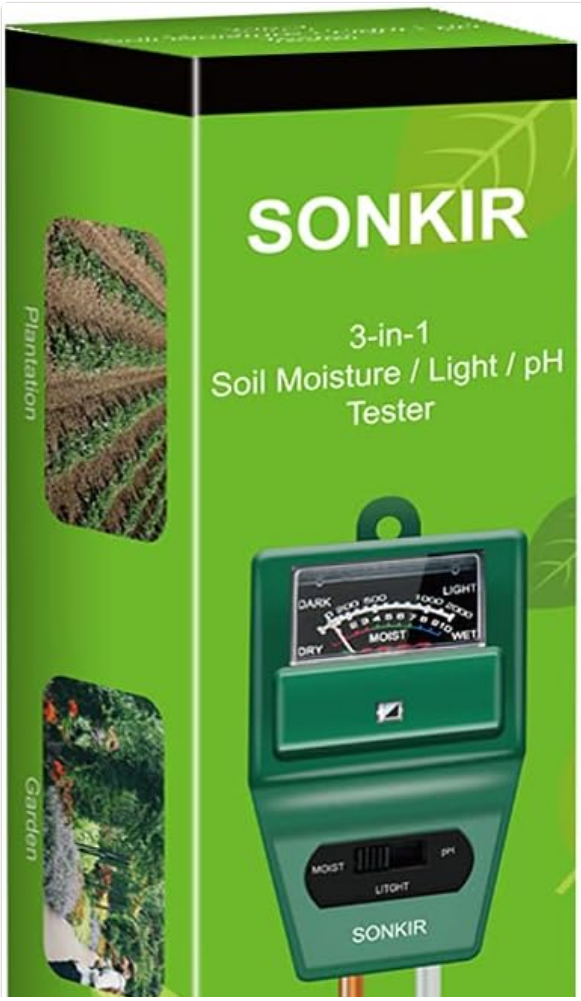
SONKIR MS02

User Manual: SONKIR 3-in-1 Soil pH Meter MS02

Model: MS02 | Brand: SONKIR

Introduction

The SONKIR MS02 3-in-1 Soil pH Meter is a versatile and essential tool for gardeners, farmers, and plant enthusiasts. This device accurately measures three critical soil parameters: moisture content, pH level, and sunlight intensity. Designed for ease of use, it requires no batteries, making it a convenient and reliable choice for maintaining optimal growing conditions for your plants, both indoors and outdoors.





