

ISM pH Sensors Intelligent Diagnostics Meets Top Performance



The InPro sensors with Intelligent Sensor Management (ISM®) combine best sensor performance with lower cost of ownership. With their advanced diagnostics features, ISM measurement systems help to reduce the maintenance costs and to better manage all key aspects of sensor maintenance. Because extensive status data is available on each specific sensor, the user can make better informed decisions about maintenance and troubleshooting. With the additional convenience and ease of use of digital communication, you can concentrate on other tasks while your analytical loops run smoothly.

ISM Technology at a Glance

Available on a broad range of METTLER TOLEDO sensors, the ISM technology is based on additional identification and status data stored directly in the sensor. Each sensor carries its own datasheet, calibration and diagnostics data, continuously updated and sent to the transmitter.

- Exchange swiftly pre-calibrated sensors at the measuring point with the "Plug and Measure" functionality
- Monitor the ageing of the sensor in real-time with the Dynamic Lifetime Indicator (DLI)
- Real-time wear indicator for end-of-life monitoring*
- Check the impedance of the reference electrode for early detection of diaphragm clogging
- Determine when the next calibration is due with the Adaptive Calibration Timer
- Document digitally every measurement system with the Electronic Data Sheet

With ISM, maintenance tasks can be monitored not on a fixed-time, but on an on-demand basis. Reduced maintenance costs is the result, with the upside of higher process availability.

*available on M700

Feature Overview

- Same excellent sensor performance from the analog sensors
- IP68 connector
- "Plug and Measure" functionality
- Advanced sensor diagnostics
- Predictive maintenance functions
- Dynamic Lifetime Indicator (DLI)
- Wear monitor*
- CIP/SIP counter
- ATEX, FM compatible (pending)

Typical Applications

- Biotechnology
- Chemical processes
- Food and Beverages
- Wastewater
- Pulp & Paper

www.mt.com/ISM

Ordering Information

Electrode	Connection	Length	Electrolyte	Order Number
InPro 3250 electrodes with alkali resistant glass				
InPro 3250i/SG	Digital	120 mm		52 005 373
InPro 3250i/SG	Digital	225 mm		52 005 374
InPro 3250i/SG	Digital	325 mm		52 005 375
InPro 3250i/SG	Digital	425 mm		52 005 376
InPro 3253 electrodes with sterilization resistant glass				
InPro 3253i/SG	Digital	120 mm		52 005 377
InPro 3253i/SG	Digital	225 mm		52 005 378
InPro 3253i/SG	Digital	325 mm		52 005 379
InPro 3253i/SG	Digital	425 mm		52 005 380
InPro 4260 electrodes				
InPro 4260i/SG	Digital	120 mm		52 005 381
InPro 4260i/SG	Digital	225 mm		52 005 382
InPro 4260i/SG	Digital	425 mm		52 005 407
InPro 4800 electrodes				
InPro 4800i/SG	Digital	120 mm		52 005 383
InPro 4800i/SG	Digital	225 mm		52 005 384
InPro 4801 i/SG*	Digital	120 mm		52 003 581
InPro 2000i electrodes *				
InPro 2000i/SG	Digital	120 mm	3M KCl	52 003 521
InPro 2000i/SG	Digital	120 mm	Viscolyt	52 003 522
InPro 2000i/SG	Digital	150 mm	Viscolyt	52 003 523
InPro 2000i/SG	Digital	250 mm	Viscolyt	52 003 524
InPro 2000i/SG	Digital	450 mm	Viscolyt	52 003 525
InPro 2000i/SG	Digital	120 mm	Friscolyt	52 003 526
InPro 2000i/SG	Digital	150 mm	Friscolyt	52 003 527
InPro 2000i/SG	Digital	250 mm	Friscolyt	52 003 528
InPro 2000i/SG	Digital	450 mm	Friscolyt	52 003 529
InPro 3100i electrodes				
InPro 3100i/SG	Digital	120 mm		52 003 515
InPro 3100i/SG	Digital	150 mm		52 003 516
InPro 3100i/SG	Digital	225 mm		52 003 517

For pH buffers, refer to "pH and Redox Accessories" section. For information about electrolytes, see page 49.

* Available as of Q3/2008

AK9 Coax Cables for pH Electrodes with K9 or K8S Connector

Cable Socket	Termination	Cable Length	Order Number
AK9	Tinned ends	1 m (3.3 ft)	10 000 0102
AK9	Tinned ends	3 m (9.8 ft)	10 000 0302
AK9	Tinned ends	5 m (16.4 ft)	10 000 0502



Did You Know

The ISM technology from METTLER TOLEDO is an advanced diagnostic tool that continuously gives you information about the sensor status. Calibration, maintenance and sensor exchange can easily be planned in advance.

The "Plug and Measure" system with pre-calibrated sensors will additionally improve both the usability and the measuring accuracy as the sensor calibration can be done in a stable environment. Transmitters with ISM technology see pages 53–55 and 58–59.