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› GOYERRNES Professional Grain Moisture Meter Instruction Manual

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Model: Professional Grain Moisture Meter

INTRODUCTION

The GOYERRNES Professional Grain Moisture Meter is designed for precise and rapid measurement of moisture content, weight, density, and temperature in various grain types. This device utilizes advanced variable frequency capacitive technology with automatic thermistor compensation to ensure accurate readings for grain procurement and storage.

It offers a moisture measurement range of 3% to 35% with an accuracy of $\pm 0.5\%$ and repeatability of $\leq 0.2\%$. Measurements are typically completed within 10 seconds.

HOW TO MEASURE?



1. Press ON/OFF button, select measurement species (check manual for code).



2. Place 200g weight, press up button to check. Calibrate if weight is off, then start measuring.



3. Install measuring funnel and pour grain into it.



4. Press funnel switch, pour grain into tester. View data in 10 seconds.

WEIGHT CALIBRATION



1. Place tester horizontally. Press and hold "Species" while pressing "On/Off" once. It will beep.



2. Release "Species" button. Display will flash 0g, then flash 200g, indicating weight calibration mode.



3. Place 200g weight on machine. It will automatically calibrate and shut down.

Image: Overview of the Professional Grain Moisture Meter highlighting its features such as measurement of 24 grain types, simple operation, automatic temperature compensation, fast detection, two power modes, and portable case.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Grain Moisture Meter
- 1 x Portable Aluminum Case
- 1 x 200g Calibration Weight
- 4 x AA Batteries
- 1 x Power Adapter
- 1 x Small Brush
- 1 x Chute Bucket
- 1 x Sampler

PORTABLE AND DURABLE ALUMINUM CASE

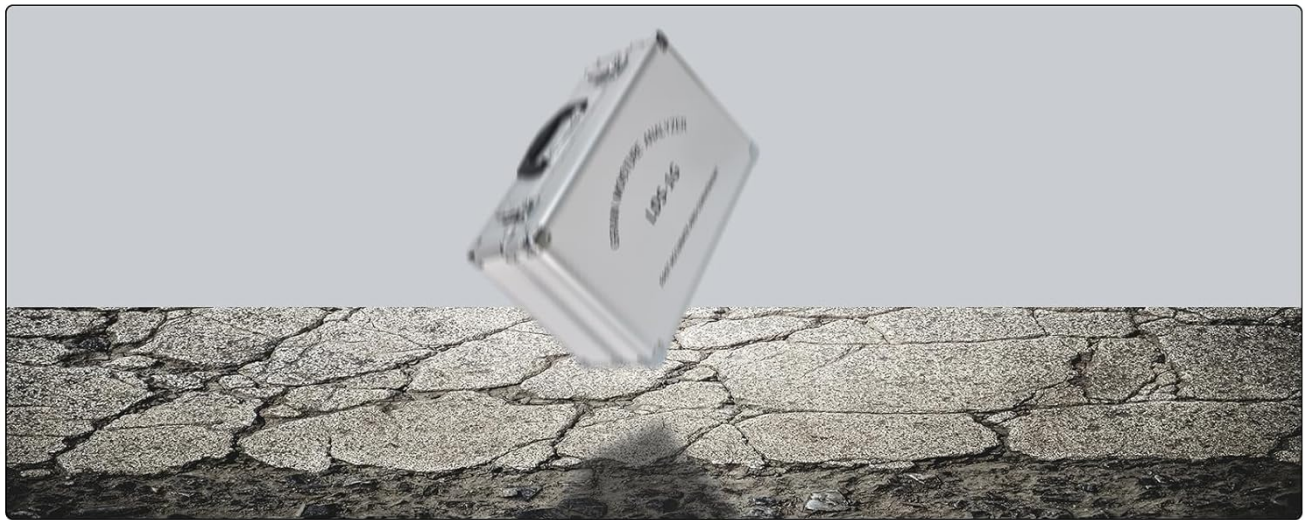


Image: A person carrying the portable aluminum case for the grain moisture meter in a field, and an image of the case being dropped to demonstrate durability.

SETUP

Power Supply

The grain moisture meter offers two power options:

1. **AA Batteries:** Insert the 4 AA batteries into the battery compartment located on the underside of the device. This option provides portability for on-the-go measurements.
2. **AC Power Adapter:** Connect the provided power adapter to the Type-C power port on the device and plug it into a standard electrical outlet. This method is suitable for extended measurement sessions.



