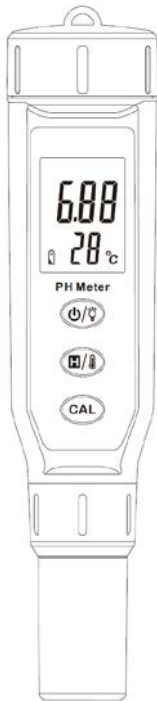


PH Meter

Model No.: **PH2022+**



Questions or Concerns?

Please email support@poniie.com

A. Introduction

Thank you for purchasing Ponii pH meter. With easy calibration, you're able to effortlessly measure pH levels for accurate and dependable results. After calibration, there is no hassle to set-up needed for future uses. Handy around the house, this pH meter can be used to measure levels for aquariums, beverages and swimming pools. It's smart, safe and simple.

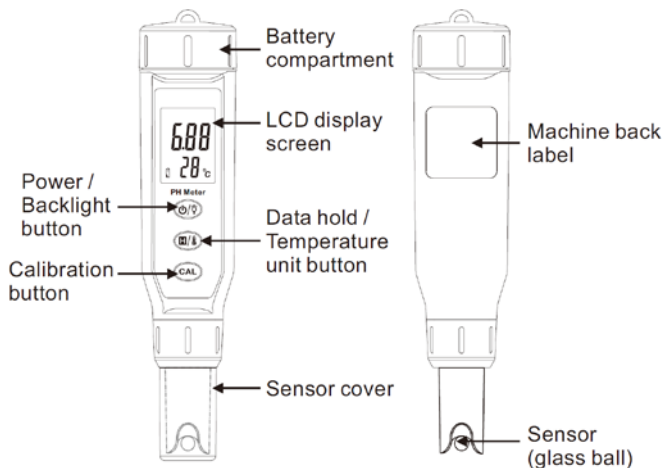
Features

- waterproof pen-type digital pH meter
- automatic temperature compensation (ATC)
- with Backlight & Data Hold function
- low battery indication
- auto off function (10 mins)

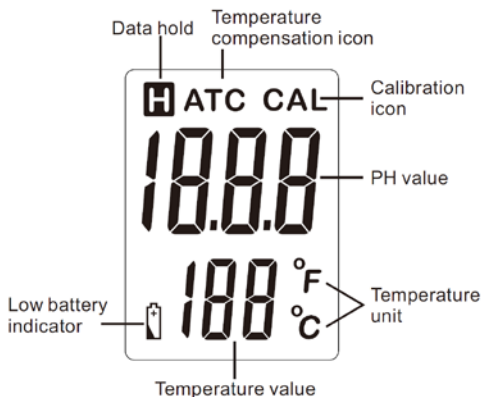
B. Safety Use & Care

- 1) Before first use, please make an appropriate amount of storage liquid into the sensor cover and soak the sensor completely for 2 hours.
- 2) Calibrate the pH meter before first use with the buffer powders included in the packaging.
- 3) Avoid dropping or exposing sensor bulb with heavy impact. DO NOT use direct tap water to clean the sensor, in case any damage.
- 4) DO NOT use anything other than soft tissue paper to clean the bulb.
- 5) Always put on the sensor cover when pH meter is not in use.



C. Function Diagram



D. LCD display





Display instruction


[]	The reading is locked, and the data will remain unchanged
[ATC]	Calculation after temperature compensation
[CAL]	Entering calibration model
[Lo]	PH value is lower than 0
[Hi]	PH value is above 14
[NUL]	No sensor connection detected
[] flickering	Low power, the product will automatically shut down if the state of low power lasts for long, please replace the battery in time

E. Setup & Calibration


1) Power ON/OFF

Short press on the button  to turn on the meter, hold & press on  to turn it off.

2) Backlight & Auto OFF

Backlight is turned on by default. Short press  to turn it off. Note: Backlight will turn off automatically if there is no operation for about 1 minute. Device will turn off automatically if there is no operation in 10 minutes.

3) Data Hold function

Short press on the button  and then [H] will display on the screen, which means that PH value has been locked. Press again to unlock data.

