programming of Weighing with Pre-Set Activity has been selected, SE indicates the programming of the Pre-Set value relative to the weight of the Ingredient to be loaded or unloaded, while **X** is the value of the programmed Pre-Set.

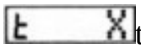
Important: after switching on the equipment, the first time the **SET** key is pressed, the value displayed is always 1; on the other hand, in subsequent programming, the value displayed is that relative to the last Pre-Set programmed.

2. Keeping the **SET** key pressed, press the ▲ key to increase the Pre-Set value or the ▼ key to decrease the Pre-Set value.
The increase / decrease of the Pre-Set value may be impulsive or continuous, depending on whether the ▲ key or the ▼ key is pressed and stop pressed immediately, or kept pressed. During the programming of the Pre-Set, the **SET** key must always be kept pressed. The maximum programmable value of the Pre-Set is 9999. 3. Stop pressing the **SET** key, to start the loading and unloading operations. The display shows the message **MODE: AUT** and the message SE: X, where **MODE: AUT** indicates that the Execution of Weighing Pre-Set Activity has been selected, intermittent SE indicates execution of the Weighing with Pre-Set, while ::**X**:: is the value of the Weight that remains to be loaded or unloaded to reach the previously programmed value. On loading or unloading, the weight displayed decreases. When the weight displayed reaches 15% (Pre-alarm) of the programmed Pre-Set value, the display shows the symbol **Alarm** intermittently, while the equipment activates the Alarm Device intermittently. If the Alarm Device is a Siren, the "Pre-alarm", is signalled by an intermittent sound. While continuing the loading or unloading, the frequency of the sound changes till it becomes continuous when the weight displayed is "zero". When the display shows the "zero" value, it means that the programmed quantity of material has been loaded or unloaded; the equipment activates the symbol **Alarm** continuously and the Alarm Device for a period of 5 seconds (Queue Time). If during the "Queue Time" the display shows a value with a negative sign, it means that a quantity of material equal to the displayed value has been loaded or unloaded in excess, compared with the programmed value. After the "Queue Time", the equipment returns to the Scale Activity. The display shows the message t X, where t indicates the display of the Total Weight, while **X** is the value of the Total Weight.

Important: if it is desired to interrupt the execution of the Weighing with Pre-Set for loading or unloading another Ingredient, repeat the procedure at point 1.

4. For loading or unloading another Ingredient, repeat the Procedure at point 1.

5. Press the **NET /TOTAL** key and keep it pressed, to display, the Total Weight. The display shows intermittently the message  , where  indicates the display of the Total Weight, while :**X**: is the value of the Total Weight. Stop pressing the **NET / TOTAL** key to display again the Partial Weight.

Caution: if the **NET /TOTAL** key is kept pressed for more than 3 seconds and the message  turns from intermittent to fixed, it means that one has exited from the Weighing with Pre-Set Activity and entered the Scale Activity.

6. To interrupt the Weighing with Pre-Set Activity and to return to Scale Activity, press the **NET /TOTAL** key for 3 seconds.

Warning: if during the running of the equipment the display shows the intermittent symbol  or any other error messages, consult the *Appendix A - Error Codes*.

Caution: if it is necessary to shift the mixer wagon during the loading and unloading operations, use the Weight Block Function.

Caution: if you wish to check the supply voltage of the equipment, use the *Supply Voltage Reading* Function.

3 FUNCTIONS

3.1 - NO-LOAD TARE

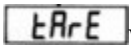
The ***No-Load Tare*** Function makes it possible to subtract from the displayed weight, the value represented by the mechanical structure (box) of the mixer wagon. For this reason, the ***No-Load Tare*** must always be performed with the mixer wagon box completely empty. If operations are being performed that may modify the weight of the mixer wagon box, it will be necessary to carry out a new ***No-Load Tare***.

It is however advisable, also because of the extreme simplicity of the operation, to carry out the No-Load Tare every day, before starting the Weighing operations.

The Total Weight displayed by the equipment is always net of the weight subtracted with the ***No-Load Tare***. For this reason, if with the mixer wagon box empty, the Total Weight is other than "zero", it is necessary to carry out a new No-Load Tare.

The No-Load Tare Function can be carried out only in the Scale Activity and in the Manual Weighing Activity.

To carry out the ***No-Load Tare*** Function, proceed as follows.

1. Press the ***TARE*** key and keep it pressed. The message  will be displayed.

Caution; the ***No-Load Tare*** Function can be carried out only in the Scale Activity and in the Manual Weighing Activity.

Caution; the ***No-Load Tare*** Function must always be performed with the mixer wagon box completely empty.

2. After 4 seconds, the display shows the message  , where  indicates the display of the Total Weight, while **X** is the value of the Total Weight.

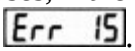
3. Stop pressing the ***TARE*** key. The equipment enters the Scale Activity.

Warning; if during the running of the equipment the display shows the intermittent symbol  or any other error messages, consult the *Appendix A - Error Codes*.

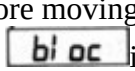
Caution; in the Manual Weighing Activity, immediately after carrying out the ***No-Load Tare***, the Total Weight and the Partial Weight both assume identical values. Furthermore, after having performed the ***No-Load Tare*** Function, the display always shows the Total Weight.

