Dissolved oxygen measuring systems.

Leading in quality and performance.



When quality and performance count.



Fermentation in the pharmaceutical industry.

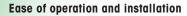
The high performance, inline oxygen sensors from METTLER TOLEDO stand the test of time under challenging operating conditions, whether in the biotechnology, pharmaceutical, brewing or food and beverage industry.



Process reliability

Improved product quality

Brewing process.





Wastewater treatment.

Low maintenance costs

Specifications

Our high quality standards provide assurance of enhanced process reliability. All relative certificates are supplied free of charge. This overall attention to quality guarantees full measurement traceability.

High measurement accuracy and low detection limit capability provide the appropriate basis for optimization of product quality.

The measuring system can be installed within the shortest possible time, and is particularly easy to operate.

The modular design of the sensor makes maintenance extremely straightforward, which provides savings in both time and effort.

DO Sensors	InPro 6900	InPro 6800	InPro 6050
Industry	Brewing/Beverage	Biotechnology	Wastewater
Detection limit	1 ppb	6ppb	30 ppb
Temperature range °C	-5121	−5140	060
Temperature range °F	23250	23284	32140
Pressure range in bar (overpressure)	0.29	0.26	0.52
Pressure range in psi (overpressure)	2.9130	2.987	7.229
Accuracy	$\leq \pm [1\% + 1 ppb]$	$\leq \pm [1\% + 6ppb]$	≤ ±30 ppb
Autoclavable/sterilizable	-/•	•/•	-/-
Certificates	Quality/Test Certificates		Quality and
	EHEDG		Test Certificates
	Material Certificate 3.1 B		
	ATEX/FM		
	FDA + USP Class VI		

Best performance with InPro 6900.



Perfect flavor and long shelf-life of beverages can only be achieved by ensuring an absolute minimal content of residual oxygen. An extremely low detection limit and outstanding hygienic design features establish the InPro 6900 as the ideal oxygen sensor for the beverage industry.

The low ppb inner body with an especially low detection limit and "Stop of flow" resistance.



Low detection limit

High signal stability

Reinforced membrane for high process pressures.



Also for gas measurements

- The specially developed membrane body with PTFE coating allows a detection limit of down to 1 ppb (1 µg/l)
- The annular protective cathode provides increased signal stability, ensuring a minimum loss of product in the event of any brisk stop of the filling plant
- The imperviousness of the plug head (VarioPin connector) has been verified in an immersion test at 1 bar overpressure for 1000 hours
- Eight out of the ten largest brewing companies worldwide place their confidence in the proven quality of InPro 6900 sensors
- Ideal for the measurement of O_2 in the gas phase in the recovery of high purity CO_2 for carbonization

Wastewater and water applications with InPro 6050.

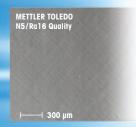
In the field of biological wastewater treatment and for the monitoring of water generally, we recommend the use of our special robust and easy-to-use measuring system.

The durable oxygen sensor InPro 6050 is ideal for such demanding applications.



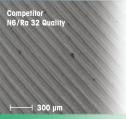
InPro 6900 sensors in the brewing industry

Proven quality, hygienic design: InPro 6800.



The modular concept of the inline dissolved oxygen sensors of the InPro 6800 Series allows straightforward installation and maintenance. A comprehensive package of certificates supports traceability and process reliability.

No adherence of microorganisms thanks to a smooth surface finish (N5).



Standard surface N6: there are visible grooves to which organic material can adhere.

Hygienic sensor design

Time-saving maintenance

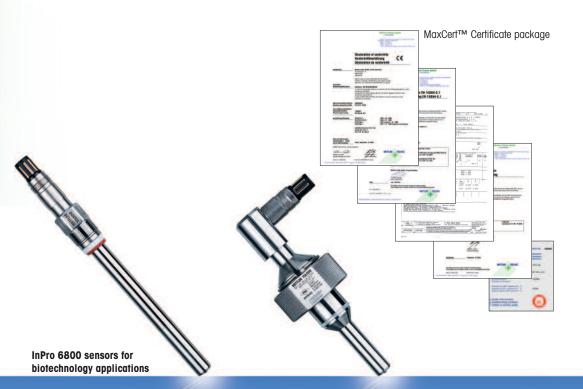
Quality guarantee with MaxCert™

- Microorganisms cannot adhere to the sensor surface due to the enhanced finish (N5/Ra16 Quality)
- The sensor is fully sterilizable and autoclavable
- Change of membrane body and sensor inner body can be carried out very quickly. A simple membrane body replacement takes just two minutes and can be made on site by the user
- Due to the modular design, the different sensors have basically the same spare parts. This minimizes inventory stocking requirements

