

OPERATION MANUAL



PH-201 DIGITAL PH CONTROLLER
(WITH HI/LO ACTION OPTIONAL)

Technical Specification

Measuring Range: 0.00 ~ 14.00PH

Resolution: 0.01PH

Accuracy: $\pm 0.1\% + 2$ digits

Input Resistance: $10^{12} \Omega$

Set Range: 3.50 ~ 10.50PH

Relay Contact: 5A/240VAC

Calibration: double points

Display: 4 LED display reading

Power Supply: AC 220V

Environment: Temperature: 0 ~ 50°C,

Humidity < 95%

Power Consumption: 2 watts

Dimension: 150mm x 85mm x 42mm

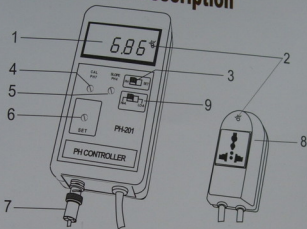
(5.9 x 3.4 x 1.6 inch)

Weight: 580g

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Front Panel Description



1.Display

2.Indicator of output in action

3.[PH/SET] function switch

4.PH7 calibrate adjustment knob

5.pH4 calibrate adjustment knob

6.Set adjustment knob

7.pH electrode input terminal

8.Control output power socket

9.[HI/LO]action function switch

Operating Information(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) Immerse the electrode in a PH6.86 buffer solution. Waiting for a few seconds and adjust the 'CAL' knob until the display reading exact 6.86.
- 5)Take away the PH electrode from buffer solution, and clean the electrode with fresh water.
- 6) Immerse the electrode in a PH4.01 buffer solution. Waiting for a few seconds and adjust the 'SLOPE' knob until the display reading exact 4.01.
- 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 a new PH electrode.)
- 8)Put the PH electrode into the measured solution.

Note: The instrument's pH range must be recalibrated whenever:

- Approximately one month has passed from the last calibration
- The utmost accuracy is required
- Replacing the new electrode

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.
- 4) Slide the [HI/LO] switch to 'HI-A' position while the control output in action when pH measuring value goes above the set value. Slide the [HI/LO] switch to 'LO-A' position while the control output inaction when pH measuring value below the set value.

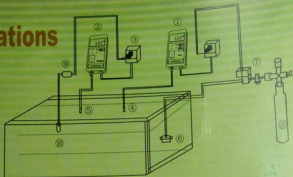
Remark (Instruction For Cleaning And Maintenance)

- 1) There is a protection 'dead band' for output it 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.(When slide HI/LO switch in 'HI' position.)
- 2) The control output will be automatic turned off when slide the [PH/SET] function switch in 'SET' position while adjusting the set valve.
- 3) It must to pull out the power plug(turn off)when cleaning the controller.

- 4) Please wipe the housing with drying when cleaning, do not wipe with wetting.
- 5) It had better cleaning the pH electrode sensor with soft brush and calibrate the pH electrode during 2-3 weeks to make sure the reading within accuracy when measuring in a long time.
- 6) In door use only.

NOTE: Please use this controller away from electronic ballast.

Applications



- 1. PH CONTROLLER
- 2. ORP CONTROLLER
- 3. POWER PLUG & CONTROL OUTPUT
- 4. PH ELECTRODE
- 5. ORP ELECTRODE
- 6. CO₂ REACTOR
- 7. SOLENOID VALVE
- 8. CO₂ BOTTLE
- 9. O₃ GENERATOR
- 10. REACTOR