



LabSen® 371 Flat pH Electrode User Manual

LabSen® electrochemical sensors are premium pH electrodes with manufacturing technology and key components imported from Switzerland. LabSen plastic flat pH electrode adopts a flat membrane and PTFE junction structure. It is suitable for pH measurements of wet solid and semi-solid surface, such as paper, skin, textile and leather; also suitable for small-volume regular water solutions test.

This pH electrode has the following features:

- Anti-corrosion POM (Polyoxymethylene) shaft with a good mechanical performance.
- Blue gel inner solution, which does not flow and will not generate air bubbles.
- Long-life reference system with better stability and longer service life.

Technical Data

Measuring Range	0 – 14 pH	Electrolyte	Gel KCL
Temperature Range	0 – 80 °C	Soaking Solution	3M KCL
Shaft Material	POM	Electrode Dimension	Φ12×105 mm
Membrane Shape	Flat	Connector	BNC
Reference	Long Life	Cable	Φ3×1m
Junction	PTFE	Temperature Sensor	N/A

Usage and Maintenance

- 1) Insert the blue BNC connector of the electrode to the BNC socket of your pH meter while twisting clockwise until it's locked.
- 2) Perform at least a two-point calibration before measuring after connecting the new electrode to your pH meter.
- 3) Testing surface needs to be clean and wet, such as wetting the surface of skins or textiles with distilled water.
- 4) The electrode is only as accurate as it is clean. Always thoroughly rinse off the probe before and after each measurement with pure water in a container or with a wash bottle.
- 5) The connector of the electrode should be kept clean and dry. If the connector is contaminated, please clean it with medical cotton and absolute alcohol and blow dry to prevent short circuit and slow response of the electrode.
- 6) The electrode measuring tip should be soaked in the storage bottle, which has a certain amount of storage solution to keep the membrane hydrated and junction unblocked. When measuring,

please unscrew the bottle cap, pull out the electrode and rinse it with deionized water. After testing, put the electrode back into the bottle and screw the cap tight. Clean the bottle and replace storage solution if it gets turbid and mildewed. The electrode should never be soaked in pure water or buffer solution for long.

- 7) Every pH electrode will eventually age and fail. The typical service life of Apera pH electrodes is 12-24 months depending on the frequency of usage and how well you keep it clean and properly stored. We recommend replacing your electrode every 12-18 months to ensure the best accuracy.

Limited Warranty

We warrant this electrode to be free from defects in material and workmanship and agree 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 SIX MONTHS from the delivery.

This limited warranty does NOT cover any damages due to:

Accidental damage, transportation, storage, improper use, failure to follow the product instructions or to perform any preventive maintenance, unauthorized repair or modifications, normal wear and tear, or other external causes or actions beyond our reasonable control.

To get the fastest warranty fulfillment, go to support.aperainst.com and click “**New Support Ticket**” on the upper right corner. Type your email in the requester field, “Warranty” in the Subject field, and then input the following information in the description field:

- Your full name
- Product model that needs warranty fulfillment
- Serial number of the product (can be found on the back sticker of the tester body)
- What problem or issue you had experienced with the product
- Attach a photo of your proof of purchase
- Attach a photo of the problematic product

Then click Submit. One of our customer care specialists will help you fulfill the warranty within one business day.

APERA INSTRUMENTS, LLC

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