INDEX

1 GENERAL INFORMATION

1.1 SAFETY STANDARDS

The Commission of the European Community requires that every electronic device be provided with a CE mark as a guarantee of its presumed conformity to the requirements set by the applicable Community Directives.

Dinamica Generale s.r.l
Via Mondadori c.m.
46025, Poggio Rusco (MN) Italy
Tel. ++39 - 0386 - 52134
Fax. ++39 - 0386 - 51523
E-mail: info@dinamicagenerale.com

CERTIFICATO DI CONFORMITA' n. 003/99
Certificate of conformity

SI DICHIARA CHE IL PRODOTTO:
We declare that the product:

MODELLO: Model:	VIDEO ACTIV III
DESCRIZIONE: Description:	Sistema di pesatura con programmi Weighing system with programs

RISPONDE AI REQUISITI DELLE NORME DI CONFORMITA ARMONIZZATE RICHIESTE DALLA DIRETTIVA 89/336.
is made in conformity with the following directives and standards required by 89/336.

Basic Regulations:
EN 50081-1
EN 55014
EN 55022
EN 60555-2
EN 60555-3

NORMATIVA STANDARD PER LE EMISSIONI ELETTROMAGNETICHE.
EMC generic standard for emission.

Basic Regulations:
EN 50082-1
IEC 801-2
IEC 801-3
IEC 801-4

NORMATIVA STANDARD PER L'IMMUNITA' ELETTROMAGNETICA.
EMC generic standard for immunity.

POGGIO RUSCO, 19/03/1999

If the equipment described in this manual is not installed and used in strict conformity with the instructions provided, it can malfunction or cause other equipment around it, or connected to it, to malfunction.

In observance of the Directives, it is likewise obligatory to indicate the device's Maximum Capacity expressed in units of measurement of kilograms or tons in a very visible way, easily legible and indelible and before its release on the market. On the left side of the machine there is a product identification that shows the real Maximum Capacity of the entire weighing system; the value for the Maximum Capacity is the lesser of that of the equipment, the sensors and the mechanical structure of the support.
Any unauthorized modifications or interventions made to this device could void its conformity with the Directives and render its use prohibited.
This device has been tested and found to conform to the Directive under test conditions that provide for the use of shielded cables and accessories that conform to the requirements of the Directives. Therefore, conformity to the Directives is only guaranteed if original accessories and spare parts are used. If, on the other hand, non-original accessories are used, consult the *Customer Technical Service Department* for further information.

1.2 IMPORTANT SAFETY REGULATIONS

Before connecting the device to electrical power, read the following Safety Regulations to protect yourself and the equipment from serious injury.

You are advised to perform the following before using this device for the first time:

- **Carefully read all of the documentation attached to the device.**
- **Obey all of the instructions and precautions relating to the device.**

Immediately disconnect the power cables and alarms in the following cases:

- **If the connection cables or connectors are worn or damaged.**
- **If there is liquid, even in the form of condensation, inside the device.**
- **If the device's housing shows damage or breakage.**
- **If you believe the device requires maintenance or repair.**
- **Before opening the device's housing.**
- **Before performing any type of maintenance.**

Attention: **Electrical devices can be dangerous if used improperly. The device, and all the parts that comprise the Weighing System must always be operated under the strict supervision of an adult. Do not allow children access to the internal parts of any electrical device and prevent them from handling cables of any type.**

Attention: **before cleaning the mixing carriage with high-pressure water jets, protect the device from possible infiltrations of water. In addition, be very careful not to subject the sensors, junction box, audible signal, cables and any options from direct jets of water.**

Attention: **before performing any welding operations on the mixing carriage, always disconnect the connection cables. Check that there are no sensor connection cables near the welding points. To avoid welding current running through the sensors, it is necessary to "short circuit" the sensor body with an adequate section of cable, in addition to positioning the grounding pincers as close as possible to the welding point. Contact the *Customer Technical Service Department,* for additional information.**

Important: **if the device should exhibit a problem that is not covered in the documentation provided, contact the *Customer Technical Service Department.* Interventions performed by unauthorized persons will invalidate the Warranty Conditions, contact the *Customer Technical Service Department*.**

1.3 MAINTENANCE

The mixing carriage Weighing System does not require particular maintenance operations. However, to prevent operational problems or breakdowns, it is recommended that the following operations be performed on a periodic basis:

- **Verify the proper functioning of the electrical system external to the device, also checking that there is no oxidation or humidity at the connection points.**

Remember that in places where food is handled there are often small rodents who could eat into the cables in places that are not very accessible.

