

999-E



## CONGRATULATION ON YOUR CHOICE

We are pleased to offer you the finest technology in grain quality control. Your moisture meter was submitted through an extensive quality control process to ensure its reliability and accurate results.

Thank you for choosing this instrument.

Please unpack your instrument carefully and if you find any damage or noncompliance, you should put it back into its original package and contact your sales representative for replacement.

To take full advantage of the features and technology in this equipment, as well as, for better performance during operations, please read this manual.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

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## GENERAL INFORMATION

The moisture meter you just acquired is worldwide renowned and a benchmark for moisture readings for grain and by-products in United States, Canada and Latin America.

Unique system and manufactured to avoid and not allow results manipulation.

The commodity charts of the equipment were certified by the NTEP (National Type Evaluation Program), a program recognized by the USDA as a standards regulator for commercial transactions. These charts are stored in the software of each equipment and easily located by name and product. The moisture reading results are extremely reliable with a great repeatability.

Developed for quick and accurate results, your moisture meter has an user-friendly interface, easy to use with a full color touchscreen, which makes the user experience easy and intuitive.

With a resistant design, your moisture tester is ready for intense use for a production line and in processes such as: drying, inspection and handling, receiving and processing the most varied types of grains products and by-products.

The equipment is available in the following languages: Portuguese, English, Spanish, Italian, German and French.

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# SAFETY INFORMATION

## READ THE USER GUIDE BEFORE USING THE EQUIPMENT

- • Keep it for future reference.

## DANGER



- Do not install this equipment exposed to weather conditions.
- Do not repair or replace any parts.
- Do not break the warranty seal or open the equipment. This action may damage the equipment; if the warranty seal is damaged the warranty will be terminated.
- If you have any questions or problems, call our Customer Support.

## CAUTION



Plug the power supply into a 100-240 VAC, 50-60Hz and 10A.

- Do not use extensions or connectors; it may cause overloading in the electrical installation.
- Make sure the outlet has the right voltage and frequency for the proper equipment operation.



Remove foreign substances, such as dust or water from the contacts points using a dry cloth.

- Disconnect the plug and clean it with a dry cloth.



Connect the plug to the outlet so that the cord extends toward the floor.

- Be sure the power cord is not twisted, kinked or crimped to prevent possible internal wire damage and electrical shock and/or fire.
- Do not hang or drape the power cord over or on top of the equipment.
- Do not pull or bend the power cord with excessive strength.
- Do not twist or tie the power cord.



Do not touch the charger with wet hands.

- This may cause electric shock.



Always unplug the product holding the charger firmly and pulling out from the outlet.

- Damage to the power cord may cause electric shock or fire.



Do not modify the charger supplied with the equipment.



Do not allow liquids to come into contact with electrical parts of the equipment.

Use care when handling the equipment.

- Any misuse, such as dropping, tossing or throwing, can potentially damage the load cell.

During the measurement, do not move the equipment.



Avoid using cell phone, radio or other radio-frequency products near the equipment during the measurement. It may affect the accuracy of the reading.

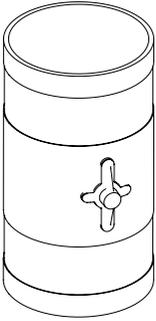


Do not use sharp objects to interact with the touchscreen display.

- Using sharp objects can damage the display, it is considered misuse, and the warranty will be terminated.
- It is recommended to use finger touch or non-tipped objects on the display.
- The display recognizes the press of a finger even with gloves.
- The display does not support multi-touch.

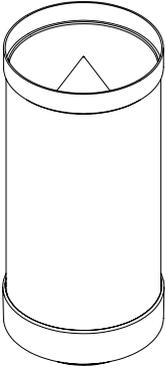
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## MAIN COMPONENTS



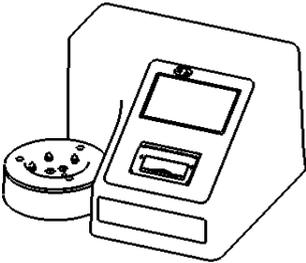
### **DUMP CELL**

It is where the operator pours the sample in. A mechanism made of two wings, it holds/releases the sample into the grain cell.



### **GRAIN CELL**

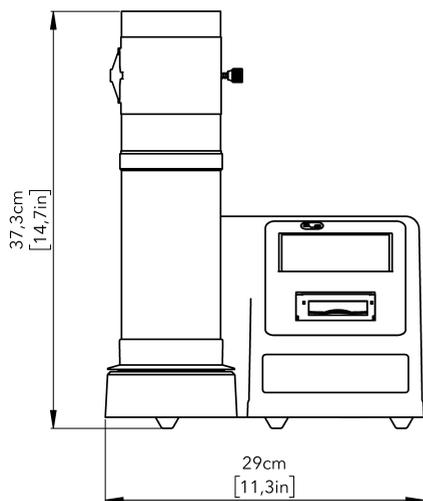
After receiving the sample from the dump cell, the grain cell is responsible for measuring the sample moisture and temperature. The grain cell shape compensates the sample compaction and superficial moisture.



