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AgraTronix Ag-MAC PLUS

AgraTronix Ag-MAC Plus Grain Moisture Tester User Manual

Model: Ag-MAC PLUS (30100)

INTRODUCTION

The AgraTronix Ag-MAC Plus is a precision instrument designed for accurately measuring the moisture content and test weight of various grains. This manual provides essential information for the proper setup, operation, and maintenance of your device to ensure reliable performance.



Image: The AgraTronix Ag-MAC Plus Grain Moisture Tester, shown with a sample of corn in its transparent hopper, ready for measurement. The device features an LCD display and control buttons.

PRODUCT FEATURES

- Direct readout for 20 different grain scales.
- Displays grain test weight without the need for pre-weighing.
- Measures moisture content quickly and accurately.

- Non-compaction design ensures consistent sample density.
- Integrated LCD display for clear readings.
- USB compatibility for data transfer.
- Automatic temperature compensation for enhanced accuracy.

SETUP

1. Unpacking

Carefully remove the Ag-MAC Plus tester and all accessories from its packaging. Inspect the device for any signs of damage. Retain the packaging for future storage or transport.

2. Battery Installation

1. Locate the battery compartment, typically on the underside or rear of the unit.
2. Open the compartment cover.
3. Insert four (4) AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

3. Initial Power-On

Press the power button to turn on the device. The LCD display should illuminate, indicating the device is ready for operation. If the display does not turn on, recheck battery installation or replace with fresh batteries.

OPERATING INSTRUCTIONS

1. Selecting Grain Scale

1. Turn on the Ag-MAC Plus tester.
2. Use the navigation buttons (usually up/down arrows) to scroll through the available grain scales on the LCD display.
3. Select the appropriate grain type that matches your sample.

2. Loading Sample

- Ensure the sample hopper is clean and empty.
- Pour the grain sample into the hopper. The non-compaction design allows for consistent sample loading without manual packing.
- Fill the hopper to the indicated level for accurate measurement.

3. Taking a Reading

1. Once the grain scale is selected and the sample is loaded, press the 'Measure' or 'Enter' button (refer to device specific button labels).
2. The device will automatically perform the measurement, including temperature compensation.
3. The moisture content (in percentage) and grain test weight will be displayed on the LCD.

4. Understanding Readings

The display resolution for moisture is 0.1%. The device provides direct readings, eliminating the need for

manual calculations. Automatic temperature compensation ensures accuracy across varying environmental conditions.

SUPPORTED GRAIN SCALES

The AgraTronix Ag-MAC Plus supports direct readout for the following grain types:

- Barley 2R
- Barley 6R
- Corn
- Oats
- Rapeseed (Canola)
- Rye
- Safflower
- Sorghum (Milo)
- Soybeans
- Sunflower Oil
- Triticale
- Wheat: Durum
- Wheat: Hard Red Spring
- Wheat: Hard Red Winter
- Wheat: Soft Red Winter

MAINTENANCE

1. Cleaning

Regularly clean the sample hopper and any grain contact surfaces to prevent contamination and ensure accurate readings. Use a soft, dry cloth or brush. Do not use abrasive cleaners or immerse the device in water.

2. Storage

Store the Ag-MAC Plus tester in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

3. Battery Replacement

Replace batteries when the low battery indicator appears on the LCD or if the device fails to power on. Always use fresh AA alkaline batteries.

TROUBLESHOOTING

- **Device Not Powering On:** Check battery installation and ensure batteries are fresh.
- **Inaccurate Readings:** Ensure the correct grain scale is selected. Verify the sample hopper is clean and free of debris. Ensure the sample is loaded correctly without compaction.
- **Display Issues:** If the LCD is dim or flickering, replace the batteries.

- **Error Codes:** Refer to the full manufacturer's manual for specific error code interpretations and solutions.

SPECIFICATIONS

Moisture Range	6% – 45% (depending on grain tested)
Temperature Range	40° – 113°F (5° – 45°C)
Repeatability & Accuracy	±0.3% in normal moisture range for stored grain
Display Resolution	0.1% moisture
Power Source	4 AA batteries
Design	Non-compaction
Connectivity	USB compatible

WARRANTY AND SUPPORT

The AgraTronix Ag-MAC Plus Grain Moisture Tester is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the documentation included with your product or visit the official AgraTronix website. For technical support, service, or parts, please contact AgraTronix customer service directly.