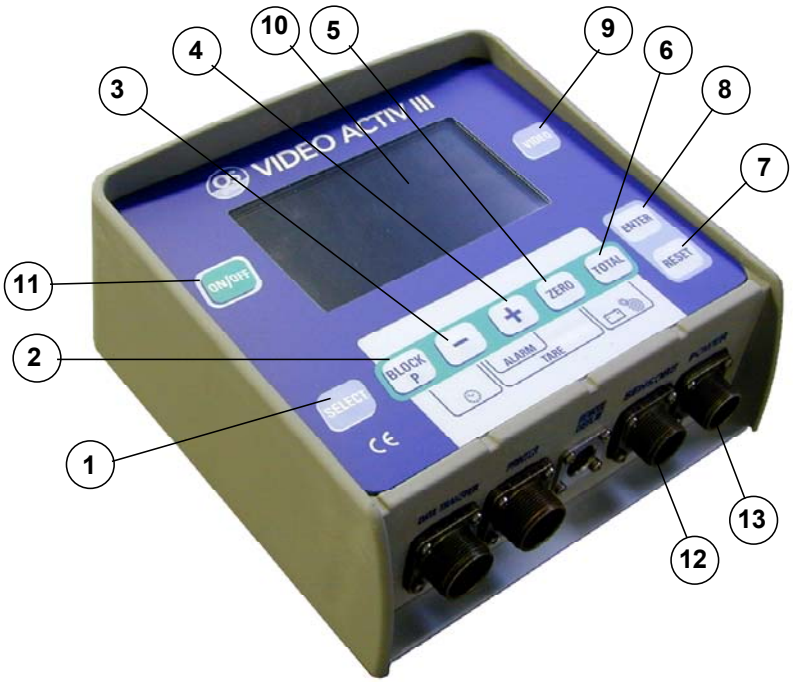
- **Verify that the voltage of the power supplying the device falls with the following values: 11-18 volts.**
- **Verify that the sensors do not exhibit dents; the presence of rust on the outside of the sensors does not affect their proper functioning.**
- **Pay particular attention to the presence of cracks in the sealing material, inasmuch as they could be caused by infiltrations of humidity.**
- **By loading the mixing carriage with a known weight (min. 500 kg), verify the correspondence of the weight loaded with the value displayed on the device.**
- **Verify the tightness of all the screws present on the parts that comprise the Weighing System.**

Attention: **before cleaning the mixing carriage with high-pressure jets of water, protect the device from possible infiltrations of water. In addition, be very careful not to subject the sensors, junction box, audible signal, cables and any options to direct jets of water.**

Attention: **if the device needs to be cleaned, use a damp, lint-free cloth. Never use spray, solvents, abrasives, pointed or cutting objects that could damage the housing.**

Attention: **any unauthorized modifications or interventions made to the device could void its conformity with the Directives and make its use prohibited.**

2 BUTTON DESCRIPTION



1 

The "SELECT" key allows selecting the work mode desired:

- **Executing a loading recipe.**
- **Executing a group of unloads.**
- **Programming a loading recipe.**
- **Programming a group of unloads.**
- **Programming a mixing timer.**
- **Interrogating ingredient accumulation.**
- **Returning to manual mode for simple total or partial weighing.**

2 

The "BLOCK-P" key:

- **Permits temporarily blocking the weight reading:**
  - **During the execution of the loading recipe.**
  - **During the execution of a group of unloads.**
- **With a printer connected, it allows printing on paper, see paragraph 12.1 PRINTER**

3 

The " - " key allows decreasing the programmable values displayed on the screen:

- **Selecting the number of the desired program.**
- **Programming loading ingredients and groups of unloads.**
- **Manual selection of ingredients or unload points in the execution of loading and unloading programs.**
- **Programming alarms in manual mode.**

4 

The " + " key allows increasing the programmable values displayed on the screen:

- **Selecting the number of the desired program.**
- **Programming loading ingredients and groups of unloads.**
- **Manual selection of ingredients or unload points in the execution of loading and unloading programs.**
- **Programming alarms in manual mode.**
- **With Data Transfer connected, it allows displaying the content.**

5 

The "ZERO" key allows:

- **On start-up, displaying the software revision.**
- **In manual mode, temporarily resetting the weight to perform partial weighing.**
- **During the execution of loading and unloading programs, resetting the ingredient or unload value, recalling the programmed value.**

6 

The "TOTAL" key allows recalling the total weight value (the actual contents of the carriage):

- **During manual mode.**
- **During the execution of loading programs.**
- **During the execution of unloading programs.**

7 

The "RESET" key allows erasing all the choices made in each working mode.

8 

The "ENTER" key allows confirming all the choices made in each working mode.

9 

The “VIDEO“ key allows changing the color of the video display screen:

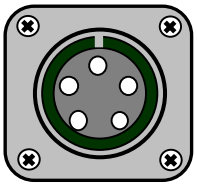
- **Screen background white and black numerals.**
- **Screen background black and white numerals.**
- **If held pressed for 5 seconds, allows modifying the contrast.**

10

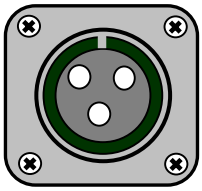
The backlit, 240 x 128-dot graphic “SCREEN“ allows:
Displaying weight with 42 mm characters.
Displaying local language messages on 2 lines of 30 characters each.

11 

The “ON-OFF” switch allows turning the device on and off.

12 

The “SENSOR” connector allows the connecting the sensor extension cable coming from the junction box to the device. The sensor connector can be identified by the label with the word “SENSORS” written on it.

13 

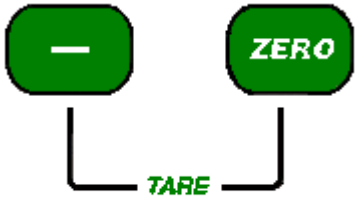
The “POWER AND ALARMS” connector allows connecting the power and alarms cable to the device. The power and alarms connector can be identified by the label with the word “POWER” written on it.

COMBINED COMMANDS

A.

