



LabSen® 331 POM Professional pH Electrode User Manual

LabSen® electrochemical sensors are premium pH electrodes with Swiss sensor technology and key components. The LabSen® 331 pH electrode adopts a Polymer solid electrolyte and POM housing. It is designed for wastewater, emulsion, suspension, effluent, and other turbid water solutions.

Suitable Applications for LabSen® 331

	Ideal	Appropriate
Regular water solutions: hydroponics, pools and spas, environmental monitoring, aquaculture, aquariums, education, general purpose lab test, body fluid, etc.		X
TRIS Buffer	X	
Drinking Water		X
Waste Water	X	
Effluent	X	
Turbid Water Solutions	X	
Detergent	X	
Liquid Soap	X	
Salt Water	X	
Phosphate Buffers	X	

This electrode has following features:

- Unique LabSen® blue glass membrane from Switzerland, faster response rate, better repeatability, and impact-resistant
- Polymer Electrolyte, ideal for testing wastewater and suspension. No more clogged junction.
- Long-Life Reference System, improving the stability of reference electrode and prolong the service life of the electrode
- POM housing, highly resistant to corrosions

1. Technical Data

Measuring Range	(0-14) pH	Electrolyte	Polymer
Temperature Range	(0~80) °C	Soaking Solution	3M KCL
Housing Material	POM(Polyoxymethylene)	Temp. Sensor	N/A
Membrane Shape	Ball	Electrode Dimension	(Φ12×120) mm
Reference	Long Life	Connector	BNC
Junction	Pore without diaphragm	Cable	Φ5×1m

2. Usage and Maintenance

- 2.1 Polymer reference electrode is a kind of high quality reference electrode with the feature of non-diaphragm, hard to be contaminated, compression resistance and resistance to organic solution. It is most suitable for all pH measurement solution such as solution containing fat, oils, sulfide and protein, effluent, weak ion solution, emulsion and suspension.
- 2.2 The connector of the electrode should be kept clean and dry. If contaminated, please clean it with medical cotton and absolute alcohol and blow dry to prevent the short circuit of the electrode and slow response time.
- 2.3 The electrode's tip should be soaked in the soaking bottle containing storage solution when not in use to keep the membrane hydrated and junction unblocked. When measuring, unscrew the bottle cap, pull out the electrode and rinse it with deionized or distilled water. After using, please put the electrode back into the bottle and screw tight the cap. Clean the bottle and replace the storage solution if the storage solution gets turbid and mildewed. The electrode should never be soaked in purified water or buffer solution for long.
- 2.4 If exposed in air for a long time, the Polymer electrolyte could occur shrinkage. The electrode must be soaked in 3M KCL solution for storage. After a long time soaking, there will be some white salts dissolving out from 3M KCL solution, this is normal.
- 2.5 After 1-year of use, we recommend replacing the electrode to keep the best accuracy.

3. Limited Warranty

We warrant this instrument 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 SIX MONTHS from the delivery.

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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