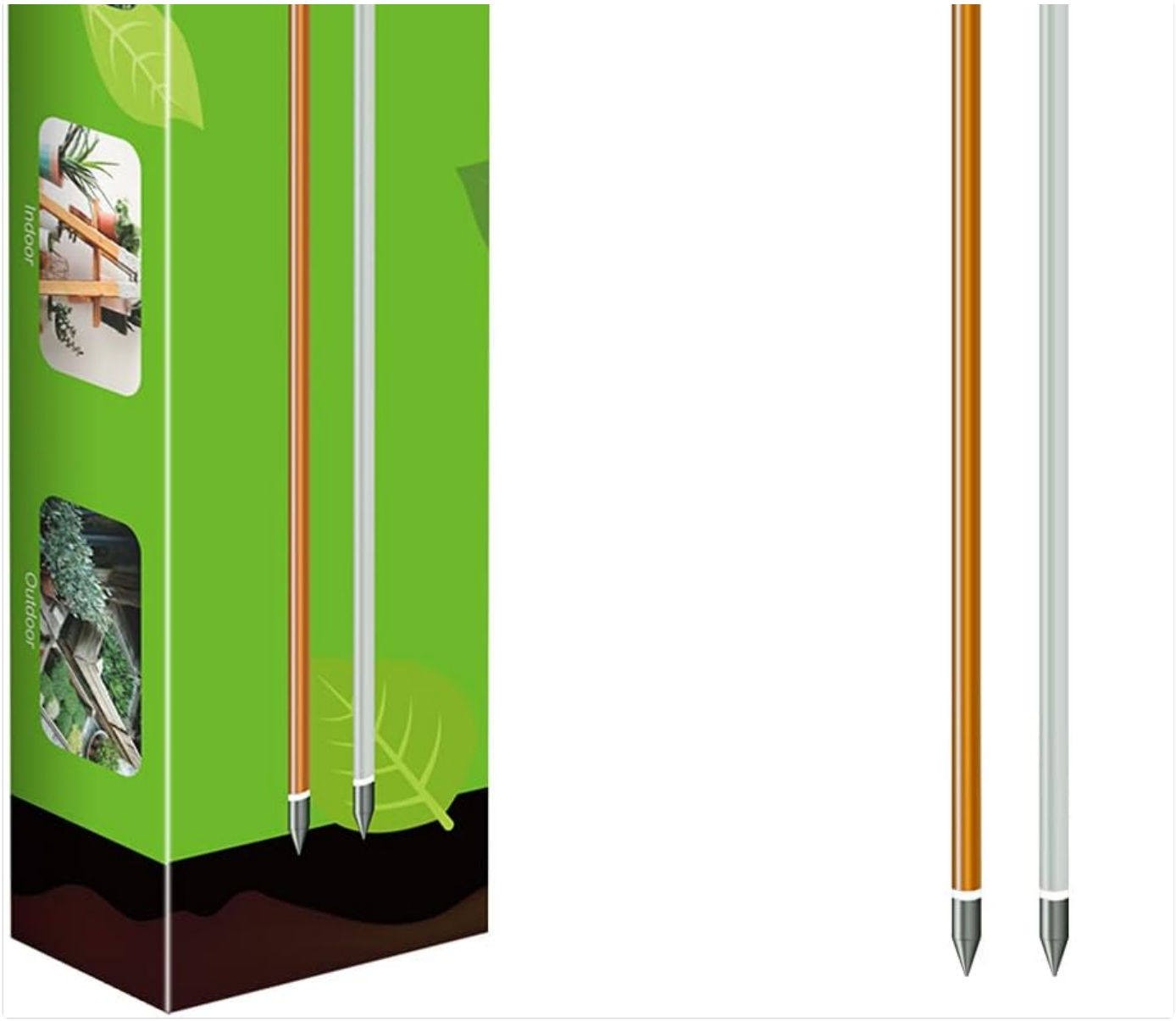


Image: The SONKIR MS02 3-in-1 Soil pH Meter shown alongside its product packaging, highlighting its compact design and readiness for use.

Product Features

- **3-in-1 Functionality:** Easily test soil moisture level, soil pH value, and sunlight intensity with a single device by switching the function button.
- **Battery-Free Operation:** No batteries are needed. Simply insert the meter into the soil, and accurate test results will be displayed on the readout panel within minutes.
- **Durable and Scientific Design:** Constructed with reliable materials and advanced technology for long-term, high-quality performance.
- **Portable and Compact:** Its design makes it ideal for use in house gardens, farms, lawns, and for various indoor and outdoor plant analysis needs.
- **Important Note:** This soil tester is designed specifically for soil and cannot be used to test the pH value of any other liquid. If the soil is too dry, the indicator will not move; water the soil before testing.

1

Three modes
A button can be freely switched to three modes. It is fast and practical





2

High-grade material and high-class manufacturing technology result in endurable product features and longer lasting life

3

Advanced needle technics for better precision Enlarged scale space improves reading experience



Image: A visual representation of the three measurement modes (Moist, Light, pH) and the advanced needle technology for precise readings.



Image: This image highlights the battery-free nature, the dual sensor design for efficient and precise measurements, and the compact, user-friendly design of the meter.

Components and Functions

The SONKIR MS02 meter consists of several key components, each serving a specific function for accurate soil analysis:

- **Readout Scale:** Displays pH, Light, and Moisture readings.
- **Light Sensor:** Measures light intensity (0-2000 LUX).
- **pH Sensor:** Measures soil pH in the range of 3.5 - 8 pH.
- **Moisture Sensor:** Indicates moisture levels (Red: 1-3 dry, Green: 4-7 moisture, Blue: 8-10 wet).
- **Switch:** A toggle switch to select between MOIST, LIGHT, and pH measurement modes.