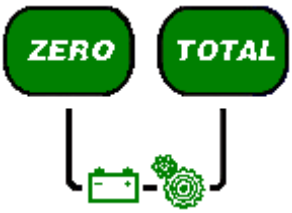
In manual mode, the " - " and " + " keys pressed simultaneously will select the setting of an alarm value.

B.



The " - " and "ZERO" keys pressed simultaneously allow storing the tare weight.

C.



The "ZERO" and "TOTAL" keys pressed simultaneously:

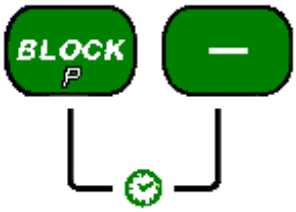
- **During start-up allow entering the PASSWORD menu.**
- **While displaying total weight, allow displaying the battery voltage value.**

D.

The "TOTAL" and "ENTER" keys:

- **Pressed simultaneously while displaying total weight, allow entering the "CUSTOMER CODE."**

E.



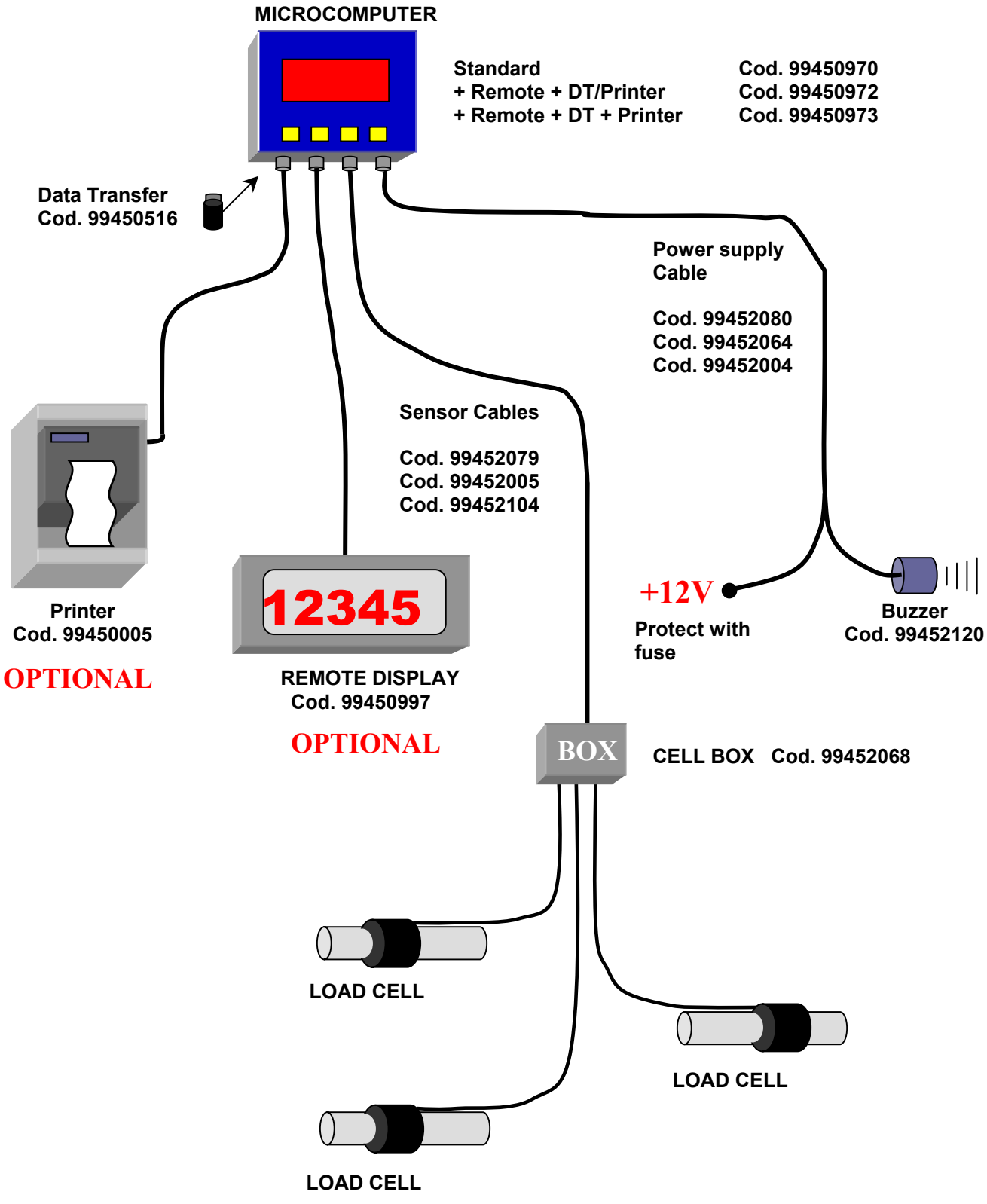
The "BLOCK-P" and "MINUS" key:

- **Pressed simultaneously during start-up allow changing the date and time**
- **Pressed simultaneously while in manual mode, allow displaying the date and time.**

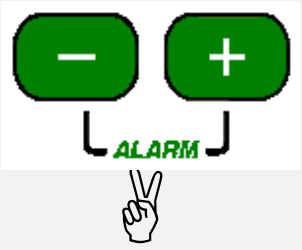
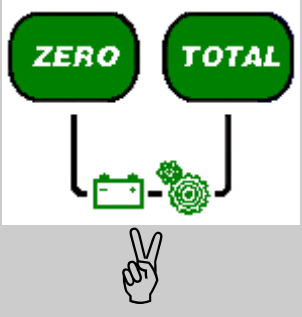
3 TECHNICAL DATA

