LabSen 843 Strong Base pH Electrode User Manual

LabSen electrochemical sensors are premium pH electrode with manufacturing technology and key components imported from Switzerland. LabSen843 adopts special H glass membrane, suitable for high temperature and strong base solution.

This probe has following features:

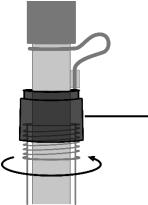
- Impact-resist membrane (see the right picture), there is no danger of electrode breakage during normal use.
- Tested in high temperature and strong base condition, the service life of the probe is 5 times longer than normal electrodes (test condition: 60°C, 1M NaOH solution).
- Blue gel inner solution, does not flow and will not cause bubble.
- Silver ion trap reference prevents the contamination of the junction when testing sample contains sulfides and proteins.

Measuring Range	(1 ~ 14) pH	Electrolyte	3M KCI
Temperature Range	(0 ~ 130) °C	Soaking Solution	3M KCI
Shaft Material	Lead-free Glass	Temperature Probe	ΝΤС 30ΚΩ
Membrane Typ	HA	Electrode Dimension	(Ø12×120) mm
Membrane Resistance	<500MΩ	Connector	BNC/RCA
Reference	Silver Ion Trap	Cable	Ø5×1m
Junction	Ceramic		

1 Technical Data

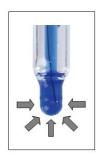
2 Usage and Maintenance

2.1 When measuring, please unscrew the bottle cap, pull out the electrode and rinse it with deionized water. After using, please put the electrode back into the bottle and screw tight the cap.



Before pulling out or putting back the electrode, make sure to fully loosen the blue cap on the storage sleeve so that the electrode can move in and out smoothly.





- 2.2 Prior to measurement, remove the rubber plug to maintain pressure of the reference solution, keep consistent flow rate of reference solution and stable potentials of junction.
- 2.3 Measurement suggestions:
 - (a) The electrode can measure strong base solution lighter than 1mol/L (pH=14), with good repeatability and stability. Stirring is recommended while measuring, to speed up stable measurement.
 - (b) Wash with pure water after each measurement, and soaking and active in 3M KCL.
 - (c) The performance of electrode will apparently drops after a while if it measures strong base solution frequently. May use 1% HF solution (about 0.5mol/L) soaked for 5-8 seconds, then soak in 3M KCL solution for more than 2 hours, and wash clean with pure water.
- 2.4 After a period of usage, the reference solution will running low. Whenever the level falls to 1/2 height of the electrode, add 3M KCL solution to the refilling hole by using syringe or pipette.
- 2.5 The connector of the electrode should keep clean and dry. If being contaminated, please clean it with medical cotton and absolute alcohol and blow dry to prevent the short circuit of the electrode and slow reaction of electrode.
- 2.6 The electrode's measuring tip should be soaked in the soaking bottle containing certain amount of storage solution to keep the membrane hydrated and junction unblocked. Clean the bottle and replace the storage solution if the storage solution gets turbid and mildewed. The electrode should never be sinked in pure water or buffer solution for long.
- 2.7 After 1-year of use, we recommend replacing the electrode to ensure the best accuracy.

3 Warranty

We warrant this electrode free from defects in material and workmanship and agrees to repair or replace free of charge, at option of APERA INSTRUMENTS any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS for a period of **six months.** 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.

This limited warranty does not cover any damages due to:

transportation; storage; improper use; failure to follow the product instructions or to perform any preventive maintenance; modifications; combination or use with any products, materials, processes, systems or other matter not provided or authorized in writing by us; unauthorized repair; normal wear and tear; or external causes such as accidents, abuse, or other actions or events beyond our reasonable control.

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