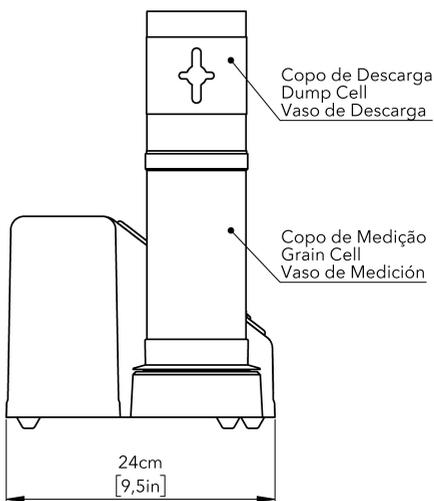
### **MOISTURE METER**

4.3" Touchscreen display, built-in thermal printer, user-friendly and intuitive interface.

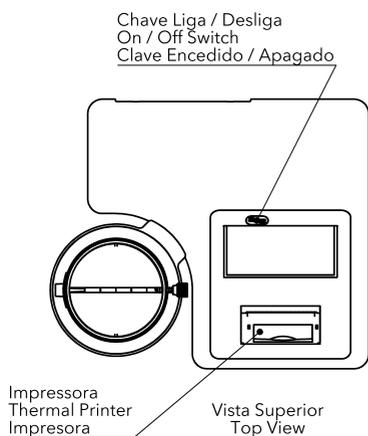
# KNOWING YOUR MOISTURE METER



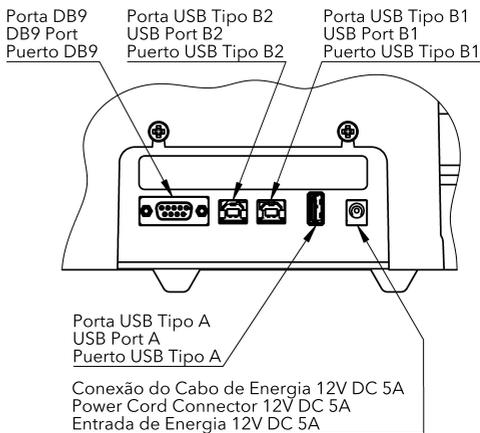
Vista Frontal  
Front View



Vista Lateral  
Side View



Vista Superior  
Top View



## USB Port A

Shall only be used to record your results to an external flash drive.

## USB PORT B 1

Technical assistance use, only.

## USB PORT B 2 and DB9 Port

RS-232 output. Connect to your computer to access it. See page 11 for further information.

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## TECHNICAL SPECIFICATIONS

Charger Power Source	From 100 to 240 VCA (50 to 60 Hz )
Equipment Power Source	12 VCC - 5A
Operating temperature Range	From 10 °C to 40 °C From 50 °F to 104 °F
Grain Temperature Range	From -20 °C to 70 °C From -4 °F to 158 °F
Temperature difference between equipment and sample	±10 °C ±18 °F
Equipment heating and stabilization time	5 minutes
Equipment dimension (Width x Length x Height)	29cm x 24cm x 37,3cm 11.3 in x 9.5 in x 14.7 in
Approximate Weight (without package)	3,6 kg 7.9 pounds

## SETUP

### UNPACKING THE EQUIPMENT

Carefully, unpack your moisture meter and in case of damaged parts or malfunction, return the equipment in the original package. Please, contact your customer support.

### PACKAGE CONTENTS

- 1 Moisture Meter
- 1 Dump Cell
- 1 Grain Cell
- 1 Power Cord
- 1 AC/DC Adapter 12V 5A
- 1 User Guide
- 1 Warranty term
- 1 Carrying Case (Optional)

### INSTALLATION GUIDANCE

- Place the moisture tester on a flat, firm and vibration free surface.
- Connect the power cord on the outlet.
- Connect the power cord plug in the equipment.
- Before starts, place the grain cell and connect with the four pins on the moisture meter.

## SERIAL COMMUNICATION

The instrument is equipped with an internal RS-232 module. To connect it to your PC, please use an USB cable (see figure below). It is necessary to install the module driver, which you can find at the website (see below).

To install the module serial driver:

- Access and download the driver at [www.motomco.com.br/downloads](http://www.motomco.com.br/downloads)
- Follow the instruction on the computer screen after you connect the cable.

Serial Port Settings:

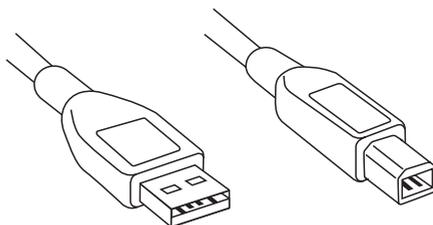
Baud rate = 9600

Data Bits = 8

Parity = none

Stop bit = 1

Flow control = none



## OUTPUT RECEIPT SAMPLE

```

CORN;;Moisture:12.8%;
|-----|
| CORN: 12.8%
| Temperature: 24.1°C
| TW (Reference): 78.7 kg/hL
| Date and time:16/11/2016 - 10:50
| Chart expiration: 25/08/2018
| Measuring ID: SIMT-00000-71
| Serial Number: SIMT-00000
| Chart SHA1:
| 7ccc6c437ed1acc46a96f70541cb7c57481114c
| Lot:
| License Plate:
| Dial def.: 24.34
| Dial corr.: 20.64
|-----|
  