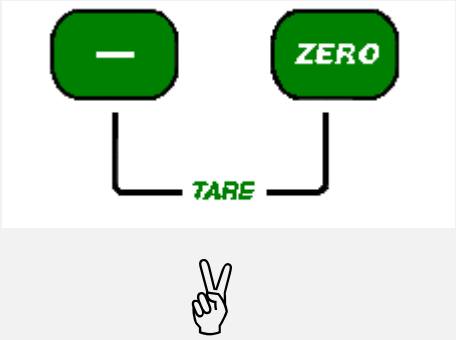
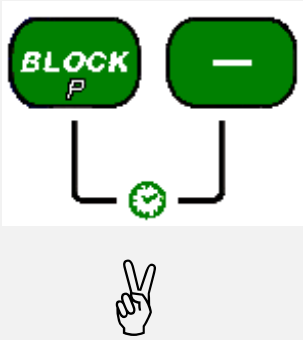
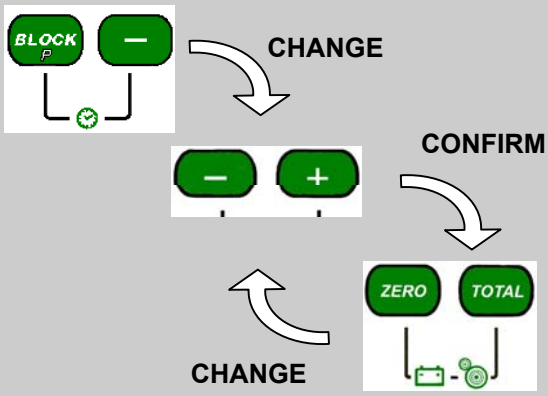
Range of Measurement (f.s.):	0 – 19,999 kg
Resolution:	1, 2, 5, 10 kg
Precision:	< +/- 0.015 % f.s.
Working Temperature:	-20 – +60° C
Power Supply Voltage:	9 - 18 Vdc
Dimensions (mm):	220 x 200 x 100
Weight (gr.):	2,500
Housing:	IP65 protection Polyamide (PA) 30% fibre glass, noise shielded
Display:	Backlit, 240 x 128 dot graphic weight display with 42-mm characters and message display on 2 lines of 30 characters each
Display Visibility:	15 meters and more

4 CONNECTION DIAGRAM



5 OPERATION IN MANUAL MODE

FUNCTION	*BUTTON*
TURNING ON/OFF	
TOTAL WEIGHTS **DISPLAYING THE TOTAL WEIGHT** **(Automatically selected on start-up and recallable at any time).**	
PARTIAL WEIGHTS **PARTIAL WEIGHTS STARTING FROM 0 kg** **By pressing the ZERO button, you are given the option of making intermediate weighings starting from a temporary tare (partial weight = 0 kg) until reaching the desired kgs. After weighing, press TOTAL to display the total weight.**	
ALARM-CONTROLLED WEIGHING **Pressing them both simultaneously selects the alarm setting menu** **The desired value that will be used to control the partial weighing is programmed with the PLUS and MINUS keys (please refer to the previous point for partial weighing).** **The numerical value displayed corresponds to the value of the alarm programmed. Once the alarm is set, press ZERO to perform the weighing.**	
BATTERY CHARGE **Holding down both keys simultaneously displays the battery charge.**	

FUNCTION	BUTTON
STORING THE TARE WEIGHT **Press and hold down the MINUS and ZERO keys together simultaneously for 5 seconds.** **Release the keys when the display shows the message, "TARE STORED."**	
DISPLAYING THE: **Date and Time** **Press and hold the BLOCK-P and MINUS keys simultaneously**	
SETTING THE DATE AND TIME **Press the BLOCK-P & MINUS (-) keys together immediately after start-up (hold pressed for at least 7 seconds).** **In sequence, the display will show HOURS (0 - 23), MINUTES (0 - 59), DAY (1 -31), MONTH (1 – 12), YEAR (1980 – 2080).** **Each parameter is set with the PLUS (+) and MINUS (-) keys.** **The values set are confirmed by pressing the TOTAL & ZERO keys together.** **At the end of programming the device automatically returns tc normal functioning.**	
ADJUSTING THE DISPLAY CONTRAST **The display contrast (light or dark) is changed by pressing the VIDEO button.** **Holding it pressed for 4 seconds provides access to the CONTRAST ADJUSTMENT screen.** - **The display contrast is adjusted with the PLUS and MINUS keys** - **ENTER confirms the changes and EXITS** - **RESET EXITS without confirming**	

6 ACCESSORIES

With PRINTER connected:

FUNCTION	*BUTTON*
PRINTOUTS • In manual mode it is possible to print the current weight value (TOTAL and/or PARTIAL) with date and time by pressing the BLOCK-P key. • While executing a programmed load or unload, the RECIPE or UNLOAD program used will be automatically printed at the end of the process. • The LOAD and UNLOAD programs stored in the weighing system can be printed by pressing the BLOCK-P key at the end of each programming operation or at the end of a simple display of the stored program. • When you find yourself in COMPONENT ACCUMULATION you can print it by pressing the BLOCK-P key.	

