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› AgraTronix DHT-1 Portable Hay Moisture Meter User Manual

## AgraTronix DHT-1

# AgraTronix DHT-1 Portable Hay Moisture Meter

Model: DHT-1 | Brand: AgraTronix

### INTRODUCTION

The AgraTronix DHT-1 Portable Hay Moisture Meter is designed for accurate measurement of moisture content and temperature in baled hay. This device provides direct digital readouts, assisting hay producers in ensuring optimal storage conditions and quality. Its robust design, including an 18-inch probe and a backlit LCD, makes it suitable for field use.

Key features include:

- Direct readout for percentage moisture and temperature (Fahrenheit and Celsius).
- Backlit LCD display for enhanced visibility, especially during nighttime operation.
- Sturdy pistol-grip handle for comfortable and secure handling.
- Extra-rugged 18-inch probe shaft constructed from aircraft aluminum for durability.
- Accurate measurements within the normal range of stored, baled hay.

### PRODUCT COMPONENTS



*Figure 1: AgraTronix DHT-1 Portable Hay Moisture Meter. This image displays the AgraTronix DHT-1 Portable Hay Moisture Meter. It consists of a long, slender 18-inch probe with a pistol-grip handle, connected by a coiled cord to a compact digital display unit. The display unit shows '18.7' and has buttons for moisture and temperature readings. The brand 'AgraTronix' is visible on the display unit.*

The DHT-1 meter consists of two primary components:

1. **Digital Display Unit:** This unit houses the LCD display, control buttons, and internal electronics. It provides direct readouts of moisture percentage and temperature.
2. **18-inch Probe:** Made of durable aircraft aluminum, this probe is designed to be inserted into hay bales to measure moisture and temperature. It features a pistol-grip handle for ease of use and connection to the display unit via a coiled cord.

## SETUP

### 1. Battery Installation

The DHT-1 meter operates on a 9V battery. To install or replace the battery:

1. Locate the battery compartment on the back of the digital display unit.

2. Slide open the battery cover.
3. Connect a new 9V battery to the battery clip, ensuring correct polarity.
4. Place the battery into the compartment and close the cover securely.

## 2. Probe Attachment

Ensure the 18-inch probe is securely connected to the digital display unit via the coiled cord. The connector should click into place to ensure a stable connection for accurate readings.

## OPERATING INSTRUCTIONS

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### 1. Powering On/Off

Press the power button (usually integrated with one of the function buttons) to turn the unit on. The backlit LCD display will illuminate. To turn off the unit, press and hold the power button, or it may automatically shut off after a period of inactivity to conserve battery life.

### 2. Taking a Moisture Reading

1. Ensure the meter is powered on.
2. Carefully insert the 18-inch probe into the hay bale. For best results, insert the probe fully into the center of the bale.
3. Wait a few seconds for the reading to stabilize. The moisture percentage will be displayed on the LCD screen.
4. Note the reading. Remove the probe from the bale.

### 3. Taking a Temperature Reading

The DHT-1 meter can also display temperature. Press the dedicated temperature button (often indicated by a thermometer icon) to switch the display from moisture percentage to temperature. Insert the probe into the hay bale as described for moisture readings and allow time for the temperature to stabilize.

### 4. Using the Backlit Display

The backlit LCD display is useful for operation in low-light conditions or at night. The backlight typically activates automatically when the unit is powered on or when a button is pressed. Refer to the display unit for specific backlight controls if available.

## MAINTENANCE

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### 1. Cleaning the Probe

After each use, especially when measuring moist hay, clean the probe shaft to remove any residue. Use a dry cloth to wipe down the probe. Do not use abrasive cleaners or immerse the display unit in water.

### 2. Storage

Store the DHT-1 meter in a clean, dry place away from extreme temperatures and direct sunlight. It is recommended to store the probe and display unit in a protective case if available to prevent damage.

### 3. Battery Replacement

Replace the 9V battery when the display becomes dim or the unit fails to power on. Always dispose of used batteries responsibly according to local regulations.

## TROUBLESHOOTING

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| Problem                                                         | Possible Cause                                                                                         | Solution                                                                                                                                                                         |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Meter does not power on.                                        | Dead or improperly installed battery.                                                                  | Replace the 9V battery or ensure it is correctly installed.                                                                                                                      |
| Inaccurate or inconsistent readings.                            | Probe not fully inserted.<br>Probe tip is dirty or damaged.<br>Hay density variations.<br>Battery low. | Ensure probe is fully inserted into the bale's center.<br>Clean the probe tip. Inspect for damage.<br>Take multiple readings in different areas of the bale.<br>Replace battery. |
| Display is dim or flickering.                                   | Low battery.                                                                                           | Replace the 9V battery.                                                                                                                                                          |
| Buttons are unresponsive or slow.                               | Low battery or internal issue.                                                                         | Replace the 9V battery. If problem persists, contact customer support.                                                                                                           |
| Minimum moisture reading is higher than expected (e.g., 14.5%). | This model may have a specified minimum reading threshold.                                             | This is a characteristic of some moisture meters. If lower moisture content is critical, consider a model with a lower minimum detection range.                                  |

## SPECIFICATIONS

|                          |                                |
|--------------------------|--------------------------------|
| Brand                    | AgraTronix                     |
| Model Number             | DHT-1                          |
| Part Number              | 07100                          |
| Item Weight              | 2.3 Pounds                     |
| Product Dimensions       | 30 x 7 x 3 inches              |
| Probe Length             | 18 inches                      |
| Material                 | Aluminum (Probe Shaft)         |
| Color                    | Black                          |
| Battery Type             | 9V (9 volts_of_direct_current) |
| Upper Temperature Rating | 225 Degrees Fahrenheit         |
| Temperature Accuracy     | 1 degree Celsius               |
| Mounting Type            | Tabletop (for display unit)    |

## WARRANTY AND SUPPORT

### Warranty Information

Specific warranty details for the AgraTronix DHT-1 Portable Hay Moisture Meter are typically provided with the

product packaging or can be obtained directly from AgraTronix. It is recommended to retain your purchase receipt for warranty claims.

## Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact AgraTronix customer support. You can often find contact information on the manufacturer's official website or through the retailer where the product was purchased.

Visit the official [AgraTronix Store on Amazon](#) for more information and product resources.

## OFFICIAL PRODUCT VIDEOS

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No official product videos from the seller were found for this model at this time. Please refer to the written instructions and diagrams for guidance.

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This manual is for informational purposes only. Specifications are subject to change without notice.