Image: Illustration showing the two power supply methods: inserting AA batteries into the compartment and connecting the AC power adapter to the device.

Initial Inspection

Before first use, ensure the device is clean and free from any debris. Familiarize yourself with the pushbutton operating panels, display, and measurement sensors as indicated in the diagram.

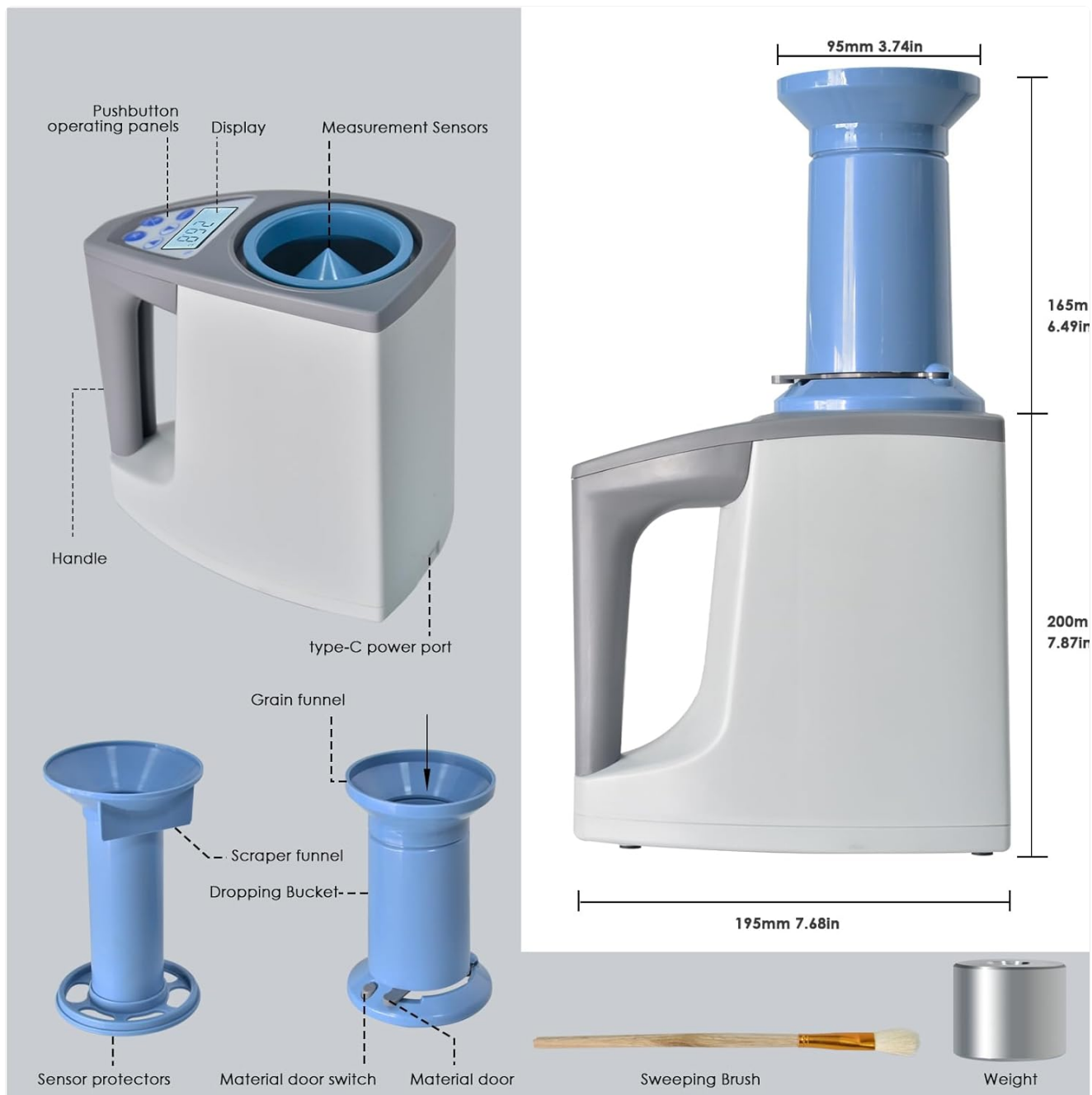


Image: Detailed diagram of the grain moisture meter, labeling components such as pushbutton operating panels, display, measurement sensors, handle, Type-C power port, grain funnel, scraper funnel, dropping bucket, sensor protectors, material door switch, material door, sweeping brush, and 200g weight. Dimensions are also provided.