With DATA TRANSFER connected:

FUNCTION	*BUTTON*
FREE MEMORY ON DATA TRANSFER By pressing the “PLUS” key with DATA TRANSFER connected, it is possible to display the memory bytes free and the relative percentage.	

7 PROGRAMMED LOADING OPERATIONS

7.1 PROGRAMMING RECIPES

Using the … Select … key position on "LOAD PROGRAMMING"

confirm the selection by pressing … Enter

using the … − + … keys choose the recipe to program (or change) – 99 recipes -

confirm the selection by pressing … Enter

using the … − + … keys insert the "NUMBER OF COWS"

confirm by pressing … Enter

N.B.: with "NUMBER OF COWS = 0" the programming for TOTALS (in kg)

Using the … − + … keys insert the weight relative to the indicated ingredient

confirm by pressing … Enter

REPEAT for all 24 ingredients

After the last ingredient is programmed, the TOTAL RECIPE is displayed

confirm by pressing … Enter

If the NUMBER OF COWS ≠ 0

Finally, the TOTAL PROGRAMMED is displayed

(If a printer is available) it is possible to print the recipe by pressing the … 

… key

To return to the SELECT menu, press the key 2 times … 

7.2 PERFORM LOADING

Using the … 

… key, position on "PERFORM LOADING"

confirm the choice by pressing … 

Using the … 
… select the recipe to execute

confirm by pressing … 

Using the … 
… keys set the num. of tickets to print …

confirm selection by pressing … 

With printer connected and PASSWORD 19 Rep. prints = Yes

If the recipe is programmed for cow

Using the … 
… keys it is possible to change the "NUMBER OF COWS"

confirm by pressing … 

If the recipe is programmed for TOTALS it is possible to modify the TOTAL TO UNLOAD using the PLUS and MINUS keys

TOTAL TO UNLOAD … is displayed

confirm by pressing … 

you can move to the ingredient that you wish to load using the … 

…keys

After loading the ingredients is finished the (actual) TOTAL LOADED is displayed

Weighing returns to MANUAL mode

N.B.

A. If, during the performance of a load, you wish to make a suspension (stop weighing) press the … 

key. To resume execution, press the same key again.

B. If, during the performance of a load, you wish to restore the programmed value, relative to the ingredient to be loaded displayed at that moment, press the … 

… key (for at least 5 seconds)

C. – Moving to the next, or previous, ingredient to load by using the PLUS and MINUS keys does not store any load.

- You can automatically load the quantity indicated on the screen by waiting for the automatic movement to the next.

- I can load only a part of the quantity indicated on the screen, confirming the partial load with the … 

… key (in this case the load was stored and, therefore, counted)

8 PROGRAMMED UNLOADING OPERATIONS

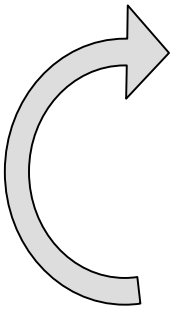
8.1 PROGRAMMING UNLOADING

Using the … Select … key position on "**PROGRAMMING THE UNLOADING GROUP**"

confirm by pressing … Enter

Use the … − + … keys to select the unload to program (or change)

confirm the selection by pressing … Enter



Using the … − + … keys insert the unload (kg) relative to the point indicated

confirm by pressing … Enter

REPEAT for all **20** unloading points

After the last ingredient is programmed, the **TOTAL PROGRAMMED** is displayed

(If a printer is available) it is possible to print the unload program by pressing … BLOCK P

To return to the SELECT menu, press the … Reset … key 2 times

8.2 PERFORMING UNLOADING

Using the … Select … key, position on "EXECUTE GROUP UNLOADING"

confirm the selection by pressing … Enter

using the … − + … keys select the unload to perform – from 1 to 12 –

confirm the selection by pressing … Enter

Using the … − + … keys, set the num. of tickets to print …

confirm the selection by pressing … Enter

} With printer connected and PASSWORD 19 Rep. prints = Yes

the TOTAL to UNLOAD is displayed confirm by pressing … Enter

you can use in correspondence with the desired unload point using the … − + … keys

When unloading is finished, the (actual) TOTAL UNLOADED is displayed

Weighing returns to MANUAL mode

N.B.

A. If, during the performance of an unload, you wish to make a suspension (stop weighing) press the … 

… key. To resume execution, press the same key again.

B. If, during the performance of an unload, you wish to restore the programmed value, relative to the unload point displayed at that moment, press the … 

… key (for at least 5 seconds)

C. – Moving to the next, or previous, unload point using the PLUS and MINUS keys does not store any unload.

- You can entirely unload the quantity shown on the screen by waiting for the automatic movement to the next point.

- You can unload only a part of the quantity indicated on the screen by confirming the partial unload with the ... 

… key (in this case the unload is stored and, therefore, counted)

9 TIMER allows an accurate mixing of the material at the end of loading

Using the … 

.. position on “MIXING TIMER”

confirm the selection by pressing… 

using the … 

… keys set the minutes desired – from 1 to 60 – (they are stored)

confirm the selection by pressing … 

At this point the countdown begins.

The expiration of the time is signaled by an intermittent audible alarm at the beginning that becomes continuous when the time has expired.

