

## PHB-3 Pocket pH Tester Instruction Manual

### 1. Brief Introduction

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Thank you for purchasing APERA INSTRUMENTS' PHB-3 Pocket pH Tester. This tester is simply the most economical choice of a reliable pocket pH tester for your regular liquid's pH measurement, including hydroponics, aquaculture, pools & spas, home brewing, education, tap/drinking water, etc.

### 2. Specifications

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- 1) pH Range: 0 ~ 14.0 pH
- 2) Resolution: 0.1 pH
- 3) Accuracy:  $\pm 0.1$  pH,  $\pm 1$  digit
- 4) Automatic calibration: 1-point calibration (pH 7.00)
- 5) Power: 2 AAA Batteries, for 1000 hours of use
- 6) Dimension and Weight: 39×25×176 mm / 87 g
- 7) Waterproof rating: IP57

### 3. Instructions

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1) Calibration: Rinse the probe in distilled water and dry it. Dip the probe in the standard buffer solution pH7.00. Stir gently, hold still, and wait for the reading to become stable. Then press the CAL button for two seconds until **CAL** appears on the screen. When the calibration value **7.0** flashes, the calibration is complete and **END** will appear on the screen.

2) Measurement: Rinse the probe in distilled water and dry it. Dip the probe in the sample solution. Stir gently and wait until you receive a stable reading.

3) After measurement, rinse the probe with distilled water, dry it, and put the protection cap back on.

### 4. Notes

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1) The instrument can be continuously used for 1 to 2 weeks (or longer) after calibration.

2) The sponge in the protection cap should always be kept wet by adding a few drops of distilled water in order to keep the probe activated.

3) To ensure the reliability of calibration, pH standard buffer solution should be replaced once it becomes contaminated.

4) Maintenance is necessary for the head of the probe because it can become contaminated after long-term use. To do the maintenance, wash the bulb and surrounding area with a small soft brush and soap water. Then rinse the bulb with distilled water, and redo calibration after several hours.

5) The instrument will be power off automatically without operation after 10 minutes.

6) Replace the batteries when  appears on screen.

## 5. Warranty

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We warrant this instrument to be free from defects in material and workmanship and agrees to repair or replace free of charge, at option of APERA INSTRUMENTS, LLC, any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS, LLC for a period of **two years** from the delivery (a **six-month** limited warranty applies to probes). This warranty does not apply to defects resulting from actions such as misuse (violation of the instructions in this manual or operations in the manner not specified in this manual), improper maintenance, and unauthorized repairs. Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the tester or probe.

\*Apera Instruments reserves the right to update the information in this manual without giving advanced notice.

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