



## EC-315 Waterproof Soil EC and Tester

### **Specifications**

Measuring range  
EC: 0~4.00mS/cm  
Temp: 0°C~50°C (32°F~122°F)  
Resolution  
EC: 0.01mS/cm  
Temp: 0.1°C  
Accuracy  
EC:  $\pm 2\%$  F.S  
Temp:  $\pm 1^\circ\text{C}$  ( $\pm 2^\circ\text{F}$ )  
Automatic Temperature Compensation  
0°C~50°C  
Power Supply  
4  $\times$  1.5V (AG13)  
Operating Temperature  
0°C~50°C  
Calibration  
Manual, at one point through trimmer  
Dimensions  
280mm  $\times$  35mm  $\times$  35mm  
Weight  
100g

### **Operating Information**

1. Remove the protective cap.
2. Turn the meter on by pressing the ON key.
3. Place the probe to the desired depth and saturate the soil if needed with deionized water. Or immerse the electrode in the solution to be tested.
4. Waiting for the reading to stabilize.
5. Press the "°C/°F" button to switch between Celsius and Fahrenheit.
6. After use, turn the meter off by pressing the OFF key. Rinse the electrode with distilled water. Dry off.

### **Calibration**

1. Turn on the meter.
2. Suspend the probe and place the probe in 1413 $\mu\text{S}/\text{cm}$  calibration solution. The probe tip should be centered in the solution and submersed 2"(5cm). The probe should be kept at least 1"(3cm) from the walls and bottom of the beaker.

3. Unscrew the battery compartment cap on the top of the meter.
4. Allow the reading to stabilize and with a small screwdriver turn the calibration trimmer until the display shows "1.41".
5. Rinse the probe with distilled water and suck it with filter paper.
6. Suspend the electrodes and place the electrode 150 $\mu\text{S}/\text{cm}$  calibration solution. waiting for a stable display. The showing value and buffer solution's value is within error range.
7. Rinse the probe with distilled water and dry off it with filter paper.  
The calibration is now complete.  
Note: The used instrument, it should be calibrated with a solid standard.

### **Battery Replacement**

If the meter can not be switched on or the display fades, please check the voltage of power supply (replace the batteries when the voltage is lower than 4.5V). To replace the batteries unscrew the battery compartment cap and replace all four 1.5V batteries while paying attention to their polarity.