```

```

VAL
CORN;;12.8%;7ccc6c437ed1acc46a96f70541cb7c57481114c;
SIMT-00000-71;SIMT-00000;16/11/2016 - 10:50;25/08/2018;
257.773;10831.000;7949.000;24.100;NO
ASS
dTTsOdJOBxqrlwhDL6pa72+uQfGZHMhUIYx9ICg+zS94jCjO/vA/7lQyK3YtCcnfQqM8y6HKrQMMtFEkY9/WQR7pyv1cEHfD+X3Zsk
eAN/oltf9W3AoE0m0PVg/TS/5x+IXkQq/hlt+J9gia+UJ15GYsJC5Nbt6jhPtXaXVCUSMhatDoAQQL9LZZfRvgn+Wytivm5xvORSAdXs5
RxH6rNq4p4C55BrLJg838Ys7f/0/JSKv3HS7/QjgplgqtXQ+pfo4HQEJkSjWaYPo4vmm0kGF9TAIVDRg6A4bNi1LjAQzJJP+MK2js6EIl
7PJvYrOoOHAYz1PHkVtUvezxJHA==
KEY
5VjoTLnNBncY+f/8RiSdsJaKzd+rPmFFoxX6xZRaBPhivl+vl6SKVEvFaT5nQWTqtPdDqL3QZJf/9lY7G/kJi4QqHKYl6BEb+2/gWDErI5
EKenFQkGCiPbi+wR1e0lmo5HtbgudKSs/eIOBpdelybusG2v+Ten4THAUH3tZx5SkIZY1u2ZpxPMviJ2qlzs7ZecM44sCL5OKC/Dm7
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FtCgRwmNlnLmdAZDYER5govJsrQ==
  
```

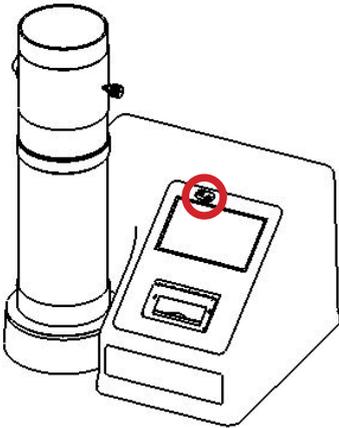
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## FIRST TIME START UP

When you turn on the equipment for the first time, you can select the preferences. This will be the only time you need to enter this information, as follows:

1. **Choose your language**
2. **User Name**
3. **Company Name**
4. **Commodity Selection**
5. **Acceptance of the use terms**
6. **Self-Test**
7. **Grain Chart Calibration Selection**

If needed the items 1, 4 and 7 can easily be changed by accessing the **SETTINGS** option. In addition, the item 2 can be changed on the second time you turn on the equipment.



### STARTUP PROCESS

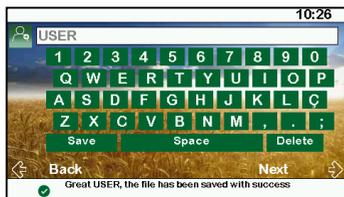
- Make sure that the equipment is installed in accordance with this document.
- Place the grain cell on the equipment.
- Press and hold the **ON/OFF** button for 3 seconds.
- You will hear two beeps.



## CHOOSE YOUR LANGUAGE

Turn on the equipment. At the very first power up, it asks the user to choose the desired language.

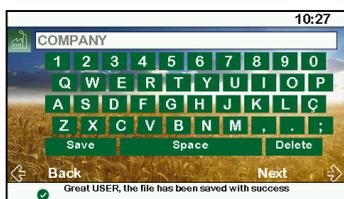
- Touch in the language and the option will be highlighted in yellow.
- Press **NEXT** to set as system language.



## USER NAME

- Type the user name.
- Press **SAVE**.
- Press **NEXT**.

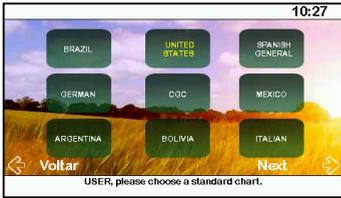
In the event of typo, press **DELETE** to erase the characters.



## COMPANY NAME

- Type the company name.
- Press **SAVE**.
- Check the name and press **NEXT**.
- This info will be printed on the ticket and will be sent by the DB9/USB port.

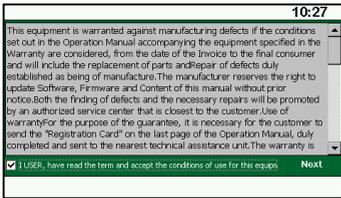
It is important to correctly inform the name of the company. Only the authorized technical assistance can correct or alter the name.



## CHARTS STANDARD SELECTION

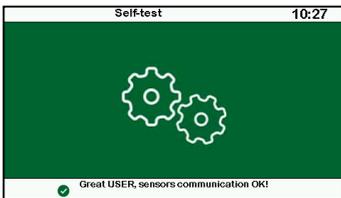
To Select the charts standard:

- Tap your choice. The selected option will be highlighted in yellow.
- Press **NEXT** to set it.



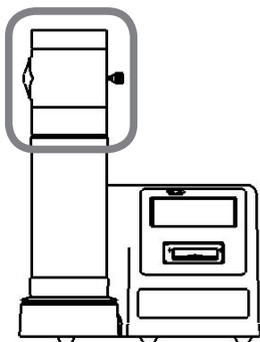
## TERMS OF USE

- Navigate the text using the side scroll bar.
- Press the check box to accept the terms.
- Press **NEXT**.



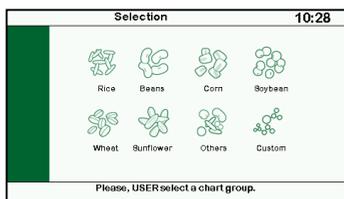
## SELF TEST

This step checks all the components and parameters of the software, for a proper operation.



If the equipment requires, follow this steps:

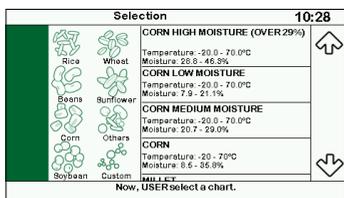
- Place the **empty dump cell** on the **grain cell**.
- Press **OK**.
- Remove the **dump cell**.
- Press **OK**.



## CHART SELECTION

Select the Grain Chart Calibration.

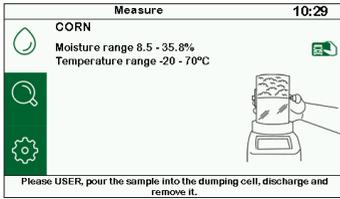
- Choose the commodity by pressing on the grain icon.
- Select the Grain chart pressing on the name of the chart.



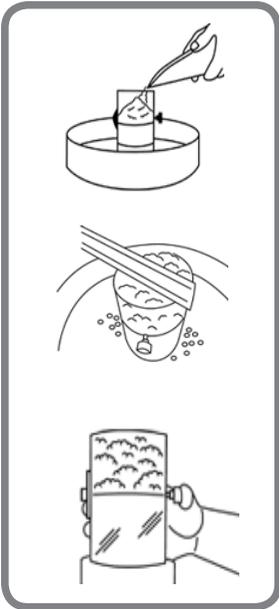
This completes the startup process and the equipment is ready for use.

The device returns to the **HOME** screen.

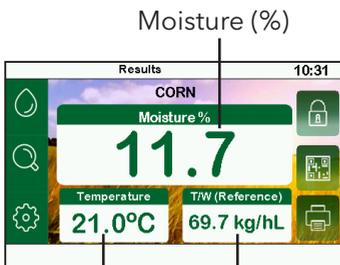
# QUICK GUIDE



1. Make sure the equipment is on a flat, firm and vibration free surface.
2. Press the power button on the equipment for 3 seconds.



3. Select the user.
4. Place the dump cell inside a proper container like a tray, and overfill it with the sample you want to measure the moisture. With a ruler or straight edge, remove the excess. The level of the grain sample in the dump cell must be done in a constant and controlled way.
5. Place the dump cell on top of the grain cell.



6. Dump the sample into the grain cell and remove the dump cell.
7. The moisture result appears on the screen. If needed or desired, remove the sample and repeat the process from step 4.

Temperature

TW (for reference only)

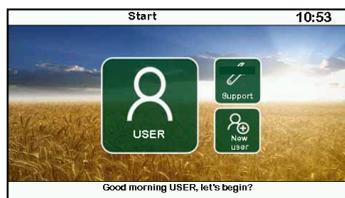
## DAILY USE

With only two steps, the second time your turn the equipment on, will be faster and shorter:

1. **Select the user**
2. **Self-Test**

### TURNING THE EQUIPMENT ON

Make sure that the equipment is installed in accordance with this document. Press and hold the **ON/OFF** button for 3 seconds, you will hear two beeps.



### SELECTING THE USER

This is the first screen of the equipment.

- Press  to use the same user name..
- Press  to replace the user name.
- This button  is only for technician access.



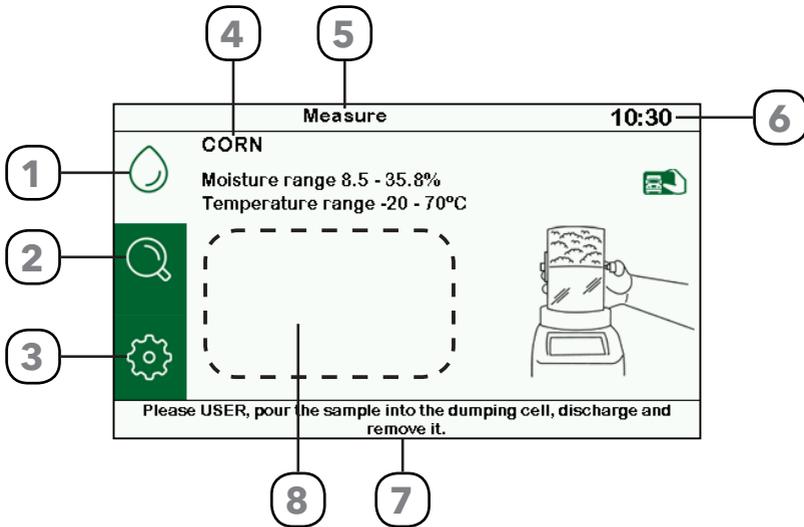
The machine stores only the last user name.



