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DEWIN LY601

DEWIN Soil pH and Moisture Meter LY601 User Manual

Model: LY601 | Brand: DEWIN

1. Introduction

The DEWIN Soil pH and Moisture Meter LY601 is a portable device designed for quick and accurate measurement of soil pH levels and moisture content. This instrument is essential for maintaining optimal soil conditions, which is crucial for healthy plant growth in various environments such as gardens, greenhouses, farmlands, and orchards. Its plug-and-play design ensures ease of use, providing immediate data for informed decision-making.

2. Product Overview

The DEWIN Soil pH and Moisture Meter LY601 features a robust design with a clear analog display and a sensitive probe for reliable measurements.





Figure 2.1: Front view of the DEWIN Soil pH and Moisture Meter LY601.

2.1 Components

- **Analog Display Screen:** Shows pH and moisture readings.
- **Mode Switch Button:** Toggles between pH and Moisture measurement modes.
- **Measurement Probe:** The metallic rod inserted into the soil for analysis.



Figure 2.2: Close-up of the meter's display and controls. The top part is the screen, below it is the product number (LY-601), and the button allows switching between pH and moisture readings.

3. Specifications

Feature	Detail
Model	LY601
Measurement Functions	Soil pH, Soil Moisture
pH Resolution	0.1 pH
Dimensions (Overall)	Approximately 39 cm (15 inches)

Feature	Detail
Probe Length	Approximately 25 cm (9.8 inches)
Package Weight	0.21 Kilograms
Power Source	No batteries required (passive measurement)
Material	Nanotechnology material (probe)



Figure 3.1: Dimensions of the DEWIN Soil pH and Moisture Meter LY601.

4. Setup

The DEWIN Soil pH and Moisture Meter LY601 requires minimal setup due to its passive, battery-free operation.

1. **Unpack:** Carefully remove the meter from its packaging.
2. **Inspect:** Check the probe and display for any visible damage. Ensure the probe tip is clean.

3. **No Power Required:** The device operates without batteries, drawing its power from the soil's electrochemical reactions.

5. Operating Instructions

Follow these steps for accurate soil pH and moisture measurements:

1. **Prepare Soil:** For best results, ensure the soil is moist. If the soil is very dry, water it thoroughly and wait 20-30 minutes before testing. The meter is designed for use only in soil; it will not provide accurate readings in water or other liquids.
2. **Select Mode:** Use the switch button on the meter to select either 'pH' or 'MOISTURE' mode.
3. **Insert Probe:** Insert the metallic probe into the soil vertically, pushing it down gently until approximately 2/3 of its length is submerged. Avoid inserting only the tip, as this will not yield accurate results. Ensure the probe makes full contact with the soil.



Figure 5.1: Proper probe insertion depth (approximately 2/3 of the probe length) into the soil. The meter is designed for dirt and soil only.

4. **Read Measurement:** Wait a few seconds for the needle on the analog display to stabilize. Read the value indicated by the needle.

5. **Record Data:** Note down the pH or moisture reading.
6. **Remove and Clean:** Carefully pull the probe out of the soil. Wipe the probe clean with a soft cloth or tissue after each use to prevent corrosion and ensure accuracy for future measurements.





Figure 5.2: The meter is capable of measuring both soil moisture value and soil pH.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your DEWIN Soil pH and Moisture Meter LY601.

- **Clean Probe:** Always clean the metallic probe thoroughly after each use. Use a soft, damp cloth or tissue. Do not use abrasive materials or harsh chemicals, as these can damage the probe's sensitive surface.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the probe clean and dry when not in use.
- **Avoid Impact:** Handle the meter with care to prevent physical damage to the probe or display.

7. Troubleshooting

If you encounter issues with your meter, refer to the following common troubleshooting tips:

- **No Reading or Unstable Reading:**
  - Ensure the probe is inserted deep enough (at least 2/3 of its length) into the soil.
  - Verify the soil is sufficiently moist. Very dry soil may not allow for proper electrical contact for measurement.
  - Clean the probe thoroughly. Residue can interfere with readings.
  - Ensure the meter is switched to the correct mode (pH or MOISTURE).
- **Inaccurate Readings:**
  - Recalibrate your understanding of soil moisture. The meter measures relative moisture, not absolute percentage.
  - Ensure the soil is free from large debris or rocks that might prevent good probe contact.
  - Test in multiple spots to get an average reading, as soil conditions can vary.
- **Meter Not Working in Water:**
  - This meter is specifically designed for soil testing and will not provide accurate readings when immersed in water or other liquids.

8. Application Areas

The DEWIN Soil pH and Moisture Meter LY601 is suitable for a wide range of applications where soil conditions need to be monitored:

- Agricultural fields
- Greenhouses

- Rice paddies
- Vegetable gardens
- Orchards
- Flower beds
- Soil research and analysis



Figure 8.1: Examples of the DEWIN Soil pH and Moisture Meter LY601 in use across various agricultural and gardening settings.

9. Warranty and Support

For warranty information or technical support regarding your DEWIN Soil pH and Moisture Meter LY601, please refer to the product packaging or contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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