OPERATING INSTRUCTIONS

Weight Calibration

Perform weight calibration before each weighing session to ensure accurate results. Use the provided 200g calibration weight.

1. Place the tester horizontally on a stable surface.
2. Press and hold the **"Species"** button while pressing the **"On/Off"** button once. The device will emit a beep.
3. Release the **"Species"** button. The display will first flash **"0g"**, then flash **"200g"**, indicating it is in weight calibration mode.
4. Place the 200g calibration weight onto the designated area of the machine. The device will automatically calibrate and then shut down.

ACCURATE MEASUREMENT

Equipped with standard weights for calibration, to ensure the accuracy of measurement.



1. Place tester horizontally. Press and hold "Species" while pressing "On/Off" once. It will beep.



2. Release "Species" button. Display will flash 0g, then flash 200g, indicating weight calibration mode.



3. Place 200g weight on machine. It will automatically calibrate and shut down.

Image: Visual guide showing the three steps for weight calibration: 1. Holding 'Species' and pressing 'On/Off'. 2. Display showing '0g' then '200g'. 3. Placing the 200g weight for automatic calibration.

Grain Measurement

The meter can measure moisture, weight, density, and temperature for over 20 types of grains. Refer to the device's internal codes for specific grain types.



Image: Visual representation of 20 common grains (Japonica Paddy, Black sesame, Soybeans, Oil sunflower seeds, Wheat, Watermelon seed, Rapeseed, Cottonseed, Corn, Soybean meal, Barley, Cottonseed meal, Indica rice, Rapeseed meal, Rice, Pellet feed, Large grain corn, Wheat, Peanut Kernel, Sorghum) and 4 slots for customized grains, indicating the meter's versatility.

1. Press the **"ON/OFF"** button to power on the device.
2. Use the **"Species"** button and arrow buttons (up/down) to select the appropriate grain type for measurement. The display will show the selected species code.
3. Install the measuring funnel onto the device.
4. Pour the grain sample into the funnel. Ensure the sample is representative and fills the funnel appropriately.
5. Activate the funnel switch to allow the grain to drop into the tester.
6. The device will automatically begin measurement. View the data (moisture, weight, density, temperature) on the LCD display within approximately 10 seconds.



Image: Visual guide showing the four steps for grain measurement: 1. Pressing ON/OFF and selecting species. 2. Calibrating with 200g weight (if needed). 3. Installing funnel and pouring grain. 4. Activating funnel switch and viewing data.



Image: Illustration showing the four types of measurements the device performs: Moisture (%), Weight (g), Density (g/L), and Temperature (°C). It also shows the control buttons for Species, Temperature, Weight, Density, ON/OFF, and OK/Humidity.

MAINTENANCE

- **Cleaning:** After each use, especially after measuring dusty grains, use the provided small brush to clean the grain funnel, dropping bucket, and measurement sensors. Ensure no grain residue remains inside the device.
- **Storage:** Store the moisture meter in its portable aluminum case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** If using AA batteries, replace all four batteries when the low battery indicator appears on the display to ensure consistent performance.
- **Calibration Weight:** Keep the 200g calibration weight clean and free from damage. Store it securely in the case.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted batteries; power adapter not connected properly.	Replace AA batteries or ensure AC power adapter is securely connected and receiving power.
Inaccurate measurements.	Device not calibrated; grain residue in sensors; incorrect grain type selected.	Perform weight calibration. Clean the measurement sensors and funnel. Verify the correct grain species is selected.
Display shows error message.	Internal error; sensor obstruction.	Power off the device, wait a few seconds, then power it back on. Ensure no foreign objects are obstructing the sensors. If the error persists, contact customer support.

SPECIFICATIONS

Measuring Object	Grain and other non-metallic granular samples
Measuring Moisture Range	3-35%
Measuring Accuracy	±0.5%

Repeating Accuracy	≤0.2%
Measuring Time	<10 seconds
Material	ABS
Power Source	4 x AA Batteries or AC Power Adapter (USB plug)
Item Weight	2.86 kg
Parcel Dimensions	35.7 x 27.7 x 15.2 cm
Device Dimensions (approx.)	95mm (top width) x 165mm (funnel height) x 200mm (base height) x 195mm (base width)

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact GOYERRNES customer service directly. Contact details can typically be found on the manufacturer's official website or on the product packaging.