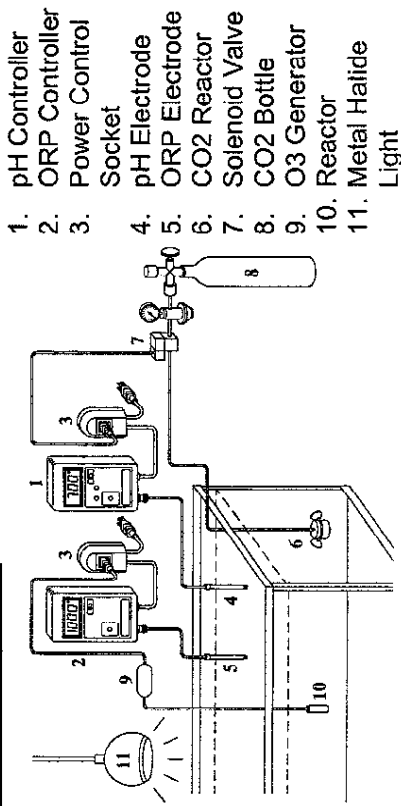


GENERAL SPECIFICATION

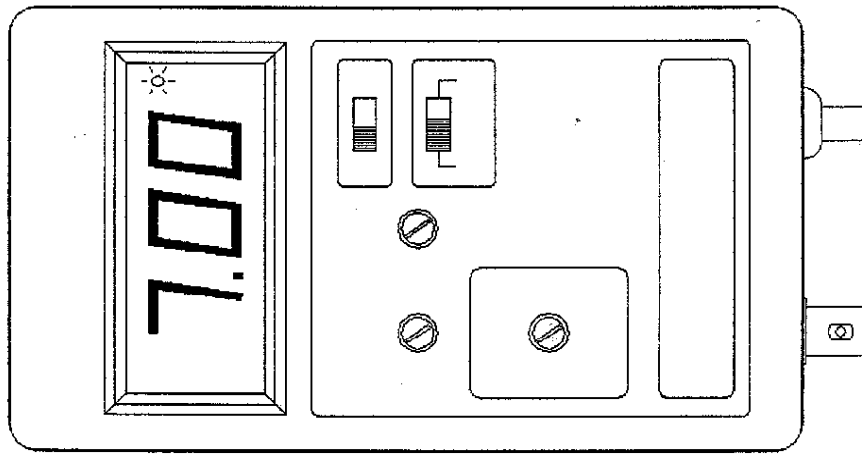
- Measurement : 0 to 14 pH / -1999 to +1999 mV
Resolution : 0.01 pH / 1 mV
Accuracy at 25°C : $\pm(0.1\% + 2 \text{ digits})$ after calibrating
Impedance : 10^{12} ohms
Set Range : 3.5 to 10.5 pH / -500 to 500 mV
Calibration Knob : External pH7 (CAL.) and pH4 / pH10(SLOPE)
Relay Contact : 5A for 240VAC
Control Output Voltage : Same as plug in AC voltage
Display : 0.56" LED, 3 1/2 digits
Operating Temperature : 0 to 50°C (32 to 122°F)
Operating Humidity : Max. 90%
Power Supply : Please refer to back side of instrument.
(AC100V, AC110V, AC220V, AC240V indicator when order)
Power Consumption : Approx. 2 watts
Dimension : 150 x 85 x 40 mm (5.9 x 3.4 x 1.6 inch)
Standard Accessories : Instruction manual 1 pc.

APPLICATIONS



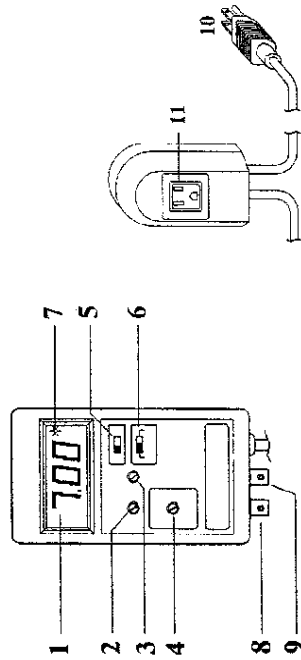
AFTER SERVICE CENTER

OPERATION MANUAL DIGITAL pH-ORP CONTROLLER



Before putting the pH controller to use, please check the local power voltage, and read this manual carefully.

FRONT PANEL DESCRIPTION



- 1) Display
- 2) pH7 calibrate adjustment knob
- 3) pH4 slope adjustment knob
- 4) Set adjustment knob
- 5) Measure/SET function switch
- 6) pH/ORP mode switch
- 7) Indicator of output in action
- 8) pH electrode BNC input terminal
- 9) ORP electrode BNC input terminal
- 10) Power plug
- 11) Control output power socket

OPERATING (pH CALIBRATION)

- 1) Connecting AC power supply. (Make sure the correct voltage.)
- 2) Connecting the pH electrode into the pH input terminal socket.
- 3) Slide the M/SET switch to "M" position.
- 4) Put the pH electrode into the standard buffer solution pH7.00. Waiting for a few seconds and adjust the "pH7" knob until the display reading exact 7.00.
- 5) Take away the pH electrode from buffer solution, and clean the electrode with fresh water.
- 6) Put the pH electrode into the standard buffer solution pH4.00, Waiting for a few seconds and adjust the "pH4" knob until the display reading exact 4.00. (You also can calibrating pH10.00 use the buffer solution pH10.00 instead of pH4.00 buffer solution.)
- 7) Take away the pH electrode from buffer solution, and clean the electrode with fresh water. (Make sure doing the step 1 to 7 for calibrating when put a new pH electrode to use.)
- 8) Put the pH electrode into the water what you want to measure and control the pH value. (We usually control the CO₂ to lower the pH value of the water plant tank.)

pH VALUE SETTING

- 1) Slide the pH/ORP switch to "pH" position, and M/SET to "SET" position.
- 2) Adjust the "SET" knob until the display reading exact your requirement.
- 3) Slide the M/SET function switch to "M" position for measuring.
- 4) Put the pH electrode (after calibrating) into the water what you want to control the pH value. The pH controller is working under setting now.

ORP VALUE SETTING

- 1) Slide the pH/ORP switch to "ORP" position, & M/SET to "SET" position.
- 2) Adjust the "SET" knob until the display reading exact your requirement.
- 3) Slide the M/SET function switch to "M" position for measuring.
- 4) Put the ORP electrode into the water what you want to control the ORP value. The ORP controller is working under setting now.

CLEANING AND MAINTENANCE

- 1) It must to pull out the power plug (turn off) when cleaning the controller.
- 2) Please wipe the housing with drying when cleaning, do not wipe with wetting.
- 3) It had better to calibrate the pH electrode during 2-4 weeks to make sure the reading within accuracy when measuring in a long time.

REMARK

- 1) The function only pH or ORP in measuring and control in the same time.
- 2) There is a protection "dead band" for output in action. The control output in action when the pH measuring value goes above the set value 3-5 digits (ORP measuring value below the set value 3-6 digits). The control output off when the pH measuring value below the set value 3-6 digits (ORP measuring value goes above the set value 3-6 digits).
- 3) The control output off when slide the M/SET function switch in "M" position for adjusting the setting valve.
- 4) In door use only.



Electrode input BNC terminal should plug in pH or ORP electrode only.



Please use this pH controller away from the electronic ballast