

Reduce pH Measurement Costs

With the InPro X1



Cuts pH Measurement Costs by up to 60%

In-line pH measurement with InPro X1 HLS enables process automation, reducing operating costs by up to 60% compared to grab sampling.



Ensures the Same Great Taste for Every Batch

The InPro X1 HLS maintains consistent product quality through process automation enabled by accurate and continuous in-line pH measurement, leading to uniform taste and texture in food and beverages.



Protect Your Brand from Costly Recalls and Liabilities

The unbreakable InPro X1 HLS enables contamination-free production and HACCP compliance, significantly reducing the likelihood of product recalls and protecting consumers from injury.



Food Safety Audits Made Easy

InPro X1 HLS's hygienic design and Food Contact-certified materials simplify compliance with food safety regulations, lowering audit process efforts.



ISM



InPro X1 HLS

Digital, Food-Safe, In-line pH Sensor

With its unbreakable* X-Chip technology, the InPro X1™ HLS offers extremely safe and highly reliable pH measurement for food or beverage production processes. The sensor's low drift and long lifetime reduce handling, calibration and replacements costs. Its rapid response to pH changes improves process control, leading to lower consumption of additives and defined batch times.

Intelligent Sensor Management (ISM™) digital technology provides predictive diagnostics, such as the Dynamic Lifetime Indicator (DLI), interference-free signal transmission, fast Plug and Measure installation and easy calibration with ISM Core™ software.

* The InPro X1 has passed the US military's MIL-STD-810H drop test.

METTLER TOLEDO

InPro X1 HLS

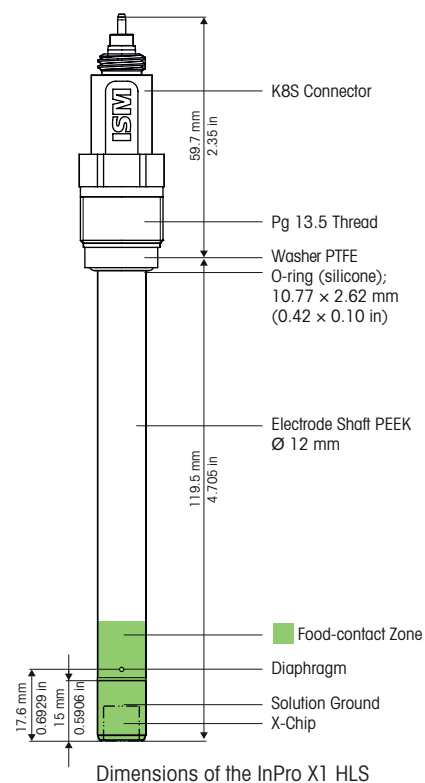
Technical Data & Ordering Information

Technical Data	
Measurement Parameter	pH
ISM (Digital) or Analog	ISM (Digital)
pH Sensing Technology	Composite X-Chip
pH Range	0 – 14
Reference System	Pre-pressurized liquid electrolyte, ceramic diaphragm, Argenthal cartridge with silver-ion trap
Operating Temperature (for Cleaning)	0–80 °C (100 °C)/32–176 °F (212 °F)
Operating Pressure	0–4 barg/0–58 psig
Process Connection	Pg 13.5 thread
Temperature Sensor	Digital
Shaft Material	Food-grade PEEK
Solution Ground	12 mm
Sensor Length	120 mm, 225 mm
Hazardous Area Approvals	Yes (see Certificates and Approvals below)
Hygienic/Biocompatibility Approvals	Yes (see Certificates and Approvals below)
Sterilizable/Autoclavable	No
Primary Media/Application	Food/Beverage Production
Certificates & Approvals	CE, EHEDG, 3A, EC1935/2004, ATEX/IECEx: Ex ia IIC T6/T5/T4/T3 Ga/Gb, FM: IS Cl. I, II, III, Div 1, GR ABCDEFG/T6, PED, METTLER TOLEDO Quality Certificate

Ordering Information		
pH Sensor	Shaft Length	Order Nr.
InPro X1 HLS-N200-K120	120 mm	30 389 700
InPro X1 HLS-N200-K225	225 mm	30 389 701

► www.mt.com/InProX1HLS

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Process Analytics
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For more information

