

The new InPro® 6800/6900 dissolved oxygen sensor series:

The perfect choice for in-line O₂ measurement.

METTLER TOLEDO introduces a new line of dissolved oxygen sensors specifically designed for reliable, in-line measurement in processes under sterile, hygienic conditions.

- Accurate measurement and quick response
- Long lasting membranes that are effortless to maintain
- Simple maintenance with the new "Quick Disconnect" inner body
- FDA positive listed materials of construction and easy-to-clean high polished surface ($R_a \leq 16 \mu\text{m}$.) to satisfy increasing regulatory requirements
- Oxygen measurement down to 6 ppb (1 ppb with the InPro 6900)
- Suitable for Hygienic Applications: EHEDG Certified and 3A Compliant
- Available with 12 or 25mm diameters (InPro 6800 only) and with various lengths
- Saves time and money



InPro 6900 low ppb interior body: low detection limit (1 ppb) and ring-shaped protective cathode for enhanced signal stability guarantee high precision O₂ measurement.



Low maintenance: quick-disconnect design permits the interior body to be replaced quickly, easily, and reliably in the field.

Ingold O₂ sensors: Always a step ahead!

The new modular design of the InPro 6800 & 6900 sensors permits fast, simple servicing and replacement of the interior body, thereby reducing maintenance time and costs.

Modular Design: Saves time and money.

Replacement of the anode / cathode assembly simplified with METTLER TOLEDO's state-of-the-art interior sensor design, thereby reducing maintenance costs.

Field personnel may service sensors on-site, requiring only a 3/8" wrench.

- No complicated service procedures, with the quick-disconnect interior body.
- Fail-safe interior body design guarantees a good connection every time.
- Universal size membrane body fits 12 mm and 25 mm sensors, reducing inventory requirements.

High process reliability guaranteed: Durable materials, robust design.

The exclusive Ingold membrane has become the standard for quality throughout the industry. The membrane features a two-layer PTFE/silicone construction and an integral stainless steel mesh to provide durability, minimize distortion and hold the electrolyte layer constant for reliable continuous in-line measurement.

The InPro 6900 low-ppb interior body also guarantees:

- a low detection limit of 1 ppb
- flow independent, high-precision readings

Additionally, the InPro 6800 can be upgraded to the InPro 6900 version.

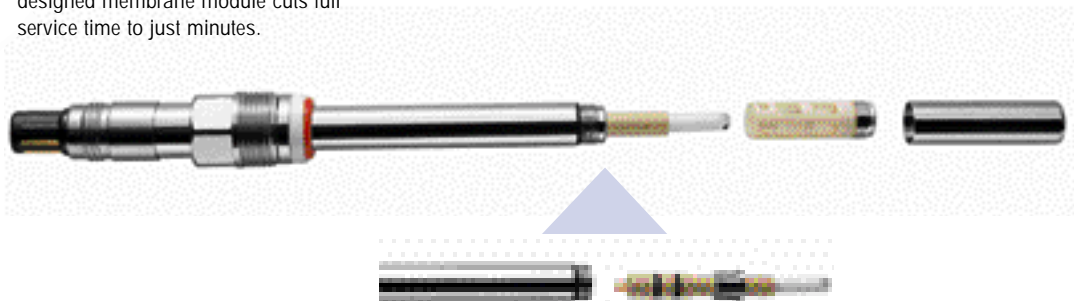
No chance of contamination: Hygiene tests passed with flying colors.

The new O₂ sensors have been tested by leading standards institutes and definitively passed every requirement. METTLER TOLEDO Ingold sensors are

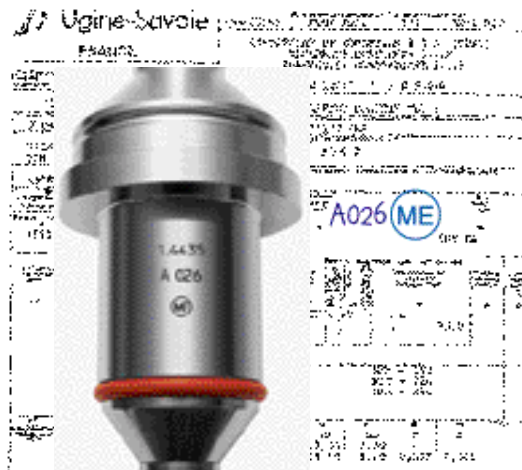


The VarioPin connector rated to IP 68 has been proven to be waterproof under test conditions for 1000 hours at an over-pressure of 1 bar (equivalent to a depth of 10m).

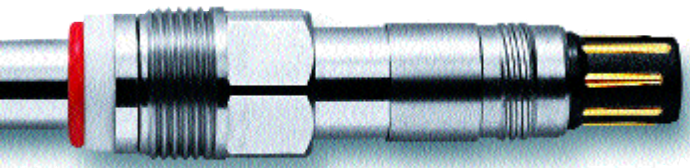
Faster than ever before! The cleverly designed membrane module cuts full service time to just minutes.