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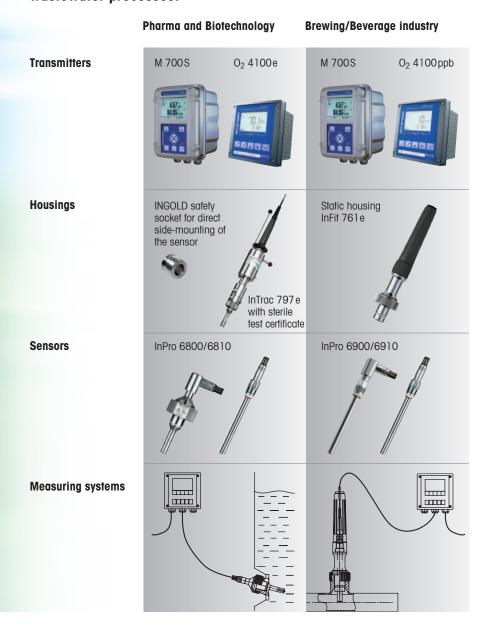
Inner body replacement can be accomplished very quickly.

MaxCertTM comprises a package of quality certificates and therefore provides support for your "cGMP" compliance and in the validation process.
 The package includes: Certificate of Conformity (CE), confirmation of surface roughness value N5, inspection certificate (3.1 B), certificate of sensor quality inspection (sensor accuracy), Materials conformity (FDA + USP Class VI) for medium-wetted O-rings



It's the system that makes the difference!

We take every step to ensure that you employ the right system combination to achieve best possible performance, whether in biotechnology, in the beverage industry or in wastewater processes.



METTLER TOLEDO products are certified according to the following standards:



















Our service: professional and customer-oriented.

METTLER TOLEDO offers a wide range of technological measurement solutions for the area of industrial **Process Analytics:**

- A complete range of electrodes/sensors for pH/ORP, DO, conductivity, CO₂, and turbidity measurements
- A wide variety of static and retractable housings, cables and dedicated accessories as well auxiliary systems such as automatic sensor cleaning and calibration devices
- We have a comprehensive line of transmitters to meet your most demanding requirements, including compatibility with sophisticated, modern communication and automation systems



Professional service and support is always close at hand.

Our professional worldwide distribution and service network provides you with the best possible technical and application support, ranging from consulting through to trouble-shooting.



Management System

certified according to ISO 9001 / ISO 14001

Technical documentation (TD) for dissolved oxygen measuring systems:

With detailed product information and ordering numbers

TD for O₂ sensors InPro 6800, InPro 6900 and InPro 6050 Order no. 52 200 954 TD for "Advanced Line" transmitters O₂ 4100e und O₂ 4100 ppb Order no. 52 121 132 TD for "Advanced Line" transmitter M 700S Order no. 52 121 232

For technical data sheets of other electrodes and transmitters please contact your METTLER TOLEDO sales representative.

Documentation material for products and systems (available in English, German and French):



Transmitters

- "Value Line"
- "Advanced Line"
- "Premium Line"



- Gel/polymer electrodes
- Liquid electrodes
- · Non-glass electrodes
- Polymer body electrodes



0₂/D0

- Value sensors
- Advanced sensors
- Premium sensors
- Portable instruments



Conductivity

- Value sensors
- 2/4-electrode sensors
- Inductive sensors



Turbidity

- Low to medium turbidity
- · Medium to high turbidity



CO_2

 In-situ measurement for in-line fermentation control



Housings

- For Ø 12 mm electrodes/sensors
- For liquid and gel electrolyte electrodes
- InTrac[®] series



Cleaning & calibration systems

· EasyClean family

Sales and service:



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