Dissolved oxygen measuring systems.
Leading in quality and performance.
When quality and performance count.

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

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.

Improved product quality

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

Ease of operation and installation

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

Low maintenance costs

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

Specifications

<table>
<thead>
<tr>
<th>DO Sensors</th>
<th>InPro 6900</th>
<th>InPro 6800</th>
<th>InPro 6050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>Brewing/Beverage</td>
<td>Biotechnology</td>
<td>Wastewater</td>
</tr>
<tr>
<td>Detection limit</td>
<td>1 ppb</td>
<td>6 ppb</td>
<td>30 ppb</td>
</tr>
<tr>
<td>Temperature range °C</td>
<td>–5…121</td>
<td>–5…140</td>
<td>0…60</td>
</tr>
<tr>
<td>Temperature range °F</td>
<td>23…250</td>
<td>23…284</td>
<td>32…140</td>
</tr>
<tr>
<td>Pressure range in bar (overpressure)</td>
<td>0.2…9</td>
<td>0.2…6</td>
<td>0.5…2</td>
</tr>
<tr>
<td>Pressure range in psi (overpressure)</td>
<td>2.9…130</td>
<td>2.9…87</td>
<td>7.2…29</td>
</tr>
<tr>
<td>Accuracy</td>
<td>≤ ±[1 % + 1 ppb]</td>
<td>≤ ±[1 % + 6 ppb]</td>
<td>≤ ±30 ppb</td>
</tr>
<tr>
<td>Autoclavable/sterilizable</td>
<td>–/–</td>
<td>–/•</td>
<td>–/–</td>
</tr>
</tbody>
</table>

Certificates

- Quality/Test Certificates
- EHEDG
- Material Certificate 3.1B
- ATEX/FM
- FDA + USP Class VI

Industries and specifications
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.

**Low detection limit**
- The specially developed membrane body with PTFE coating allows a detection limit of down to 1 ppb (1 µg/l)

**High signal stability**
- 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

**Waterproof design**
- The imperviousness of the plug head (VarioPin connector) has been verified in an immersion test at 1 bar overpressure for 1000 hours

**Internationally proven**
- Eight out of the ten largest brewing companies worldwide place their confidence in the proven quality of InPro 6900 sensors

**Also for gas measurements**
- Ideal for the measurement of O₂ in the gas phase in the recovery of high purity CO₂ 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.
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.

Hygienic sensor design
- Microorganisms cannot adhere to the sensor surface due to the enhanced finish (N5/Ra16 Quality)
- The sensor is fully sterilizable and autoclavable

Time-saving maintenance
- 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

Quality guarantee with MaxCert™
- MaxCert™ 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 (3.1B), 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.

<table>
<thead>
<tr>
<th>Transmitters</th>
<th>Pharma and Biotechnology</th>
<th>Brewing/Beverage industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 700S</td>
<td>O₂ 4100e</td>
<td>M 700S</td>
</tr>
<tr>
<td>O₂ 4100ppb</td>
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</tbody>
</table>

<table>
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<tr>
<th>Housings</th>
<th>Pharma and Biotechnology</th>
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<tbody>
<tr>
<td>INGOLD safety socket for direct side-mounting of the sensor</td>
<td></td>
<td>Static housing InFil 761e</td>
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<tr>
<td>InTrac 797e with sterile test certificate</td>
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<tr>
<td>InPro 6800/6810</td>
<td></td>
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<table>
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<tr>
<th>Measuring systems</th>
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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.

Technical documentation (TD) for dissolved oxygen measuring systems:

With detailed product information and ordering numbers

TD for O₂ sensors InPro 8800, InPro 6900 and InPro 6050 Order no. 52 200 954
TD for "Advanced Line" transmitters O₂ 4100e und O₂ 4100ppb 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"
- pH/ORP
  - Gel/polymer electrodes
  - Liquid electrodes
  - Non-glass electrodes
  - Polymer body electrodes
- O₂/DO
  - 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
- CO₂
  - 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: