

# InLab® Solid Pro-ISM

## For Solid and Semi-Solid Samples

### Introduction

Measuring the pH of solid or semi-solid samples is a necessity for various industries but it often comes with challenges: easy insertion of the sensor in the sample, ensuring stable results and avoiding fouling.

InLab Solids Pro-ISM is a specialist sensor for measuring the pH of solid and semi-solid samples with the utmost accuracy and precision. The sensor has a built-in temperature probe and provides Intelligent Sensor Management (ISM) technology, allowing users to accurately capture all critical measurement parameters.

- ✓ pH
- ✓ Ref
- ✓ °C
- ✓ ISM

### Highlights



Easy insertion into solid samples with its spear-shaped membrane.



Low maintenance sensor. No refilling needed thanks to the XEROLYT®EXTRA polymer reference system.



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



Low risk of fouling thanks to its open junction. There is no outflow of electrolyte but a diffusion of ions.



**METTLER TOLEDO**

## Typical applications and samples



### Food and Beverage Industry

Ideal sensor for quality control of a large variety of samples, such as meat, cheese, yogurt or fruits, thanks to its spear-shaped membrane and its open junction.



### Cosmetics Industry

Its open junction allows for accurate and fast pH measurement in a broad range of sample types, such as creams, lotions or gels.



### Pharma and Biolabs

The spear-shape of the glass membrane allows for easy insertion of the sensor in thick agar plates.

## Tips and tricks for optimal use and care



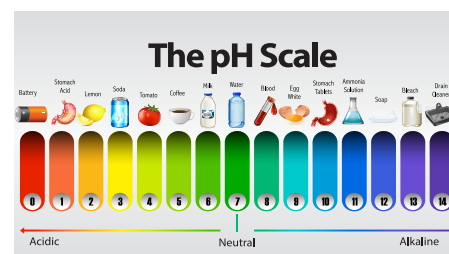
### Ensure accurate measurement with regular calibrations

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 it between measurements in InLab Storage Solution and periodically recondition it in 0.01M HCl to ensure fast response.



### Prolong the life of your sensor

The pH range for this sensor is 1 to 11 pH units and hence should not be exposed to harsh acidic (below pH 1.00) or alkaline (above pH 11.00) solutions.

## Specifications

Order number	51344155
Dimensions	Please see the drawing on the first page
pH range	1 - 11
Temperature range	0 - 80°C
Shaft material	Glass
Membrane glass	LoT - Low resistance glass for use at low temperature or low ionic concentrations. Thick membrane ideal for puncture or surface electrodes.
Reference system	ARGENTHAL™ with Ag+ trap to prevent contamination of the junction when using sulfides and proteins.
Reference junction	Open junction to limit the risk of clogging.
Reference electrolyte	XEROLYT®EXTRA, a solid polymer used for open junction sensors
Connection	MultiPin™ allowing connections of various cables
Recommended cable	30281896 - InLab cable MultiPin-BNC/RCA 1.2m

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For more information