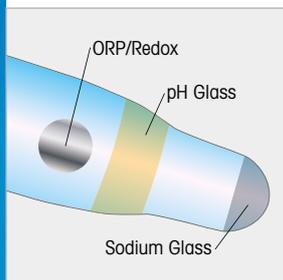


# InPro 4850i pH/ORP Sensor

## Junction-Free pH Sensor

### For the Toughest Chlor-Alkali Process



#### For chlor-alkali applications

The InPro 4850i is specifically designed for chlor-alkali processes. It uses a sodium sensitive glass electrode as reference system.



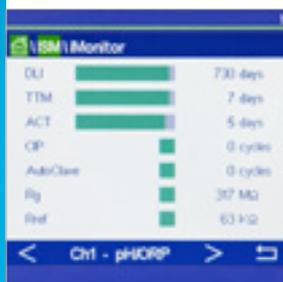
#### Designed to resist harsh conditions

Extended sensor lifetime compared to other pH/ORP sensors. The junction-free design makes it immune to chlorine and other oxidizing agents.



#### Combined pH and ORP sensor

The InPro 4850i sensor allows for reliable monitoring of both pH and ORP with one probe. Additionally, its digital signal ensures 100% signal integrity and stability.



#### Diagnostics to reduce maintenance

Reduce measurement downtime thanks to ISM predictive diagnostics which provides a clear indication of when the sensor will need calibration or replaced.



ISM®

#### InPro 4850i pH/ORP Sensors

Exceptionally long lifetime in chlor-alkali processes

The InPro 4850i combination pH electrode incorporates a sodium-sensitive glass membrane that uses the sodium concentration of the chlor-alkali process brine as a reference. The sensor's reference system has no diaphragm and is therefore immune to chlorine and other oxidizing agents, ensuring long sensor lifetime.

Tight process control and high measurement uptime can be achieved with the help of Intelligent Sensor Management (ISM®) technology. Analog to digital signal conversion ensures 100% signal integrity and stability. ISM also offers sensor self-diagnostics, calibration away from the process, and Plug and Measure start up to simplify installation and maintenance tasks.

The combination of dual-membrane, sealed reference system and digitalized signal makes the InPro 4850i an extremely reliable and durable solution to pH and ORP measurement in the chlor-alkali industry.

METTLER TOLEDO

### Technical Data of the InPro 4850i

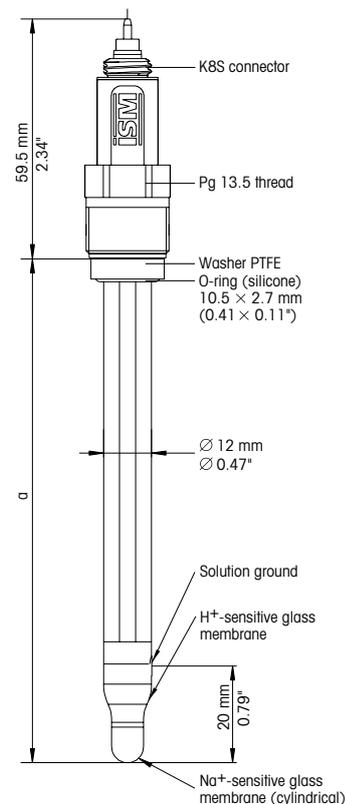
pH range	0 ... 14
Temperature	- 10 ... 120 °C (14 ... 248 °F)
Operating pressure (bar)	Up to 13 bar (188 psi) overpressure at 120 °C (248 °F);
Process connection	Pg 13.5 thread
Glass membrane	High alkali resistant glass
Reference system	Sodium-sensitive glass membrane
Redox measurement	Yes
Shaft diameter	12 mm
Shaft material	Glass
Length	120 mm, 225 mm
Sterilizable/ Autoclavable/ Sanitizable	No
Certificates	Quality certificate, ATEX: Ex ia IIC/T6/T5/T4/T3, FM : IS/I,II,III / Div 1 / GR ABCDEFG / T6

### Ordering Information

Designation	Sensor Length (a)	Order Number
InPro 4850i/125	120 mm	30 536 625
InPro 4850i/225	225 mm	30 536 627

pH Buffer Solutions	1 x 250 ml	6 x 250 ml
Buffer pH = 2.00/3.9 M NaCl	52 004 100	52 004 101
Buffer pH = 4.01/3.9 M NaCl	52 004 103	52 004 104
Buffer pH = 7.00/3.9 M NaCl	52 004 106	52 004 107
Buffer pH = 9.21/3.9 M NaCl	52 004 109	52 004 110



Technical drawing of the InPro 4850i

► [www.mt.com/InPro4850i](http://www.mt.com/InPro4850i)



Retractable housing  
InTrac 777 e



Transmitter M400



pH buffer solutions

#### METTLER TOLEDO Group

Process Analytics  
Local contact: [www.mt.com/pro-MOs](http://www.mt.com/pro-MOs)

Subject to technical changes.  
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