Quick-disconnect system: the entire interior body of the sensor can be replaced in minutes and the fail-safe design ensures a good connection every time.



The 3.1 B certificate testifies to the quality of the stainless steel and makes it possible to trace all components that come into contact with media back to the steel manufacturer.



the first O₂ sensors in the world to be awarded EHEDG (European Hygienic Equipment Design Group) certification and meet 3-A hygienic requirements.

InPro 6800 & 6900 sensors have been developed and manufactured in accordance with the most precise surface treatment standards to comply fully with EHEDG and FDA flat-surface recommendations for extremely high-level hygiene applications.

Validation as standard: Steel 100% traceable.

Unlike other manufacturers, METTLER TOLEDO provides a 3.1 B certificate free of charge with each O₂ sensor to satisfy requirements and guarantee the traceability of all media-exposed stainless steel components.

Simplicity: Installed and operational in seconds.

The 12 mm InPro 6800 & 6900 sensors are suitable for direct top or

Sensor specifications compared.

	InPro 6800	InPro 6900
Sterilizable	✓	✓
Autoclavable	✓	-
Detection limit	6 ppb	1 ppb
Interior body	Standard	Low ppb
Convertible to InPro 6900	✓	-
VP connector	✓	✓
T-82 connector	✓	-
Quick-disconnect system	✓	✓
Certification (EHEDG, 3.1 B)	✓	✓

The new O₂ sensor line offers users improved mechanical construction and design, as well as increased performance. The low ppb InPro 6900 version features accuracy of greater than 1 ppb and enhanced signal stability. The InPro 6800 sensor can be upgraded to the InPro 6900 version.

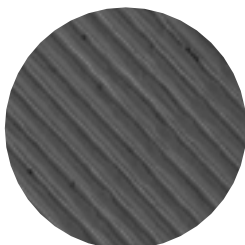
side mounting through a compression fitting or may be used with all METTLER TOLEDO stationary, immersion, or retractable housings.

When used with the InFit® 761-CIP housing, these sensors are certified for cleanliness by the EHEDG. The 25 mm design is ideal for side mounting through a standard Ingold 25 mm weld-in safety socket.



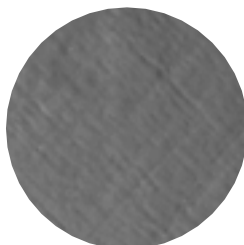
Top-quality materials and intelligent design: the new O₂ sensors easily comply with even the most demanding hygiene regulations.

N6/Traditional machining: there are visible grooves to which organic material can adhere. (US equivalent = $R_a \leq 32 \mu\text{m}$)



— 300 μm —

N5/InPro 6800/InPro 6900: the surface is smooth to prevent the adherence of microorganisms. (US equivalent = $R_a \leq 16 \mu\text{m}$)



— 300 μm —

A look through the electron-microscope makes it clear: the extremely smooth surface finish (right) simplifies cleaning and ensures cleanability of the sensor.

Typical sensor applications:

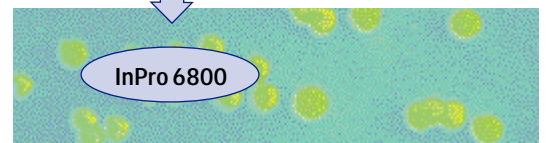
Food and beverage industry



Hygiene
Fast servicing

1 ppb
Enhanced signal stability

Pharmaceutical / Biotechnology



Transmitters and accessories.



Compatibility with METTLER TOLEDO transmitters

	InPro 6800	InPro 6900
4050/4050e	✓/✓	-/-
4100/4100e/4100ppb	✓/✓/ -	-/-/ ✓
4100 PA	✓	-
4220	✓	✓ (without protective cathode)
4500	✓	✓



O₂ Sensor Master

With the O₂ Sensor Master, users can test sensors quickly and simply before use. As soon as a sensor is connected to the O₂ Sensor Master it is automatically polarized. Users can check the Sensor Master for correct operation: if the green LED lights up, the device is functioning properly. The two O₂ Sensor Master models use the same test principle (air current measurement) however, they are adapted to the specifications of the InPro 6800 or InPro 6900 sensor.



O₂ Sensor Simulator

The O₂ Sensor Simulator is used to test the transmitter and the cable. The same O₂ Sensor Simulator can be used for both the InPro 6800 and 6900 sensors. The O₂ Sensor Simulator simulates a sensor's response, in air or in an oxygen-free medium.



XXL service

METTLER TOLEDO leads the industry in certification, qualification, validation and after-sales support and also offers special maintenance services. For more detailed information about these services, please contact our sales organization.



Ordering information and technical specifications

For detailed product specifications and ordering information, please request the separate data sheet (order no. 52 200 954us).

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