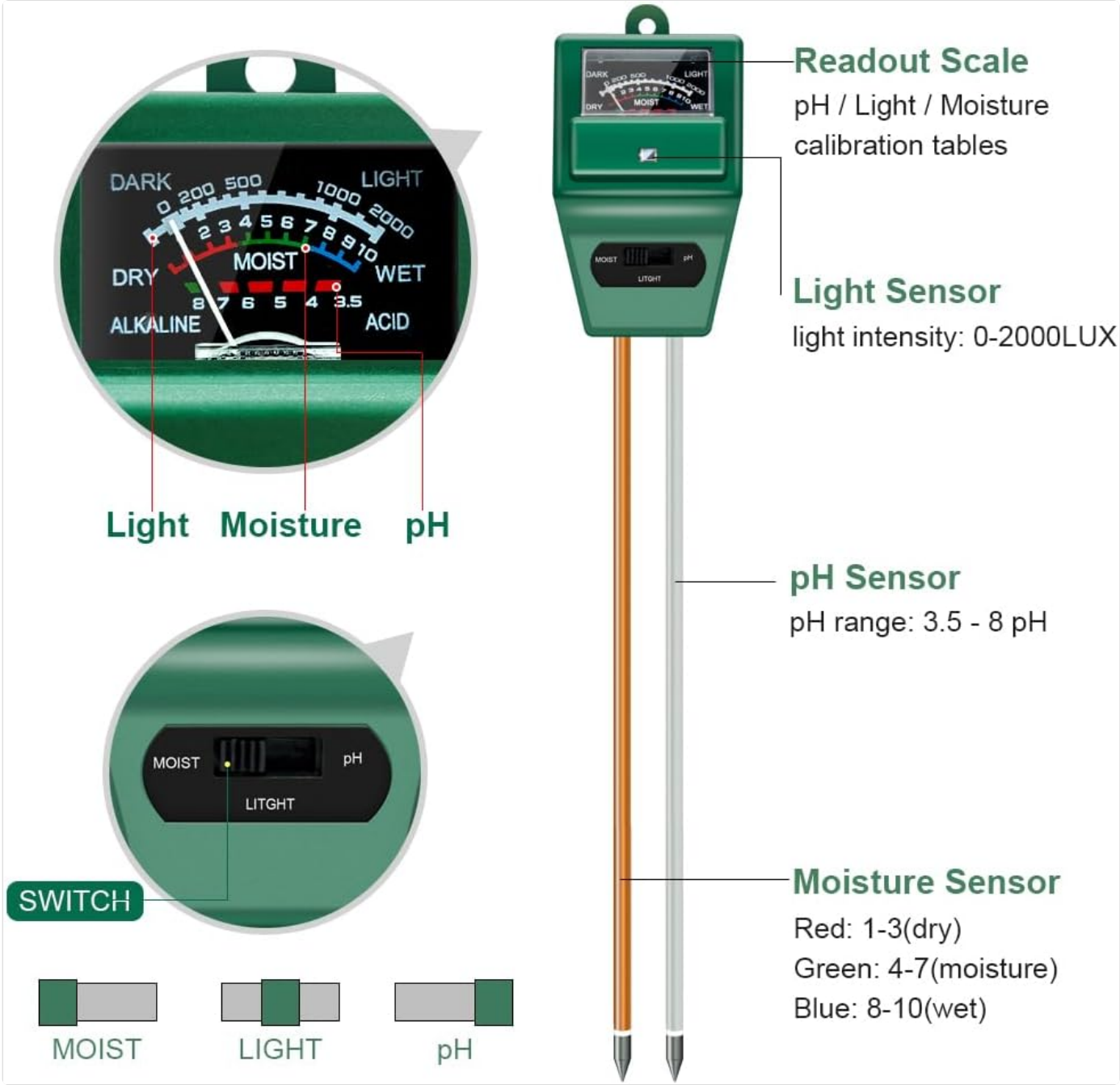


Image: An annotated diagram detailing the readout scale, light sensor, pH sensor, moisture sensor, and the mode switch on the SONKIR MS02 meter.

Setup

The SONKIR MS02 Soil pH Meter is designed for immediate use with minimal setup. Follow these steps to prepare your meter for testing:

1. **Unpack the Meter:** Carefully remove the soil meter from its packaging.
2. **Inspect the Probes:** Ensure the two metal probes are clean and free from any debris or residue. If necessary, gently wipe them with a clean cloth.
3. **Prepare the Soil:** For accurate readings, the soil should be moist. If the soil is very dry, water it thoroughly and wait for about 20-30 minutes before testing to allow the water to distribute evenly. Avoid testing immediately after watering, as this can lead to inaccurate moisture readings.