### SELF-TEST

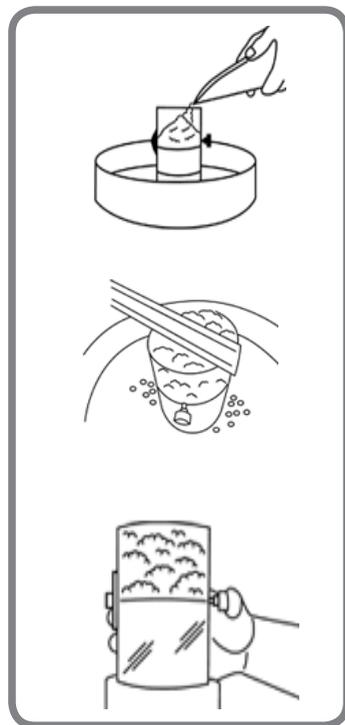
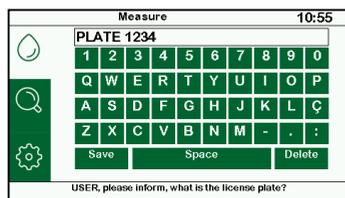
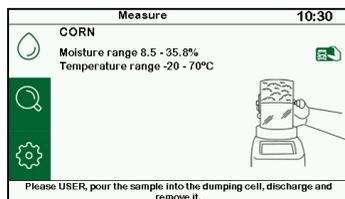
- If the equipment requires it, follow the instructions on page 15 of this manual.
- If an error occurs, please, restart the process, pressing the **TRY AGAIN** button.

# HOME SCREEN



- 1 This button will take the user to the **HOME SCREEN**. This option will do the moisture reading. For more information, check page 19.
- 2 **TOP 5** quick access. You can choose among the five last used grain charts. For more information, check page 21.
- 3 **SETTINGS**. You can access all the equipment configuration. For more information, check page 22.
- 4 Grain Chart Name.
- 5 Screen title.
- 6 Equipment time. Military time format (24h). For more information, check page 22.
- 7 Equipment message to the user.
- 8 When you choose the average reading, all the partial results will be displayed here.

## STARTING



This is the home screen.

If needed, you can add the sample number or name and license plate by pressing the icon .

- Type the sample number and press **NEXT**.
- Type the license plate and press **SAVE**.
- You will notice the icon  will disappear, indicating that the information was saved.

For each measure it is necessary to insert the info again. To remove or change, leave the **HOME** screen by clicking ,  or .

## SAMPLE ANALYSIS

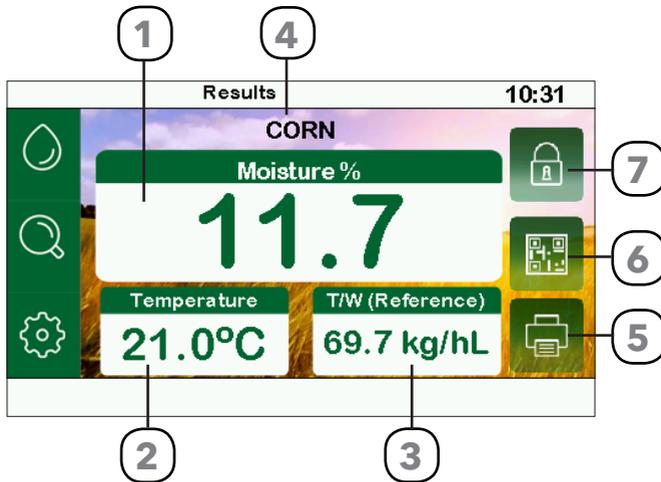
Follow this steps to do the moisture reading:

- Place the dump cell in an appropriate container, like a tray.
- Fill the dump cell with the grain sample, until overflow.
- With a straight edge, like a ruler, remove the excess.
- Place the dump cell on top of the grain cell.
- Dump the sample into the grain cell.
- Immediately remove the empty dump cell.

After the procedure, the equipment displays the reading on the **RESULT SCREEN**.

## RESULT SCREEN

The moisture results shows on the screen. To repeat the process, remove the sample from the grain cell. Automatically, the equipment returns to the **HOME SCREEN**. If a flash drive is connected, the result will be saved in his memory, automatically.



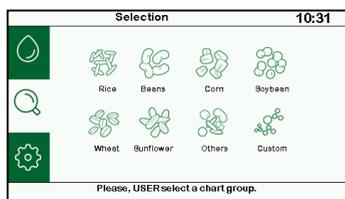
- ① **Moisture** content inside the grain sample.
- ② **Temperature** of the Grain Sample.
- ③ **Grain Sample Weight** (for reference only).
- ④ **Name** of the Grain Chart.
- ⑤ **Print** your result.
- ⑥ With the result, generates **QR code**.
- ⑦ Displays on the screen the following information: Chart Name, Moisture, Grain Weight, Measurement date, Chart Validation, Measuring ID, Equipment Serial Number, Chart SHA1, Sample Batch, License Plate and Sample Dial.  
  
