Operating Instructions for the **SOIL PH AND MOISTURE TESTER**

Notes:

Soil pH value is a very important factor in the production of quality crops. Most crops cannot survive in soil that is too acid or too alkaline. Therefore the correct pH reading is essential to achieve optimum results.

Usage:

To measure the pH and moisture value of different kinds of soil.

Range: pH: 3 ~ 8 pH; Moisture: 10% ~ 80%

Resolution: 0.2 pH

Accuracy: ±0.2 pH-Suitable for agricultural field and classroom experiments.

Operating Temp: 5 ~ 50 °C
(41 ~ 122 Degrees Fahrenheit)

Calibration: Remove oxidation from metal rings by light polishing.

Instructions:

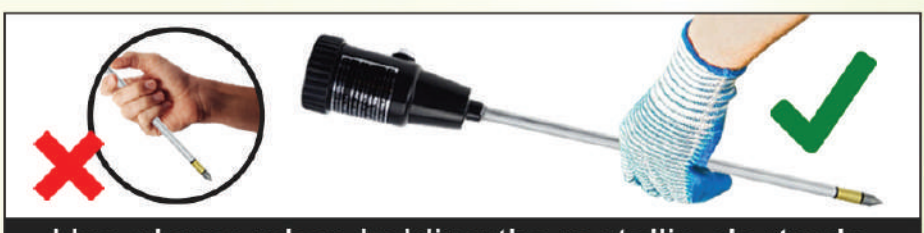
1. Remove any obstruction to the soil that requires testing, such as surface soil, grass, leaves, pebbles, etc. If the soil is dry or contains too much fertilizer, sprinkle some water onto the soil and leave for 25~30 minutes before testing.
2. Before using the tester, be sure to thoroughly clean its metallic surface with a piece of whetting cloth. When using a brand-new tester, we advise you to insert it Into the soil a few times before taking your reading. This is in order to remove any oily impurities from its metallic surface that may affect the accuracy of your soil pH or moisture reading.
3. Insert the meter directly into the soil that requires testing, embedding its metallic surface completely and tamping down the surrounding soil so that it adheres closely to the meter's metallic electrode surface. About ten minutes after inserting the meter in the soil, the pointer will indicate the correct value of pH or moisture. The meter may sometimes register different values depending on the soil condition, adhesion to the meter's metallic surface, moisture content, etc. Therefore it is advised you take an average of several measurements.
4. Press the white/green button and the pointer will indicate the correct moisture value.
5. After use, wipe the plates clean of soil or moisture.

Caution:

- Soften the soil in the spot to be tested, never force of jab meter into hard earth.
- Do not leave the metal part of the tester in the soil for too long (no longer them one hour) or it will damage the metallic surface.
- Make sure the metallic surface is clean and dry before storing.
- Do not measure liquids. This tester is not designed for measuring liquid. If liquids enter the unit and contact the circuitry, damage can occur which will not be covered by the guarantee.
- Do not attempt to remove the metal tip. If it loosens, tighten it by turning it clockwise.
- Do not use the tester near magnetic objects, and keep it away from other metallic objects.
- Do not hold the tester with fingers on metallic surface. Fingerprints are greasy and reduce the flow of current.

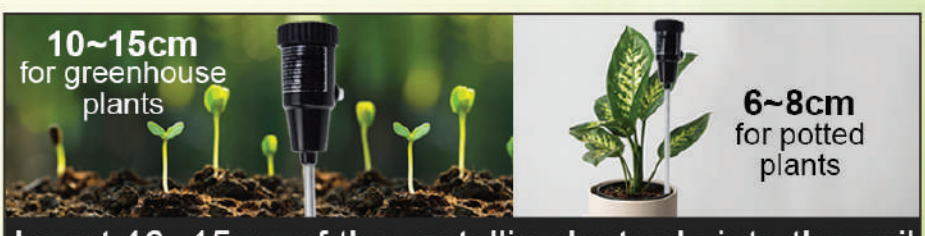
USER GUIDE

If the soil is too dry, water the soil and wait for 25~30minutes before inserting the meter.

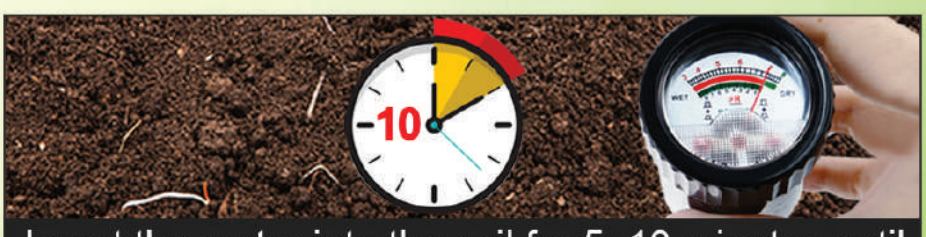


Use gloves when holding the metallic electrode, touching it with bare hands may affect its accuracy.

