

Highest Performance and Reliability

pH & ORP for Biotech Applications



Optimized for Steam Sterilization

The special pH glass membrane and reference system can withstand many autoclaving cycles without loss of performance and minimal zero-point shift.



Low Maintenance and Easy-to-Use

Digital ISM technology offers predictive diagnostics to reduce maintenance effort and simplify calibration.



Combined pH & ORP Measurement

ISM sensors combine high quality pH and redox measurement in a single sensor.



Easy Validation

The InPro 3253i is suited for biopharmaceutical and chemical production. Its certification covers hazardous zone use, biocompatibility of the electrolyte, and all relevant hygiene and safety regulations.



ISM®



InPro 3253i pH sensor

Combined pH & ORP Measurement

The InPro® 3253i is a digital Intelligent Sensor Management (ISM®) pH sensor, developed to master the challenges of biopharmaceutical processes such as fermentation and cell culture.

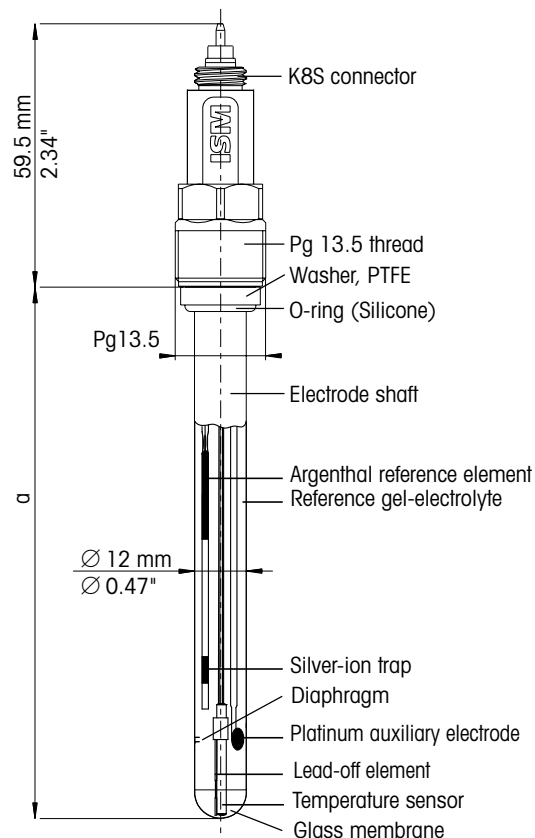
It features a pre-pressurized reference system and fully steam sterilizable pH glass membrane. All ISM sensors come with a platinum dot as standard. It serves several purposes: as a solution ground to eliminate electrostatic interferences on the pH measurement, to measure the redox potential and to enable ISM's predictive diagnostic tools.

Technical data of the InPro 3253i

pH sensing technology	Steam sterilizable glass membrane (A41)
Reference system	Ceramic diaphragm, pressurized liquid electrolyte, Argentha™ cartridge with silver-ion trap
Redox measurement and solution ground	Platinum dot
pH Range	0–12
Operating temperature/temperature sensor	0–100 °C (32–212 °F) / digital
Operating pressure	4 barg (58 psig)
Sterilizable/autoclavable/sanitizable	Yes, up to 140 °C (284 °F)
Cable connection	K8S
Process connection	Pg 13.5 thread
Shaft diameter	12 mm
Length	120 mm
Certificates	EHEDG, ATEX, IECEx, cFMUS

Ordering information

pH Sensor	Shaft Length	Order Nr.
InPro 3253i/SG/120	120 mm	52 005 377
InPro 3253i/SG/225	225 mm	52 005 378
InPro 3253i/SG/325	325 mm	52 005 379
InPro 3253i/SG/425	425 mm	52 005 380



Technical drawing of the InPro 3253i

www.mt.com/InPro3253i

Get a complete solution tailored to your application.



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Management System
certified according to
ISO 9001 / ISO 14001

METTLER TOLEDO Group
Process Analytics
Local contact: www.mt.com/pro-MOs

Subject to technical changes
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