

John Deere SW07310

John Deere SW07310 Hand Held Low Moisture Range Hay Tester User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of the **John Deere Model SW07310 Hand Held Low Moisture Range Hay Tester**. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) when handling hay or operating machinery.
- Keep the device dry. Do not expose it to rain or moisture, as this can damage internal components and pose an electrical hazard.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Store the hay tester in a secure location, out of reach of children and animals.
- Ensure the probe is clean and free from debris before and after each use to prevent inaccurate readings and potential contamination.

3. PRODUCT OVERVIEW

The John Deere SW07310 Hay Tester is a portable, battery-operated device designed to accurately measure the moisture content in hay bales. It features a robust probe for deep penetration into hay, a clear digital display for easy reading, and simple controls for straightforward operation. Understanding the main components is key to effective use.



This image displays the front cover of the John Deere SW07310 Hand Held Low Moisture Range Hay Tester Operator's Manual, featuring the John Deere logo and product identification.

Key Components:

- **Probe:** The long, pointed metal rod inserted into the hay to take readings.
- **Handle/Main Unit:** Contains the electronics, display, and control buttons.
- **Digital Display:** Shows the moisture percentage reading.
- **Power Button:** Turns the device on and off.
- **Battery Compartment:** Located on the handle, for battery installation.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the handle of the hay tester.
2. Carefully slide or unclip the cover to open the compartment.
3. Insert a new 9V alkaline battery, ensuring correct polarity (+ and - terminals match the diagram inside the compartment).
4. Replace the battery compartment cover, ensuring it is securely closed.

4.2 Initial Check

After installing the battery, press the Power Button. The digital display should illuminate and show a brief startup sequence, then display '0.0' or a similar standby reading. If the display does not light up, recheck battery installation or replace the battery.

5. OPERATING INSTRUCTIONS

5.1 Taking a Moisture Reading

1. Turn on the hay tester by pressing the Power Button.
2. Select a representative area of the hay bale for testing. For accurate results, test multiple locations within the bale.
3. Firmly and steadily insert the probe into the hay bale. Ensure the probe penetrates deep enough to reach the core of the bale, as moisture content can vary throughout.
4. Hold the probe steady in position. The digital display will show a reading that may fluctuate initially. Wait for the reading to stabilize (typically within 5-10 seconds).
5. Record the stabilized moisture percentage reading.
6. Carefully withdraw the probe from the hay bale.
7. Repeat the process in different areas of the bale or across multiple bales to get an average moisture content.

5.2 Interpreting Readings

The ideal moisture content for hay storage varies depending on hay type and storage conditions. Generally, hay should be baled and stored at moisture levels below 20% to prevent mold growth and spoilage. Consult local agricultural guidelines for specific recommendations.

6. MAINTENANCE

6.1 Cleaning

- After each use, wipe the probe clean with a dry cloth to remove any hay residue or debris.
- Do not use abrasive cleaners or solvents, as these can damage the probe or the device's casing.
- Ensure the probe is completely dry before storage.

6.2 Storage

- Store the hay tester in a cool, dry place, away from direct sunlight and extreme temperatures.
- If the device will not be used for an extended period, remove the battery to prevent leakage and potential damage to the electronics.

6.3 Battery Replacement

When the low battery indicator appears on the display, or if the device fails to power on, replace the 9V battery following the instructions in Section 4.1.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed battery	Check battery polarity; replace battery
Inconsistent or inaccurate readings	Dirty probe; insufficient probe insertion; hay too dense/loose	Clean probe; ensure full insertion; test multiple spots

Problem	Possible Cause	Solution
Display shows error message	Device malfunction; out of range reading	Turn off and on again; if persistent, contact support

If troubleshooting steps do not resolve the issue, do not attempt further repairs. Contact authorized service personnel.

8. SPECIFICATIONS

- **Model:** SW07310
- **Moisture Range:** 10% - 40% (typical for hay testers)
- **Accuracy:** ±2% (typical)
- **Display:** Digital LCD
- **Power Source:** 9V Alkaline Battery (not included)
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)
- **Storage Temperature:** -10°C to 60°C (14°F to 140°F)
- **Dimensions:** (Approximate, varies by design)
- **Weight:** (Approximate, without battery)

9. WARRANTY AND SUPPORT

This John Deere product is covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official John Deere website. For technical support, replacement parts, or service inquiries, please contact your authorized John Deere dealer or customer service representative. When contacting support, please have your model number (SW07310) and serial number (if applicable) ready.

John Deere Official Website: www.deere.com