Operating Instructions

The MS02 meter allows you to measure moisture, pH, and light levels. Select the desired function using the switch on the device.

Measuring Moisture

1. Set the switch to the "MOIST" position.
2. Insert the probes into the soil, approximately 2-4 inches deep, ensuring both probes are fully submerged and making good contact with the soil.
3. Read the moisture level on the dial. The scale ranges from 1 (DRY) to 10 (WET).

Measuring pH

1. Set the switch to the "pH" position.
2. Insert the probes into the soil, approximately 2-4 inches deep. Ensure the soil is moist.
3. Wait for about 10 minutes for the reading to stabilize. The pH scale ranges from 3.5 (ACID) to 8 (ALKALINE).
4. **Note:** Do not touch the metal probes with your fingers, as skin oils can affect the reading. Clean the probes after each use.

Measuring Light

1. Set the switch to the "LIGHT" position.
2. Point the light sensor at the top of the meter towards the light source.
3. The dial will indicate the light intensity from DARK to LIGHT (0-2000 LUX).
4. **Note:** This measurement does not require inserting the probes into the soil.

Important Considerations for Accurate Readings

- Ensure the soil is adequately moist before testing, especially for pH and moisture readings.
- Insert the probes gently to avoid damaging them or the plant roots.
- Clean the probes thoroughly after each use to prevent contamination and ensure longevity.
- Avoid using the meter in very hard or rocky soil, which could bend or break the probes.



Image: The SONKIR MS02 meter in different application settings, including plantation fields, home gardens, indoor potted plants, and outdoor plant beds, demonstrating its versatility.

Maintenance

Proper maintenance will extend the life and accuracy of your SONKIR MS02 Soil pH Meter:

- **Clean Probes:** After each use, wipe the probes clean with a soft cloth or paper towel to remove any soil particles or moisture. Do not use abrasive materials or harsh chemicals.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the protective caps on the probes if provided.
- **Avoid Immersion:** Do not immerse the main body of the meter in water or any other liquid.
- **Handle with Care:** The probes are delicate. Avoid bending or forcing them into hard soil.

Troubleshooting

If you encounter issues with your SONKIR MS02 Soil pH Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Needle does not move for Moisture or pH.	Soil is too dry; probes are not fully inserted or not making good contact; probes are dirty.	Water the soil and wait 20-30 minutes before retesting. Ensure probes are fully inserted and making firm contact. Clean probes thoroughly.
Inaccurate pH readings.	Soil is too dry; probes are dirty; testing liquid instead of soil.	Ensure soil is moist. Clean probes. Remember, this meter is for soil only, not liquids.
Light reading is inconsistent.	Light sensor is obstructed; meter is not pointed directly at light source.	Ensure the light sensor is clear. Point the top of the meter directly towards the light source for an accurate reading.
Probes are bent or damaged.	Forcing probes into hard or rocky soil.	Always insert probes gently into soft, moist soil. Avoid hard or rocky areas.

Specifications

Attribute	Detail
Product Model	MS02
Functions	3-in-1: Soil Moisture, Soil pH, Sunlight Intensity
pH Range	3.5 - 8 pH (3.5-6.5 ACID, 7 NEUTRAL, 7-8 ALKALINE)
Moisture Range	1-10 (1-3 DRY, 4-7 MOIST, 8-10 WET)
Light Range	0-2000 LUX (0-200 DARK, 200-500 LOW, 500-1000 NOR, 1000-2000 HIGH)
Power Source	No battery required
Product Dimensions	11.5 x 2 x 1.5 inches (approx. 29.2 x 5.1 x 3.8 cm)
Probe Length	Approx. 7.9 inches (approx. 20 cm)
Item Weight	2.89 ounces (approx. 82 grams)
Manufacturer	Sonkir