3.2- WEIGHT BLOCK

The ***Weight Block*** Function makes it possible to block the value of the weight displayed. This Function becomes very important when it is necessary to move the mixer truck during loading and unloading operations, as movement of the mixer wagon is always a cause of errors in calculating the weight. Using the ***Weight Block*** Function during the loading and unloading operations, and before moving the mixer wagon. Wrong measurement of the weights loaded or unloaded is avoided, while in the Weighing with Pre-Set Activity, reaching the programmed Pre-Set value and as a result the activation of the Alarm Device is avoided.

It is not possible to carry out the ***Weight Block*** Function in the Weighing with Pre-Set Activity during the "Queue Time" phase or in the Manual Weighing Activity when the Total Weight is displayed, or in the Scale Activity; in these cases, if the **BLOCK** key is pressed, the display shows the message  .

To carry out the Weight Block Function, proceed as follows.

1. With the mixer wagon stationary, and before moving it, press the **BLOCK** key. The display shows the message  intermittently.

Caution: the ***Weight Block*** Function may only be carried out in the Weighing with Pre-set Activity, (but not during the "Queue Time" phase), and in the Manual Weighing Activity, (but not when the Total Weight is displayed)

2. Move the mixer wagon to the required zone.

3. After stopping the mixer wagon, wait for 10 seconds and then press the **BLOCK** key. The display again shows the weight indicated before the **BLOCK** key was pressed. The equipment is ready to continue the Weighing operations interrupted by the mixer wagon having been moved.

Warning: if during the running of the equipment the display shows the intermittent symbol  or any other error messages, consult the *Appendix A - Error Codes*.

3.3- 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 within the range indicated in *Appendix B - Specifications (Technical Guide).* 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 may be carried out in every Activity.

To carry out the ***Supply Voltage Reading*** Function, proceed as follows.

1. Press the **/MODE** key and keep it pressed. The display shows the message bAt XX, where bAt indicates that the ***Supply Voltage Reading*** Function is selected, **X X** indicates the voltage value in Volts.

Caution: the ***Supply Voltage Reading*** Function can be carried out in every Activity.

2. Wait for 5 seconds till the value displayed becomes stable.

3. Stop pressing the **/MODE** key. Wait for 5 seconds. The equipment is ready for continuing the operations interrupted by pressing the **/MODE** key.

Warning: if during the running of the equipment the display shows the intermittent symbol or any other error messages, consult the *Appendix A - Error Codes*.

APPENDIX A - Error Codes

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

Err 1	See the Technical Guide.
Err 2	See the Technical Guide.
Err 3	See the Technical Guide.
Err 4	See the Technical Guide.
Err 6	See the Technical Guide.
Err 7	See the Technical Guide.
Err 10	See the Technical Guide.
Err 15	Is displayed in all Activities when an attempt is made to carry out the Weight Block Function, but it is not possible to do so. It is not possible to carry out the Weight Block Function in the Weighing with Pre-Set Activity during the "Queue Time" phase, in the Manual Weighing Activity when the Total Weight is displayed, and in the Scale Activity.
Err 16	Is displayed in the Weighing with Pre-Set Activity when one tries to carry out the No-Load Tare Function. The No-Load Tare Function can be carried out only in the Scale Activity and in the Manual Weighing Activity.
Err 17	Is displayed when switched on, when Set up Parameters values, previously programmed, are lost accidentally. Switch off the equipment. See the Technical Guide.
Err 18	See the Technical Guide.

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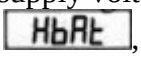
	Is displayed fixedly when the value of the supply voltage is correct. If the display shows the symbol intermittently, it means that the value of the supply voltage is lower than 10 Vdc and that, therefore, the Battery is being discharged; in this case, it's necessary to terminate the Weighing operations quickly and to recharge the Battery. The time available for terminating the Weighing operations depends on the Battery used. If the value of the supply voltage goes down under 8,5 V dc, the scale is turned off automatically; in this case, it's necessary to recharge the Battery immediately. In both cases, if the Battery is connected directly to the alternator of the tractor, it is necessary to have the electrical parts of the mixer wagon and tractor checked by a car technician.
	Is displayed for 2 seconds during the turning on, when the value of the supply voltage is lower than 8,5 Vdc; at the end of 2 seconds, the equipment is turned off automatically. For using the equipment, it's necessary to recharge the Battery. If the Battery is connected directly to the alternator of the tractor, it's necessary to have the electrical parts of the mixer wagon and tractor checked by a car technician.
	Is displayed for 2 seconds during the turning on, when the value of the supply voltage is higher than 32 V dc; at the end of 2 seconds, the equipment is turned off automatically. For using the equipment, it's necessary to have the electrical parts of the mixer wagon and tractor checked by a car technician. If during the running of the equipment, for any reason, the value of the supply voltage is over 32 V dc, the display shows the message  , for 2 seconds, before turning off the equipment automatically.
	See the Technical Guide.

APPENDIX B - Summary of the Settings

Table A shows, for each Set up Parameter, the Default Values stored in the equipment when supplied.
In the empty columns must be stored any modifications of the Set up Parameters and the date of the modification.

Set up Parameters	**Default**			
Version of Equipment	2.2-08.03.00			
Display Resolution	Aut. A			
Digital Filter	b			
Unit of Measure	kilogram			
Number of Decimal Figures	None			
Options	5.11			
Remote Terminal with Cable	Absent			
External Push-button panel	Absent			
Radio Control with 2 Channels	Absent			
Remote Wireless Terminal	Absent			
Control Set-point Value	Absent			
Weight Calibration by Codes	Cod. 1			
Weight Calibration by Parameters				

Table A