Press the icon again to close the window.



## CHOOSING ANOTHER GRAIN CHART

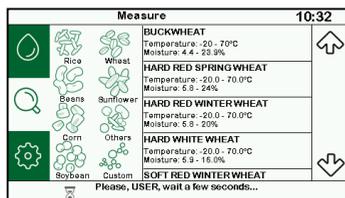
The **TOP 5** screen shows the last five selected charts.

- Click on the grain chart that you want. If the one you are looking for is not listed, click on the magnifier icon named **OTHERS**.



Pressing **OTHERS**.

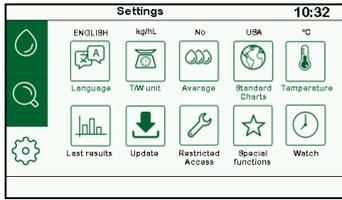
- Choose the desired commodity by pressing on it.
- If you do not see the desired grain, press **OTHERS**.
- If you have a custom grain chart, click on **CUSTOM**.
- Use the arrows on the right side of the screen to scroll-down all the charts.
- When you choose the desired chart, the equipment will return to the **HOME SCREEN**.



## CUSTOM CHARTS

Please contact the manufacturer to find out how to get a custom chart for your product. Once installed, look for it in the **CUSTOM** group.

# SETTINGS



In this option, the user has access to set the TW unit, language, average, moisture reading last result and others. Press the icon to customize your equipment.



Language

There are 6 languages available: **ENGLISH, SPANISH, GERMAN, FRENCH, ITALIAN AND PORTUGUESE.**



Last results

See **page 23** for more information.



TW

The test weight (TW) result can be displayed in 5 different units: **kg/hL , lb/bu , lb/A bu , lb/W bu.**



Update

See **page 23** for more information.



Average

Get the average moisture reading from 3 sequential dumps. Choose **YES** to enable and **NO** to disable.



Restricted Access

**Restricted area** access for technical assistance.



Standard Charts

Changes the Standard charts: **DEUTSCH** (German), **ARG** (Argentina), **BOL** (Bolivia), **BRA** (Brazil), **CGC** (Canada), **ESP** (General Spanish), **USA** (United States), **ITA** (Italian) and **MEX** (Mexico).



Special functions

See **page 24** for more information.



Temperature

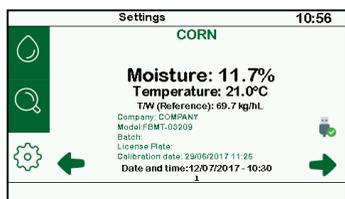
Switches between temperature units: **Celsius (°C)** and **Fahrenheit (°F)** available.



Watch

Use **^** and **v** to adjust the time. For hours use the left icon and for minutes, the right.

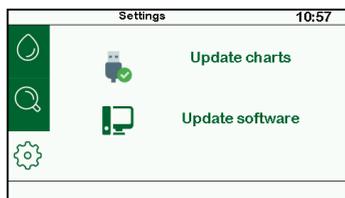
The equipment use the Military Time (24h-format).



## LAST RESULTS

Access the **LAST RESULTS** option to check the recorded reading, the equipment keep in the memory the last 10 results.

- Use the arrows to navigate.
- When the equipment identify a flash drive connected to the **USB Port A**, it will change the icon from  to .
- Press  to send all last results to your flash drive.
- To exit the screen, press on one of the three icons on the left (,  or .



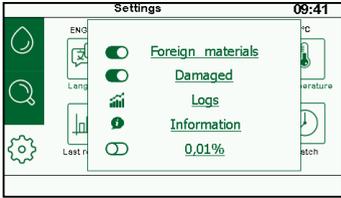
## UPDATE

The **UPDATE CHARTS** option should only be performed by, or under the supervision of, an authorized service personnel.

- Connect a flash drive with the update files provided by the manufacturer to the **USB port A**.
- When the equipment identify a flash drive connected to the **USB Port A**, it will change the icon from  to .
- Tap **Update Charts**. The machine will automatically search for the update files.
- At the end of the process, the equipment will beep, and must be reset by the user.

The **Update Software** option can only be performed by authorized service personnel.

# SPECIAL FUNCTIONS



## FOREIGN MATERIAL

Calculate the **percentage of foreign material**, based on sample size.

Enable  Disable

See **page 25** for more information.

## DAMAGED KERNEL

Calculate the **percentage of damaged kernel** contained in the measured sample.

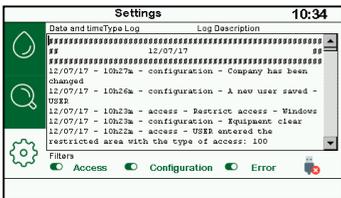
Enable  Disable

See **page 26** for more information.

## 0,01%

Selects whether the moisture result will be displayed with **one or two decimal places**.

