

SX620 pH Pen Tester Instruction Manual

1. Brief Introduction

Thank you for purchasing APERA INSTRUMENTS SX620 pH Pen Tester. This product is featured with reliable and accurate measuring performance with a single-button operation in a slim body. Ideal for measuring pH in regular water solutions, including hydroponics, aquaculture, water treatment, pools & spas, cooling towers, beverage making, body fluid (e.g. urine, saliva). The pH probe is replaceable and suitable for test tube measuring and other small-volume sample testing.

2. Specifications

- 1) Measuring Range: -1 to 15.00 pH; Temperature: 0 to 60°C
- 2) Resolution: 0.01 pH; Temperature: 0.1°C
- 3) Accuracy: ± 0.01 pH, ± 1 digit; Temperature: $\pm 0.5^\circ\text{C}$
- 4) Automatic calibration: 1-3 point calibration (pH 7.00, pH4.00, pH10.01)
- 5) Power: 2 x CR2032 Cell Batteries
- 6) Dimension and Weight: 148*29*14mm / 43g
- 7) Waterproof rating: IP57

3. Instructions

- 1) Calibration: Rinse the probe in distilled water and dab off excess water with tissue paper. 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 about two seconds until **CAL** appears on the screen. When the calibration value **7.0** flashes, the calibration will finish after several seconds, and the meter will return to measurement mode and the icon (M) will appear on the screen.
- 2) Rinse the probe in distilled water and dab off excess water with tissue paper. Dip the probe in the other standard buffer solution (pH4.00 or pH10.01) to complete calibration according to the steps in 1). Icon (L) will appear when pH 4.00 is calibrated, and icon (H) will appear when pH 10.01 is calibrated.
- 3) 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.
- 4) After measurement, rinse the probe with distilled water, dry it, and put the protection cap back on. It's a good practice to pour a bit storage solution that comes with kit into the protection cap when storing the meter, since it will help keep the accuracy of the pH probe.
- 5) Temperature Unit Switch: When meter is turned off, hold the CAL button until the meter reboots and then the temperature unit will be switched ($^\circ\text{C}$ – $^\circ\text{F}$)

4. Notes

- 1) The tester should be calibrated at least once in a week. Calibrate one point with pH 7.00 buffer solution for tests requiring general accuracy (≥ 0.1 pH). Calibrate two points with pH 7.00 and pH 4.00 buffer solutions for tests of acidic solutions (measurement value is less than pH 7.00). Calibrate two points with pH 7.00 and pH 10.01 buffer solutions for tests of alkaline solutions (measurement value is more than pH 7.00). If the measurement range is broad, calibrate three points with pH 7.00, pH 4.00 and pH 10.01. To ensure the reliability of calibration, pH standard buffer solutions should be replaced after 10-15 times of calibration.
- 2) Maintenance is necessary for the head of the probe because it can become contaminated after long-term use. To perform the maintenance, rinse the probe head in soap water and clean it with a soft brush. Then Rinse the bulb with distilled water, and perform calibration again after several hours.
- 3) The typical service life of the pH electrode is about 12-18 months. When the icon “Err” appears on the screen, or the accuracy or response speed cannot meet your demand, please replace a new probe. The replacement probe’s model number is SX625. Please go to support.aperainst.com to watch a tutorial video for how to replace the pH probe.
- 4) The instrument will turn off automatically after 10 minutes if no operation.
- 5) Replace the batteries when  appears on screen.

5. Warranty

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 (Europe) GmbH, any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS (Europe) GmbH for a period of **two years** from the delivery (a **six-month** limited warranty applies to electrodes). Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the tester or electrodes.