It is possible to exit from the TIMER at any moment by pressing … 

10 ACCUMULATING INGREDIENTS

displays consumption by ingredient from date X to date Y

Using the … 

… key, position on "**Accumulate ingredients**"

confirm the selection by pressing … 

all of the accumulations of the individual ingredients are displayed from a date X to a date Y

It is possible to reset the content of the accumulators with the … 

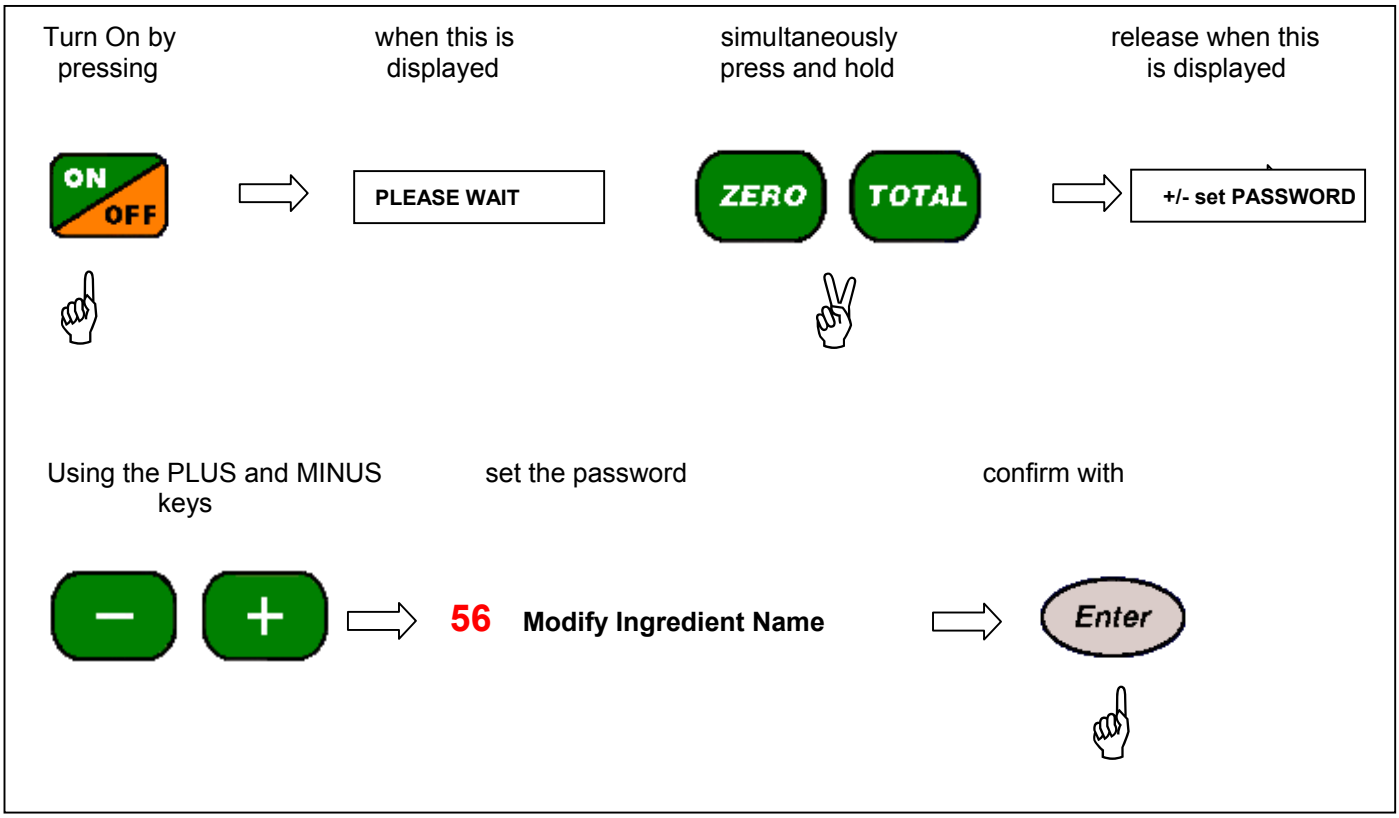
… key …

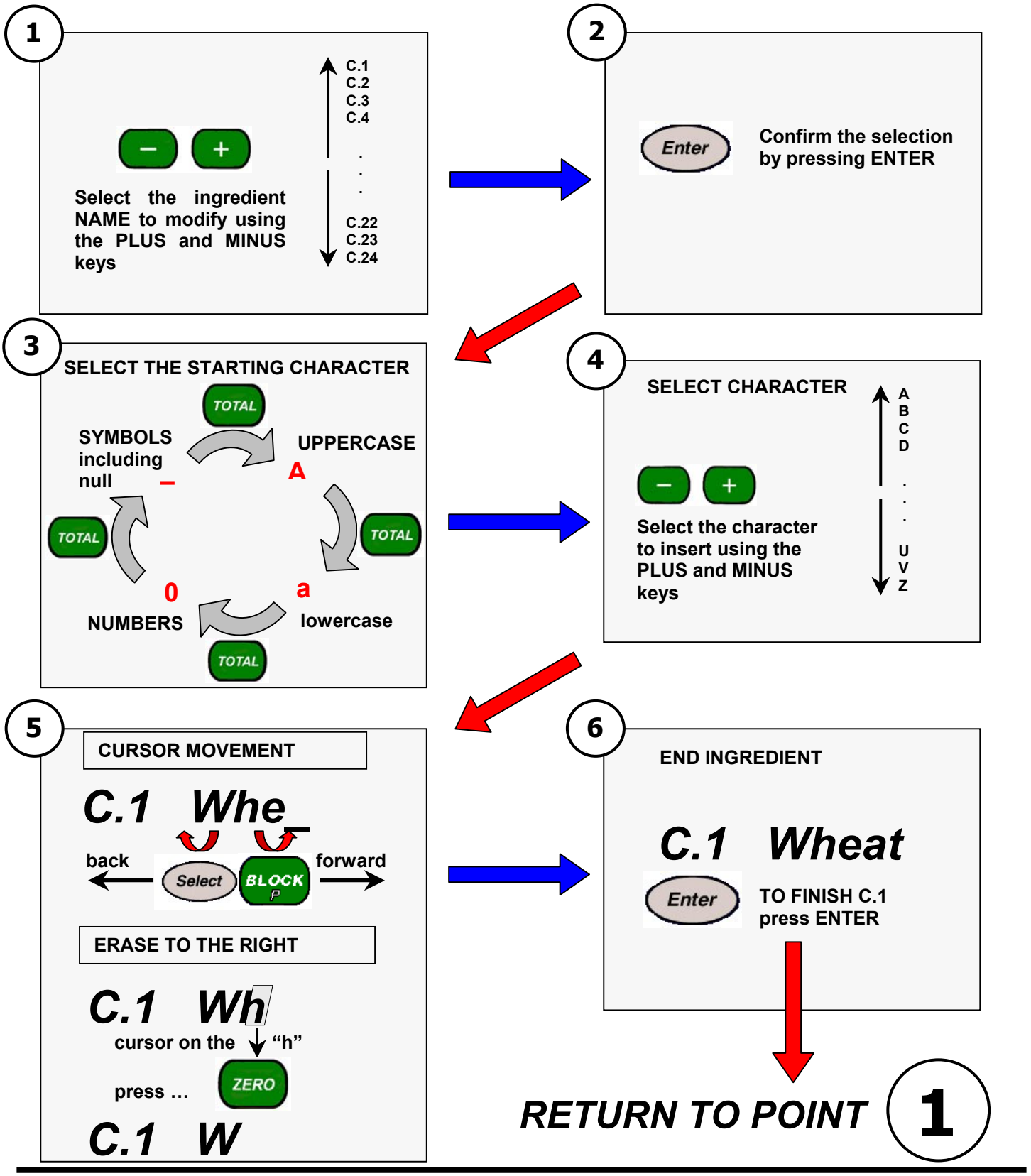
and confirming by simultaneously pressing the … 

… keys together

It is possible to exit from ACCUMULATING INGREDIENTS at any time by pressing … 

11 MODIFYING INGREDIENT NAMES




1
C.1
C.2
C.3
C.4
C.22
C.23
C.24
Select the ingredient NAME to modify using the PLUS and MINUS keys
2
Enter
Confirm the selection by pressing ENTER
3
SELECT THE STARTING CHARACTER
TOTAL
SYMBOLS including null
UPPERCASE
A
NUMBERS
0
lowercase
a
4
SELECT CHARACTER
A
B
C
D
U
V
Z
Select the character to insert using the PLUS and MINUS keys
5
CURSOR MOVEMENT
C.1 Whe
back
Select
BLOCK
forward
ERASE TO THE RIGHT
C.1 Wh
cursor on the "h"
press ...
ZERO
C.1 W
6
END INGREDIENT
C.1 Wheat
Enter
TO FINISH C.1 press ENTER
RETURN TO POINT 1
TO EXIT PRESS
Reset

12 OPTIONAL ACCESSORIES

12.1 PRINTER

General Characteristics

The printer is compact and can be connected to all microcomputers.

- **The customer's heading can be defined: name, address, legal corporate form, etc.**
- **IP65 watertight metal housing for use in critical environments.**
- **Low maintenance cost.**
- **Working temperature from 0 to 50° C**
- **Thermal printing paper in roll, width 57,5 mm, max. diameter 50 mm**
- **Thermal impact print module**
- **Conforms to CEE directives**

Method of Use