4) Temperature unit

Hold press the button / to switch unit between °C/°F.

5) Calibration

Before first use, please use storage solution to activate electrode. Please refer to safety use & care for more details.

(1)Two point auto-calibration

SA1:PH=6.86/ 6.86

SA2:PH=4.00/ 4.00

Automatic calibration --- automatically identify the calibration solution in sequence of 6.86-4.00.

1) Power on pH meter, hold & press the button **CAL**, the LCD will display [CAL] and flash [SA1] at the same time.



2) Putting sensor into PH=6.86 solution (the glass bulb should be submerged completely), short press **CAL**, the ADC value (a 3 digital number) will be displayed.

3) Wait for the ADC value to stabilize (stir gently for a few seconds) and register this value by short pressing the **CAL** again (or wait for 3 minutes to auto-calibrate this point). Remove the sensor from this solution and clean bulb with distilled water at least 1 minute, then wipe it gently with a soft tissue paper. 4) When the LCD flashes [SA2], put the sensor into the PH=4.00 solution. Short press **CAL**, the ADC value will be displayed. Wait for the ADC value to stabilize and register it by short pressing the **CAL** again (or wait for 3 minutes to auto-calibrate). When complete the calibration it will display [End]. Wait for

about 1 minute, it will exit calibration automatically. Note: If [Err] appears, it means that the buffer solution is in wrong order or the sensor is wrong. It is necessary to quit and recalibrate the meter again.

(2) Three point calibration

SA3: PH=9.18/ 9.18 (Note: alkaline buffer is not included, if you want to test high alkaline solution, you may need to do three point calibration to get more accurate result.)

Before SA3 point calibration, a two point (SA1, SA2) calibration is required. After two point calibration, hold & press **CAL** button, LCD will display [CAL] and flash [SA1] at the same time, short press / and switch to [SA3]. With corresponding pH 9.18 buffer solution and press the **CAL** button briefly to display the ADC value. Wait for the ADC value to stabilize, and short press **CAL** again to register single point value. The calibration will finish automatically.

F. Technical parameters

PH measure range	0.00-14.00
PH resolution	0.01
PH accuracy	0.05
Temperature range	0~60°C (32~140°F)
Temperature accuracy	1.0°C
Power supply	LR44 1.5V * 3
Ambient Humidity	<85% RH

G. Frequently Q & A

1) When not in use, am I supposed to keep the electrode dry or dipped in water?

A: Please do not keep the probe dry or in water. To get the best performance and extended meter's life, it is best to keep it in potassium chloride storage solution. It is the same chemical that is inside the glass probe so an equilibrium is established. If you use just water, the potassium chloride will eventually leach out and make the probe unstable.

2) Can the calibration fluid be reused?

A: Yes. The 250ml calibration solution can be divided into several parts, one for each calibration, the remaining calibration solution should be sealed and put in a place of 10-20 degrees Celsius and away from light, which can be stored for 3-6 months.

3) Do you have to calibrate it before every time you use it?

A: It depends, when the product has not been used for more than 2 weeks, it should be calibrated. When the product has been used for more than half an hour a day for a consecutive month, it also should be calibrated again.

4) Is there any way I can use this to test soil pH?

A: Not recommend. Typically you can test soil pH by pouring water into a pot containing the soil in question and test the water that comes out the bottom. This method will allow you to adjust your nutrient

solution pH to exactly what your plants need, usually between 5.5 and 6.5 to avoid nutrient lock out.

Note: There may have some salt residue or liquid in the sensor cover, this do not mean meter is not in new condition, all units will be factory tested and calibrated before go out.

H. Package Contents

- 1 x Ponii pH Meter
- 2 x KCl Storage Solution
- 3 x Pouch of pH 6.86 Buffer Powder
- 3 x Pouch of pH 4.00 Buffer Powder
- 1 x Portable Toolkit Box
- 1 x User Manual

Specific Declarations:

Ponii shall hold no any responsibility of results output from this product as a direct or indirect evidence.

We reserves the right to modify product design and specification without notice.