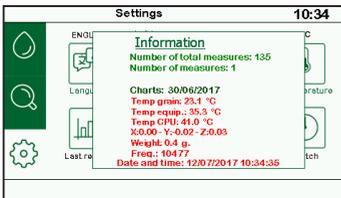
Enable  Disable



## LOGS

By clicking on **LOGS** option, is possible to see all errors, kinds of access and changes already have run on the equipment.

- Press  to enable or  to disable the filter of the item on the log report.
- You can only view the event report on the equipment screen.
- The extraction of the **LOG** to a pen drive by the **USB port** is allowed only for authorized personnel.



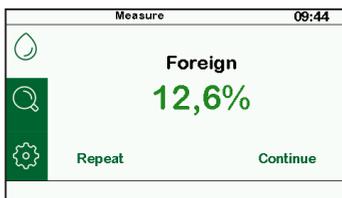
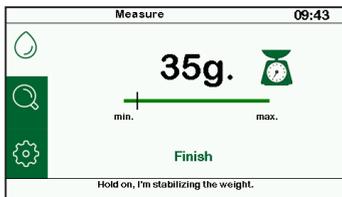
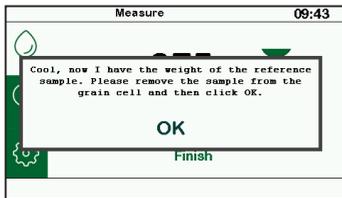
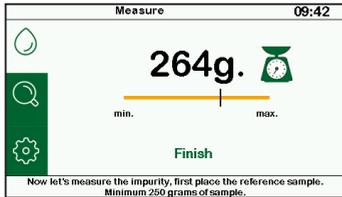
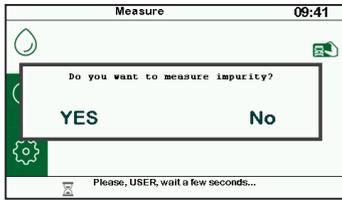
## INFORMATION

Shows general information of the equipment: number of measurements performed, total of moisture readings and Installation charts date. It also shows the real-time information of: temperature, leveling, weight, frequency, date and time.

# FOREIGN MATERIAL AND DAMAGED KERNEL

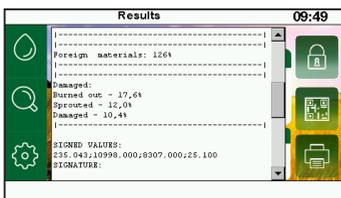
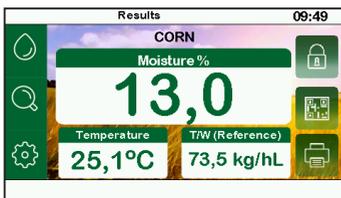
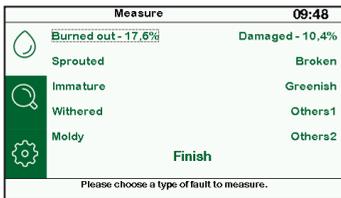
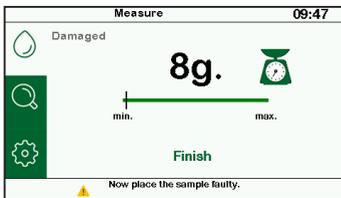
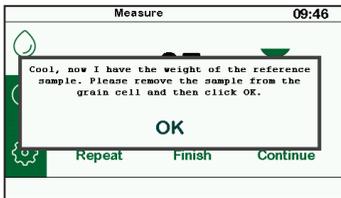
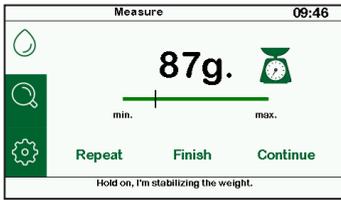
## FOREIGN MATERIAL

When the **FOREIGN MATERIAL** function is enabled, the equipment will ask if the user wishes to perform this function every time at the beginning of the measurement cycle.



- **IMPORTANT:** In the process of measuring the foreign material, **keep away the dump cell**. The sample should be added directly into the grain cell.
- **IMPORTANT:** The reference sample shall have a minimum weight of **250,0 grams**.
- Set the empty grain cell on the moisture meter.
- Place the full reference sample in the grain cell. Wait for stabilization.
- When prompted, remove the sample, return the empty grain cell into the equipment and press **OK**.
- Separate all foreign material from the full sample.
- Place in the grain cell everything that has been separated from the full sample.
- The moisture meter will show the percentage of foreign material in relation to the full sample.
- Press **Continue**.

After measuring the foreign material, the moisture reading as described on **page 19**.



## DAMAGED KERNEL

The function **DAMAGED KERNEL** makes it possible to separate partial samples with the most common faulty in grain comodites: **Burned out, Sprouted, Immature, Withered, Moldy, Damaged, Broken, Greenish** and two more fields for custom defects.

When the function is enabled, the equipment will ask if the user wants to perform the procedure every time after the moisture test.