- **In manual working mode it is possible to print the current weight value (TOTAL and/or PARTIAL) with date and time by pressing the BLOCK-P key.**
- **While executing a load or unload program, the RECIPE or UNLOAD program used will be automatically printed at the end of the process.**
- **The LOAD and UNLOAD programs stored in the weighing system can be printed by pressing the BLOCK-P key at the end of each programming operation or at the end of a simple display of the stored program.**
- **To manually advance the paper, press the red key located directly on the printer panel.**

Automatic Recognition of the Printer's Presence

- **The printer is automatically active immediately after starting the weighing system (if provided).**
- **If the printer is not correctly recognized for any reason, the message PRINTER TEST appears on the display of the weighing system. The message remains until the problem is resolved.**
- **Check the possible causes of the problem which normally can be attributed to the cable or the power supply voltage. If the problem persists, contact the Service Department.**
- **To continue by excluding the printer, press the PLUS key for five seconds; the weighing system will function normally, ignoring the connection with the printer.**
- **If the printer is not connected to the microcomputer, the relative initial TESTS are ignored and the weighing system starts up normally.**

Setting the Time and Date

To set the weighing system time and date, press the BLOCK-P & MINUS (-) keys together immediately after turning it on.
In sequence, the screen will display HOURS (0 – 23), MINUTES (0 – 59), DAY (1 –31), MONTH (1 – 12), YEAR (1980 - 2080).
Each parameter is set using the PLUS (+) and MINUS (-) keys. The set value is confirmed by pressing the TOTAL & ZERO keys together.
At the end of programming, the device automatically passes to normal functioning mode.

