

# WATERPROOF SOIL EC AND TEMPERATURE TESTER

## USER MANUAL



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## OPERATION

1. Turn the meter on by pressing the key.
2. Place the probe (including the area within 45mm of the tip in the setting mode) at the required depth and keep the soil moist. The soil EC value will be displayed on the LCD.
3. Press the button to switch between Celsius and Fahrenheit.
4. After use, turn the meter off by pressing the key. Rinse the electrode with distilled water to minimize contamination.

## CALIBRATION

1. Turn on the meter.
2. Immerse the electrode in 1413  $\mu\text{S}/\text{cm}$  calibration solution. And stir it gently.
3. Long press button (about 5 seconds), the meter will enter automatic calibration state. Short press button, the meter will calibrate and display 1.41. Three seconds later, the meter enters the measurement state. The displayed value is consistent with the EC value of the standard buffer solution at this temperature, and the calibration is completed. If the standard buffer solution is incorrect, the meter displays Err for 3 seconds and no calibration is performed.
4. Rinse the electrode with distilled water and suck it with filter paper.
5. Immerse the electrode in 150  $\mu\text{S}/\text{cm}$  calibration solution. gently shake it and wait for a stable display. The showing value and buffer solution's value is within error range.

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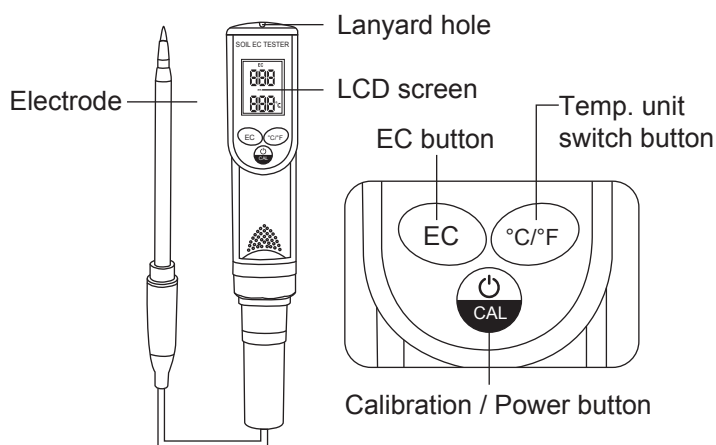
## INTRODUCTION

Measuring electrical conductivity is crucial when evaluating soil salinity. Introducing our innovative 2-in-1 EC and Temperature Tester in our new soil tester line, designed to assist farmers, agronomists, and researchers in tracking soil nutrient levels and salt content. This information is vital for maintaining plant health and promoting growth. It's the ultimate tool for agriculture, environmental research, and any field that requires soil analysis.

### Features:

- Switchable temperature unit ( $^{\circ}\text{C}/^{\circ}\text{F}$ )
- Easy calibration procedure
- Battery strength indicator
- IP67 Waterproof level
- Lightweight and portable
- Clear display with a user-friendly interface

## PARTS DESCRIPTION



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6. Rinse the electrode with distilled water and suck it with filter paper. The calibration is now complete.

## SPECIFICATIONS

	Range	Resolution	Accuracy
EC	0~4.00mS/cm	0.01mS/cm	$\pm 2\%$ F.S
Temperature	0 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ ~122 $^{\circ}\text{F}$ )	0.1 $^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$ ( $\pm 2^{\circ}\text{F}$ )
ATC	0 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$		
Power Supply	2 $\times$ 1.5V (AAA)		
Operating Temperature	0 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$		
Calibration	1 point with auto buffer recognition		
Dimensions	207mm $\times$ 32mm $\times$ 36mm		
Weight	85g		

## BATTERY REPLACEMENT

When the low voltage battery character appears on the display screen, it means that the battery is low and should be replaced. When replacing the battery, open the rear battery cover, remove the old battery and replace it with a new one. Pay attention to the polarity of the battery. It is better to take out the battery if it is not used for a long time.

## WARRANTY

These instruments are warranted from all defects in material and manufacturing or a period of one year from the date of purchase. If during this period, the repair or the replacement of parts are required where the damage is not due to negligence or erroneous operation by user, please return the parts to either dealer or our offices, and the repair will be effected free of charge.

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