



Specifications and Operating Instructions for the:
Accurate pH 7 / ZD-05 Soil pH and Soil Moisture Meter

Specification:

Range: 3.0-8.0 pH

Resolution: 0.2 pH

Accuracy: ± 0.2 pH - Suitable for Agricultural Field and Classroom Experiments.

Operating Temp: 45-120 Degrees Fahrenheit.

Calibration: Remove oxidation from metal rings by light polishing.

Power supply: None – No batteries required

Service No serviceable parts inside. Do not disassemble. Send to manufacturer for repair.

Waterproof to 1 inch (25 mm) below moisture button only. Avoid splashing water or rainfall on or around the moisture button. Not for use in the rain.

Replacement or Repair Warranty: 12 months for defective parts and materials from date of manufacture. Proof of purchase required. Warranty does not cover submersion in liquids, storage in high humidity locations or abuse.



Operating Instructions

1. Before using the meter you must lightly polish the three metal rings on the meter's tip to remove any oxidation or oils present before first use or after storage. Use the enclosed polishing pad. Filing or grinding is not needed and will void the warranty.
2. Make sure the soil has been moist for 25-30 minutes before testing. This will assure that the soil particles can transfer the proper electro conductivity charge to the meter and all soluble elements and compounds that could change the pH of the soil are present and in reaction. Soil pH may change after the addition of fertilizer. Organic fertilizers have the tendency to create less pH change to the soil when added. Chemical fertilizers have the tendency to create more pH change to the soil when added.



3. Insert the meter directly into the soil as pictured. Break up hard soils into small particles before attempting to use the meter, as the meter is not intended or manufactured to forcibly penetrate hard soils. Make sure that the soil is above the brass colored ring on the meter but below the moisture button. Also, make sure that the soil is compacted around the rings to eliminate any air pockets and insure the meter's rings are in full contact with the soil. After ten minutes of contact with the soil the meter will show the soil's pH. Press the button to measure the soil's moisture content.
4. After each use wipe the meter down with a clean cloth. Clean and store the meter in a low humidity environment.