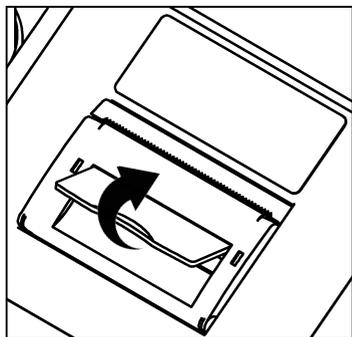
- **IMPORTANT:** In the process of the damaged kernel measuring, **keep away the dump cell.** The sample should be added directly into the grain cell.
- **IMPORTANT:** The reference sample shall have a minimum weight of **50,0 grams.**
- Set the empty grain cell on the equipment.
- Place the full reference sample in the grain cell, then wait for stabilization.
- When prompted, remove the sample, return the empty grain cell into the equipment and press **OK.**
- Separate faulty partial samples from the full sample.
- Select on the equipment screen the faulty you want to test.
- Place the partial sample of the selected faulty in the grain cell.
- The equipment will show the percentage value in relation to the full reference sample.
- Repeat the process for the remaining partial samples and after testing all groups press **Finish** to go to the results screen.

The **FOREIGN MATERIAL** and **DAMAGED KERNEL** information appear on the printed ticket, and also when you press .

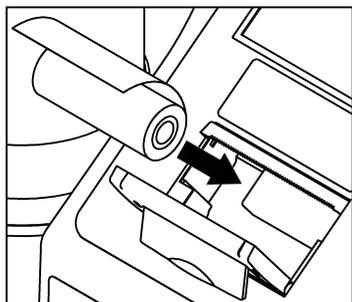
# PAPER PRINTER

## REPLACING PAPER

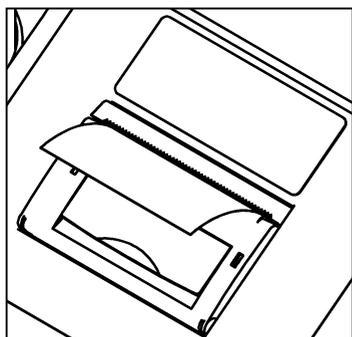
Please follow the steps to refill your printer with paper:



1. Open the printer door by pulling the hatch, as indicated in the image. The whole door set will open.



2. Remove the empty paper roller and insert the new thermal paper roller. Position the paper as shown.  
The paper must be inserted on the correct side, otherwise it will not print.  
This equipment uses thermal coil **57x22mm**.



3. Close the printer with a portion of the paper out of the printer.

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## MAINTENANCE

The equipment is factory calibrated with a Manufacturer Standard Tester, which goes under periodic verification to assure that it meets the requirements and standards defined by **USDA** (U.S. Department of Agriculture) and **CGC** (Canadian Grain Commission).

### EQUIPMENT CARE

Turn the equipment off and unplug it from the outlet. The presence of foreign material inside the grain cell directly affects the equipment accuracy.

- It is recommended to clean the accessible parts with a dam soft cloth.
- Be careful when cleaning the internal side of the grain cell to avoid damage to the sensors.
- The use of alcohol or other chemicals can damage the equipment.

### AC/DC ADAPTER REPLACING

If you need to replace the AC/DC power adapter, make sure it meets the specifications below:

- **INPUT:** AC 100-240V 50/60Hz
- **OUTPUT:** 12V 5A 
- **CONNECTOR:** Jack P2
- Contain **FCC, CE, RoHs** and **UL** approval seal.

### ANNUAL MAINTENANCE

To ensure accuracy, the equipment must be subjected to annual periodic maintenance, performed only at the authorized service network indicated by the manufacturer.

An authorized technician will evaluate the equipment and replace damaged and worn parts. Also, the equipment will be cleaned and calibrated again. A new Calibration Certificate will be issued, with date and validation period updated.

### MAINTENANCE SHIPMENT INSTRUCTION

For maintenance, please place the instrument in its original packaging along with all of its accessories described on page 10 in the package contents section. Take the equipment, or send it through a reliable courier, to one of the authorized service centers. We recommend the off-season, when the use of the equipment is reduced, to send to maintenance.

## TROUBLESHOOTING

A message display when an abnormal event occurs. Please, follow the instructions on the display or check below.

Contact our customer support for any message that display and are not listed.

Screen Message	Probable Cause	Corrective Action
Oops, I don't have any charts installed! Click on Magnifier Glass and select a chart.	No Charts installed	Select a grain chart using  . See page 21.
Let's try again? I couldn't stabilize the temperature.	Foreign Material in the grain cell	Clean the grain cell or remove any foreign material inside the grain cell.
Let's try again? I couldn't stabilize the weight	- Unstable Base - RF presence	Check the use condition of the equipment.
The selected chart is expired; the measurement does not have any legal value. Maintenance recommended.	Chart expired	Please call the customer support.
The printer is out of paper.	Printer without paper	Check the paper printer. See page 27 for more instructions.
User, the result was out of the moisture range.	Moisture out of range	Make sure your sample is compatible with the selected chart.
User, checked the equipment is inclined, please place it on a flat surface.	Uneven Equipment	Place the equipment on a flat surface.

Please contact the customer support for any error that displays and is not listed.

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## TECHNICAL ASSISTANCE

### **MTC - UNITED STATES**

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sales.usa@motomcogroup.com

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MOISTURE ANALYZERS