InLab® Routine Pro-ISM

For General Laboratory Applications

Alkaline Samples

Introduction

Strong acids and bases are needed for many electrochemical processes and the robust HA glass of InLab Routine Pro-ISM is ideal for this application as it covers the whole pH range with an extremely low alkali error. InLab Routine Pro-ISM is a generalist sensor for measuring the pH of routine laboratory samples with the utmost accuracy and precision. The sensor has a built-in temperature probe and provides Intelligent Sensor Management (ISM) technology, all the important information is stored in the sensor and transferred automatically to the meter.

- pH
- Ref
- °C
- ISM

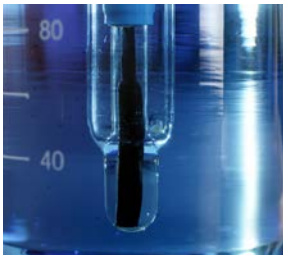
Highlights

Better response in very acidic and alkaline pH range, as this probe has HA type glass membrane.

Highly sensitive cylindrical membrane, large surface area with relatively low resistance.

ISM

Ensures data security and easy handling. The last 5 calibrations and the factory calibration are saved on chip.



Owing to the ceramic junction, stable results for liquid samples are ensured.

METTLER TOLEDO

Typical applications and samples

Electroplating Industry
Electroplating is a common technique used to coat metals in order to add desired properties to them. The robust HA glass of InLab Routine Pro-ISM is suitable for this application.

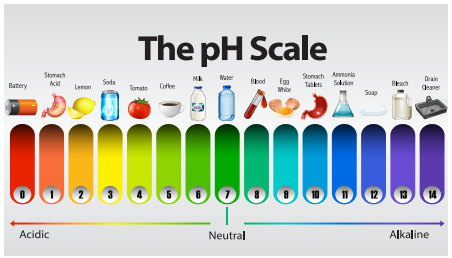
Saline water management (or brine treatment) industry
For salty water and highly saline solution, the sensor of choice is InLab Routine Pro-ISM as it is equipped with HA (High alkali) glass.

Pharma and testing labs
It is ideal for routine pharma laboratory applications like buffer media preparation. The cylindrical shape of the glass membrane offers large surface area for stable results.

Tips and tricks for optimal use and care

Ensure accurate measurement with regular calibrations
Calibrate the sensor before use with fresh and non-expired buffers bracketing the pH of the sample. Our sachets guarantee fresh solution for every calibration.

Keep your sensor up to speed
Clean the sensor with DI water after each measurement, store in-between measurements in InLab Storage Solution and periodically re-condition it in 0.1M HCl to ensure fast response.



Prolong the life of your sensor
The pH range for this sensor is 1 to 14 pH units. Do not keep the sensor in water as this reduces the sensitivity of the electrode.

Specifications

Order number	**51344055**
Dimensions	Refer to the drawing on the first page
pH range	1 - 14
Temperature range	0 - 100°C
Shaft material	Glass
Membrane glass	HA - High alkali glass for use at high pH values and high temperatures
Reference system	ARGENTHAL™ with Ag+ trap to prevent contamination of the junction when using sulfides and proteins
Reference junction	Ceramic junction
Reference electrolyte	3M KCl liquid electrolyte used for ceramic junction sensors with refilling hole
Connection	MultiPin™ allowing connections of various cables
Recommended cable	30281896 - InLab cable MultiPin-BNC/RCA 1.2m

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