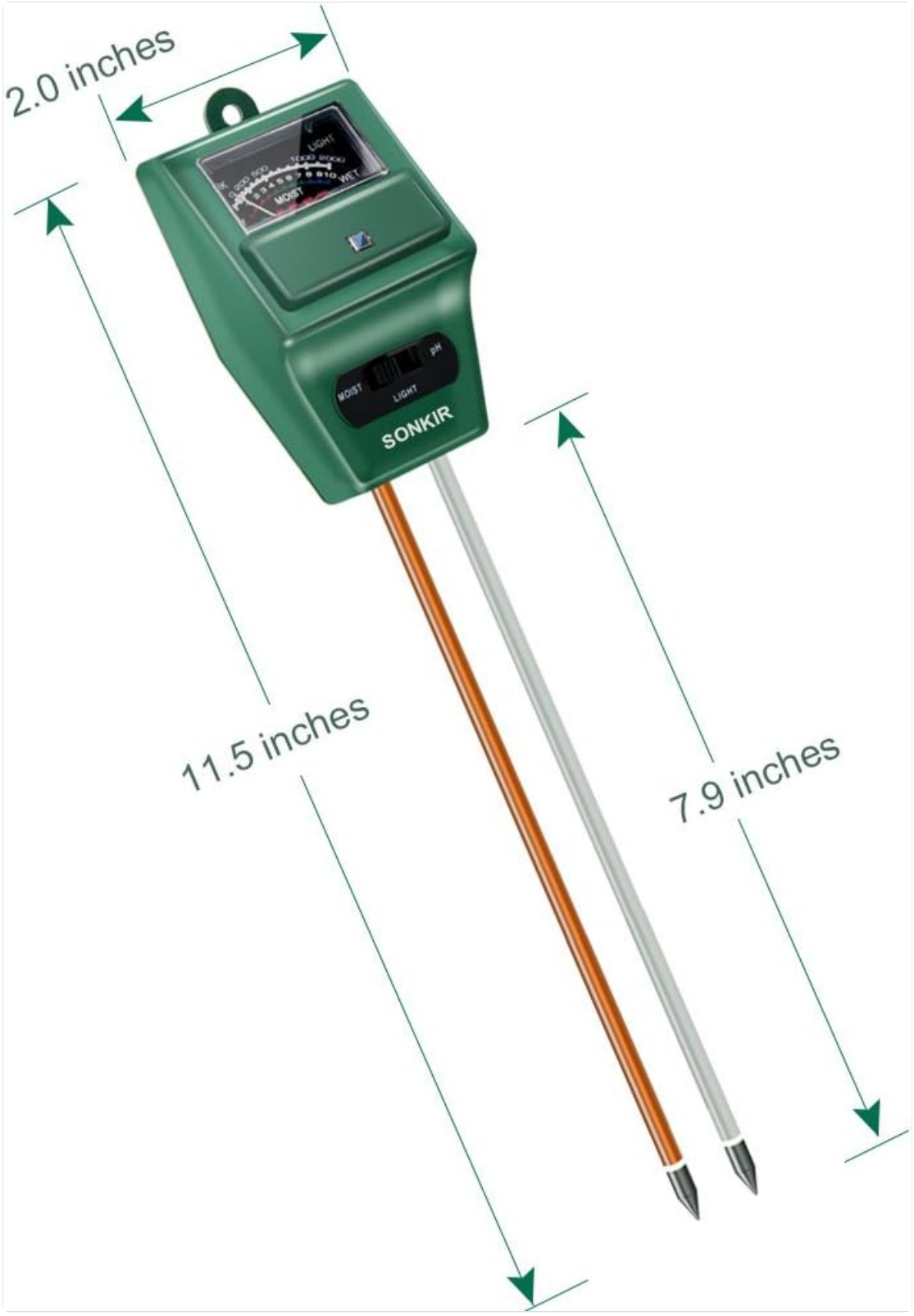


Image: A detailed diagram illustrating the physical dimensions of the SONKIR MS02 soil meter, including its overall length and probe length.

Warranty and Support

For any questions, concerns, or technical support regarding your SONKIR MS02 Soil pH Meter, please contact the manufacturer, Sonkir, directly. Refer to the product packaging or the seller's information for specific contact details. Please note that return policies are typically handled by the retailer from whom the product was purchased. For example, Amazon's return policy for this product generally allows returns within 30 days of receipt for a refund or replacement,

subject to their terms and conditions.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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