PH and ORP Controller WiFi BNC Probe Water Quality Tester for Hydroponics Pool Aquarium Model:PH-803W User's Manual



Operation:

- 1. Connect the AC power supply (make sure the voltage is correct.)
- 2. Connect the PH and ORP electrodes to the respective input terminal sockets.
- 3. Remove the protective cover and observe if the electrode is clean and complete (Note: Do not touch the electrode with your hands).
- 4. After cleaning the electrode with distilled water or alcohol, dry the water in the plastic housing and shake the small drops on the electrode, put the device into the tested solution so that the measuring electrode is immersed in the tested solution, and the depth of immersion of the electrode should not exceed the length of the electrode.
- 5. Put the electrode into the measured solution to be tested.
- 6. Gently shake the device so that the small bubbles on the electrode leave the electrode and the reading number display is stable when the value is stable.
- 7. After use, turn off the power supply, clean the electrodes with clean water and put on the protective cover.
- 8. It needs to be used for a long time, and the device and electrode must be repaired.



REAL TIME MONITORING

Through Wi-Fi network settings, you can check the valid data status and water quality changes from your mobile phone anywhere







WIFI MOBILE PHONE CONNECTION, REAL-TIME MONITORING DATA

Long press Esc to enter WiFi network configuration mode. The device can connect to the Internet through a mobile application.





- 1. [a] ——WiFi Settings and ESC features.
- 2. [b] ——Automatic calibration, reading plus one and upper and

lower limit adjustment.

- 3. [c] The confirmation button.
- 4.[d]—Enter the upper and lower limits settings and cursor shift.
- 5. [e]——Automatic calibration,The reading is reduced by one and

the upper and lower limits adjustment.

6.[f]—Enter the upper and lower limits settings and cursor shift.

Calibration:

pH calibration:

a. In pH6.86 calibration solution

- 1. Connect AC power supply. Soak the pH electrode in the pH 6.86 buffer solution, and shake gently until the reading stabilizes.
- 2. Long press [b], until the indicator light flashes "pH". PH6.86 is displayed on the first line.
- 3.(1) Short press [a] to exit the current mode if the ph6.86 calibration is not performed. Then the device returns to measurement mode.
 - (2) Short press [c] to complete the pH 6.86 calibration when the second line reading is stable if a
- pH 6.86 calibration is performed. Then the device automatically returns to measurement mode.
- 4. pH6.86 calibration is complete.

B. In calibration solution pH4.00

1. Connect the AC power supply. Immerse the pH electrode in the pH 4.00 buffer solution, and gently

shake until it reads to stabilize.

- 2. Long press [e], until the indicator light flashes "pH". pH 4.00 is shown in the first line.
- 3.(1) Short press [a] to exit current mode if pH 4.00 calibration is not performed. Then the device returns to measurement mode.

(2) Short press [c] to complete the pH 4.00 calibration when the second line reading is stable if a ph4.00 calibration is performed. Then the device automatically returns to measurement mode.

4. pH 4.00 calibration is complete.

ORP Calibration:

This meter has been accurately calibrated for various mV at the factory. And there is no need for the user to calibrate.

Packing List:

- 1 x Dual Aquarium Controller for pH and ORP
- 1 x Detachable pH Electrode 300cm
- 1 × Detachable ORP Electrode 300cm
- 2 x Rubber Cable Holders with Suction Cup
- 1 x Metal Wall Hangers
- 1 x Mini Screwdriver
- 1 × English Manual language



Notes for PH-803W:

1. The electrode must be calibrated with a standard buffer solution with a known ORP value prior to measurement.

- 2. The electrode socket must be very marked and dry.
- 3. Before and after measurement, the electrode should be cleaned with deionized water to ensure measurement accuracy.
- 4. The electrode will be passive after long-term use. These phenomena are that the sensitivity gradient decreases, the response becomes slow, and the reading is inaccurate. At this time, the platinum sheet at the bottom of the electrode can be immersed in 0.1M dilute hydrochloric acid for 24 hours, and then use Mkcl 3 solution. Soak in the medium for several hours to restore performance.
- 5. Electrode contamination or clogging of the liquid junction will also passivate the electrode. At this time, it should be cleaned with an appropriate solution according to the nature of the pollutant. See below (for reference) for details.
- A. Contaminant cleaning agents
- B. Inorganic metal oxides
- C. Dilute hydrochloric acid less than 1M
- D. Organic oils and fats
- E. Dilute polymer resin detergents dilute alcohol, acetone, ether, blood cell protein acid precipitate enzymes solution
- F. Diluting pigment substances bleach, hydrogen peroxide
- 6. The electrode life cycle is about one year, and the new electrode should be replaced in time after aging.

