

PH AND CONDUCTIVITY MONITOR

User Manual



English and Deutsche
Languages



NOTE:

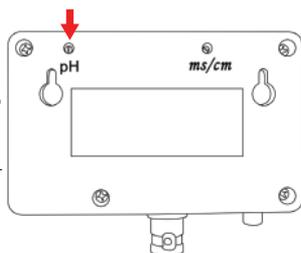
1. When turn on the meter, the back-lit LCD will light for about one minute then it automatic extinguish slowly. if you need the back-lit LCD light, press the "LIGHT" key.

2. Please use this monitor away from electronic ballast.

CALIBRATION

PH CALIBRATION

1. Prepare some distilled water and standard pH buffer solution of pH6.86 (or pH7.00) & pH4.01(or pH9.18),
2. Pour some pH6.86 (or pH7.00) & pH4.01(or pH9.18) & distilled water into separate clean containers,
3. Turn on the meter,
4. Rinse the pH electrode first with distilled water and dry it with filter paper (not included).
5. Immerse the pH electrode in pH6.86 (or pH7.00) buffer solution, gently shake it to remove the bubbles and wait for a stable display. Regulate the pH trimmer with the screwdriver provided until the display shows "6.86" ("7.00") at buffer solution temperature of 25°C.
6. Rinse the pH electrode again with distilled water, and dry it with filter paper (not included).
7. Immerse the pH electrode in pH4.01 (or pH9.18) buffer solution, wait for about one minute until the display shows "4.01" (or "9.18") at buffer solution temperature of 25°C.
8. The pH calibration is now complete.



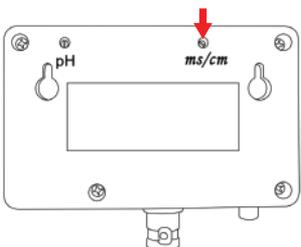
NOTE

The meter should be recalibrated under following situations:

1. The meter has been used(laid) for long time from the last calibration.
2. The meter has been used in particularly taxing conditions.
3. The utmost accuracy is required.

EC CALIBRATION

1. Dip the EC electrode into the distilled water for a few hours to activate it before calibration.
2. Pour some EC calibration solution(12.88ms/cm at 25°C) into a clean container,
3. Immerse the EC electrode in the EC calibration solution (12.88ms/cm at 25°C), gently shake it to remove the bubbles and wait for a stable display. Regulate the EC trimmer with the screwdriver provided until the display

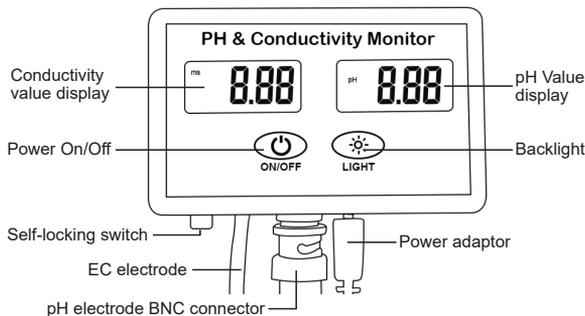


ENGLISH

INTRODUCTION

The monitor is ideal for seawater, horticultural and hydroponics applications where pH and EC levels need to be continuously monitored for optimal plant growth. The continuously monitor and display the pH and EC values of a solution on an easy to read in one LCD's. It is compact and easy to install and use. This makes them ideal for all continuous monitoring applications.

PARTS



OPERATION

1. Connect the pH electrode to the meter and remove the protective cap.
2. Connect the power adaptor to the meter and press the **main button** (which is at the bottom of meter) to open the self-locking switch.
3. Turn the meter on by pressing the "ON/OFF" key.
4. Immerse the electrodes in the solution to be tested. Stir gently and wait for the reading to stabilize.
5. After use, turn off the meter. Rinse the electrode with distilled water to minimize Contamination and dry it with filter paper. Put back the protective cap.



- shows "12.88" at buffer solution temperature of 25°C.
4. Rinse the electrode again with distilled water, and dry it with filter paper.
5. **(Optional)** Immerse the EC electrode in 1.43ms/cm calibration solution(or other standard EC calibration solution), wait for about one minute until the display value is the same as the buffer solution's value(within error range is acceptable) at buffer solution temperature of 25°C.
6. The EC calibration is now complete.

IMPORTANT NOTICE

1. Stir gently the electrode when operating. Don't let some bleb on the electrode.
2. To guarantee the accuracy, please don't re-calibrate it optionally.
3. In case of abnormal phenomena such as high measured deviation, blinking measured value, no zero resetting, etc, please immerse the electrode in alcohol for cleaning.

BATTERY RECHARGE

If you do not use the power adaptor for power supply, the battery symbol will appear on the display when it is low battery. Please connect the power adaptor and press the button (which is at the bottom of meter) to close the self-locking switch. It will begin to be charge the battery. Please be noted that the battery will not be charged if you open the self-locking switch, but the meter can be go on with worked.

SPECIFICATIONS

Measurement range	PH: 0.00 ~14.00 pH EC: 0 ~ 19.99ms/cm
Resolution	PH: 0.01 pH EC: 0.01ms/cm
Accuracy	PH: ±0.1 PH EC: +2% F.S
Operating Temperature	0°C ~ 50°C
Temperature Compensation	0°C ~ 50°C
Power Supply	DC6V
Dimension	88mm 55mmx 22 mm
Weight	135g

WARRANTY

These instruments are warranted from all defects in material and manufacturing for a period of one year from the date of purchase.

If during this period, the repair or the replacement of parts is 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.