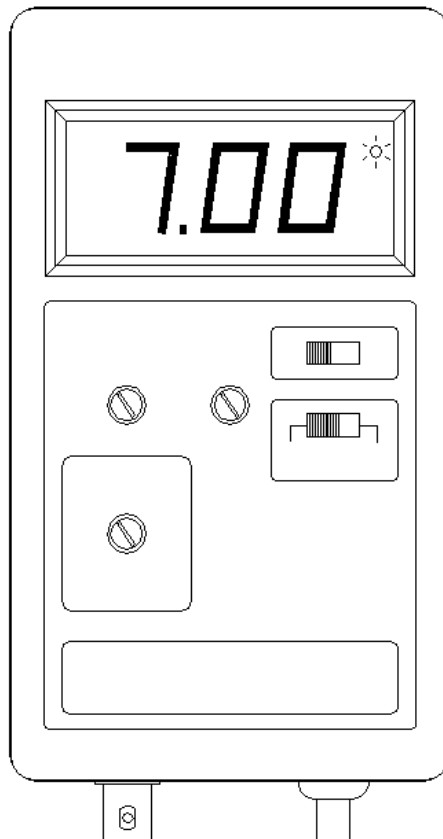
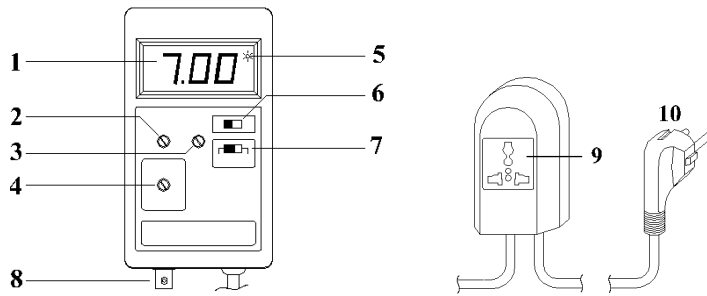


OPERATION MANUAL
DIGITAL pH CONTROLLER
(WITH HI/LO ACTION OPTIONAL)



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) Indicator of output in action
- 6) pH/SET function switch
- 7) HI/LO action function switch
- 8) pH electrode BNC input terminal
- 9) Control output power socket
- 10) Power plug

OPERATING (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 pH/SET switch to "pH" 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 SETTING

- 1) Slide the pH/SET switch to "SET" position.
- 2) Adjust the "SET" knob until the display reading exact your requirement.
- 3) Slide the pH/SET function switch to "pH" position for measuring.
- 4) Slide the HI/LO switch to "HI" position while the control output in action when pH measuring value goes above the set value. Slide the HI/LO switch to "LO" position while the control output in action when pH measuring value below the set value.
- 5) Put the pH electrode (after calibrating) into the water what you want to control the pH value. Now, the pH controller is working under your setting.

INSTRUCTION FOR 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) 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. The control output off when the pH measuring value below the set value 3-5 digits. (HI/LO switch in "HI" position.)
- 2) The control output off when slide the pH/SET function switch in "SET" position for adjusting the setting valve.
- 3) In door use only.



Do not sock the electrode cap in water.



pH electrode input BNC terminal should plug in pH electrode only.

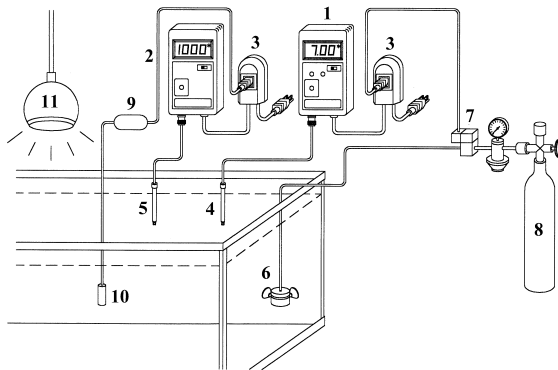


Please use this controller away from the electronic ballast.

GENERAL SPECIFICATION

Measurement : 0 to 14 pH
Resolution : 0.01 pH
Accuracy at 25°C : $\pm(0.1\% + 2 \text{ digits})$ after calibrating
Impedance : 10^{12} ohms
Set Range : 3.5 to 10.5 pH
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 $\frac{1}{2}$ digits
Operating Temperature : 0 to 50°C (32 to 122°F)
Operating Humidity : Max. 90%
Power Supply : AC100V, AC110V, AC220V, AC240V 50/60 Hz
(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



1. pH Controller
2. ORP Controller
3. Power Control Socket
4. pH Electrode
5. ORP Electrode
6. CO2 Reactor
7. Solenoid Valve
8. CO2 Bottle
9. O3 Generator
10. Reactor
11. Metal Halide Light

AFTER SERVICE CENTER