Insert the meter gently in a clockwise direction into the soil to prevent the tip from damaging.

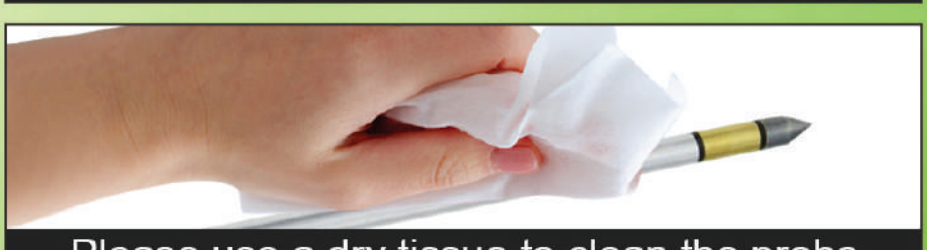


Insert 10~15cm of the metallic electrode into the soil for greenhouse plants,while 6~8cm for potted plants.

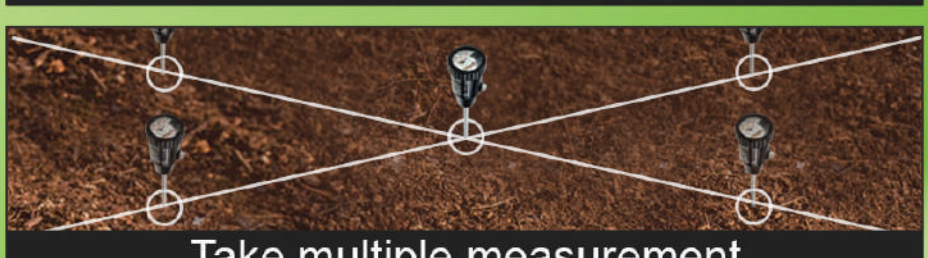


Insert the meter into the soil for 5~10 minutes until the needle is stable to obtain an accurate pH result.

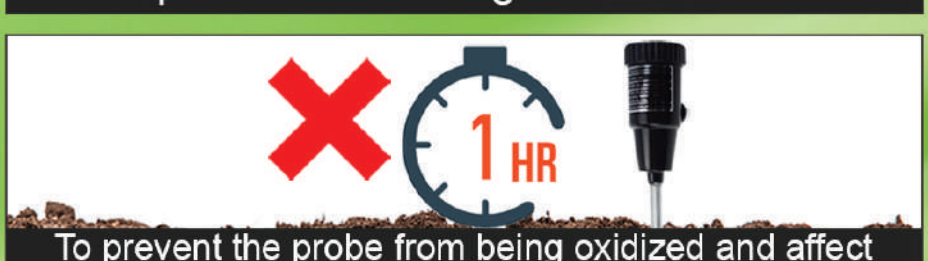
After pH value is stable, press and HOLD the button to check the moisture of the soil.



Please use a dry tissue to clean the probe after each measurement for accurate readings.



Take multiple measurement points and average the results.



To prevent the probe from being oxidized and affect the accuracy, **DO NOT** leave the meter in the soil for more than 1 hour under any circumstances.

IDEAL SOIL PH RANGE OF COMMON PLANTS

THE CHART IS FOR REFERENCE ONLY

FLOWERS IDEAL SOIL PH RANGE

CARNATION	6.0~7.0	PANSY	5.5~6.5
DAFFODIL	6.0~7.0	GERANIUM	6.0~6.5
HYACINTH	5.5~6.0	PEONY	6.0~7.5
PETUNIA	5.5~6.0	SUNFLOWER	6.0~7.5
TULIP	6.0~7.0	DAHLIA	6.0~7.5

VEGETABLES IDEAL SOIL PH RANGE

ASPARAGUS	6.0~8.0	BROCCOLI	6.0~7.0
CARROT	5.5~7.0	SPINACH	6.0~7.5
CUCUMBER	5.5~7.0	GARLIC	5.5~8.0
POTATO	4.8~6.5	PUMPKIN	5.5~7.5
TOMATO	5.5~7.5	CABBAGE	6.0~7.0
CAULIFLOWER	5.5~7.5	PEA, SWEET	6.0~7.5

FRUITS IDEAL SOIL PH RANGE

APPLE	5.5~7.0	BLUEBERRY	4.0~6.0
CRANBERRY	4.5~6.0	ORANGE	6.0~7.5
MELON	6.0~7.0	PEACH	6.0~7.0
PEAR	6.0~7.5	PLUM	5.5~7.0
RASPBERRY	5.5~7.0	LEMON	6.0~7.5

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USER MANUAL
in different languages

TUTORIAL VIDEO ON HOW TO USE