Displaying the Time and Date

To display the time and date, press the BLOCK-P & MINUS (-) keys together: the current time and date, that will be used for printing, will be displayed.

12.2 REMOTE DISPLAY

A Large-Numeral Weight Display Connectable to All Microcomputers.

- **Dimensions 245 x 125 x 50**
- **High efficiency, red LED display, 60 mm high.**
- **Display visibility over 20 meters.**
- **Read weights up to 19,999 Kg.**
- **IP65 Watertight metal housing immune to radio frequency disturbance.**
- **Simple, direct connection to the microcomputer.**
  All data displayed on the weighing system display are repeated on the REMOTE display.

12.3 ACTIV CUTTER Cod. 99400316

Programmer for INPUT-OUTPUT KNIVES

The device consists of an electronic device that controls the mechanical knives for improved material preparation.
The working of the knives is completely programmable using 3 TIMERS.

T_{tot} = total working time for knives
T_{in} = insertion time for knives
T_{out} = disinsertion time for knives

The knives can also be worked manually using the keys provided.

12.4 DATA TRANSFER

Transferring Data on CARTRIDGE from Microcomputer to Personal-Computer and Vice Versa

With Data Transfer installed on your weighing system, it is possible to store all the work phases to check and analyze, optimizing consumption, times and costs

- **6 Months of uninterrupted data acquisition**
- **Programming of 99 Recipes of 24 Ingredients**
- **Immediate installation on the entire series of Microcomputers**

12.5 REMOTE CONTROL (Radio Frequency).

Remote control for using the microcomputer at a distance.

13 TROUBLESHOOTING

13.1 Weight Display Unstable

- This is normally caused by a cable or load cell that is not working properly.
- To identify it, it is necessary to connect the load cells individually; this operation is very simple if installation has been done using the cell connection BOX since you only need to open it and disconnect all of the load cells except one (and, obviously, the cable to the microcomputer is always left connected).
- Test the connected load cell (by loading it with a sample weight) and verifying that the weight displayed on the microcomputer is approximately the sample weight multiplied by the number of cells used in the system. For example, if the sample weight is 80 Kg (the weight of a person) and the number of load cells used in the system is 4, the displayed value must be about 320 kg (remember to reset the weight reading with the ZERO key before each test). This test is very important for verifying the stability of the weight reading coming from the load cell; the value of the weight is not relevant.
- The test described above is repeated for all the load cells so as to identify any that are defective (the defective one will turn out to be unstable or will not read the weight).
- Provide for replacing the defective load cell. If none turns out to be defective (the weight displayed is unstable with all of the load cells) it is, then, indispensable to carefully check the state of the connection BOX and the cable that goes from the BOX to the microcomputer.
- If even this check reveals no problems, we recommend checking the installation of the load cells from a mechanical point of view, especially if the installation is on a mobile system (possible effects caused by moving parts such as drive shafts, brakes, etc.).
- If even the last check does not detect problems, send the manufacturer (based on our years of installation experience, we wish to inform you that it is very unlikely that the microcomputer is the source of the problem. Sometimes the customer replaces the microcomputer because it is a simple operation, but it is hardly ever the cause of the problem).

13.2 Motion Alarm Goes Off

The screen displays the word “MOTION.”

- **Same checks as described in point "1."**

13.3 Microcomputer Doesn’t Turn On

- **Carefully check the connection cable that goes from the microcomputer to the power supply (battery, power supply, etc.).**
- **Verify the efficiency of the power supply (Minimum 9 Volts/0.5 A).**
- **If problems persist, send the microcomputer to the manufacturer.**

13.4 Unable to Store the Tare Weight

- **Same checks as described in point "1."**

13.5 On Start-up the Wait Message Remains Displayed for a Long Time

- **Same checks as described in point "1."**

13.6 Low Battery Alarm Present

The buzzer sounds and the display shows the words “LOW BATT” with the relative power value.

- **Turn the microcomputer off and on to verify that the problem was not caused by an interruption of the power supply.**
- **If the problem persists, perform the checks described in point "3."**

13.7 OVERRANGE Alarm

The display shows many vertical lines and the word “OVERRANGE.”

- **The weighing microcomputer is unable to read the signal from the load cells because they are out of scale. The problem is probably caused by the cell cable (the cable that connects the connection BOX to the microcomputer). If, after checking the cable, the problem persists, perform the checks described in point “1.”**

14 WARRANTY

For a period of 12 months from the date of delivery, the supplier guarantees the quality of the materials used, the perfect construction and the regular functioning of equipment that it manufactured, bearing its factory mark and serial number. During the warranty period, the supplier undertakes to see to the repair or replacement, F.O.B. the supplier's headquarters, of parts due to poor materials or construction defects, so long as said parts are delivered F.O.B. the supplier's headquarters.
Deficiencies or defects due to incorrect use of the equipment, inadequate maintenance, modifications made without authorization from the supplier and normal wear are excluded from the warranty.
The supplier excludes any responsibility or compensation for direct or indirect damage to persons, objects or production, even as a consequence of defective functioning of the equipment supplied or of defects of materials or construction.

NOTES: