

# Single-Use Oxygen Sensor For Bioprocesses



## Easy and Safe Installation

InSUS single-use sensors offer a unified design that allows convenient and secure installation in standard Eldon James, weld-in bag ports.



## Established Process Safety

All wetted polymer parts used on the irradiation sterilizable InSUS 607 sensor are made of USP88 Class VI-compliant materials to meet biocompatibility requirements.



## Convenient Integration

The output signal of the reusable DO InSUS Head is compatible with METTLER TOLEDO field transmitters, allowing easy integration into existing hardware environments.



## Reliable Measurements

This single-use DO sensor uses proven optical spot technology to provide consistent and stable performance – even in long cell culture runs.



## InSUS 607 Single-use Oxygen Sensor For integration in single-use bags

The measurement principle of the InSUS™ 607 single-use dissolved oxygen (DO) sensor is based on proven optical spot technology and offers identical reliability and accuracy as METTLER TOLEDO's reusable optical DO sensors. The sensors are gamma- and X-ray sterilizable for secure installation and operation in single-use process devices such as bioreactors, harvesting and storage bags for biopharmaceutical manufacturing.

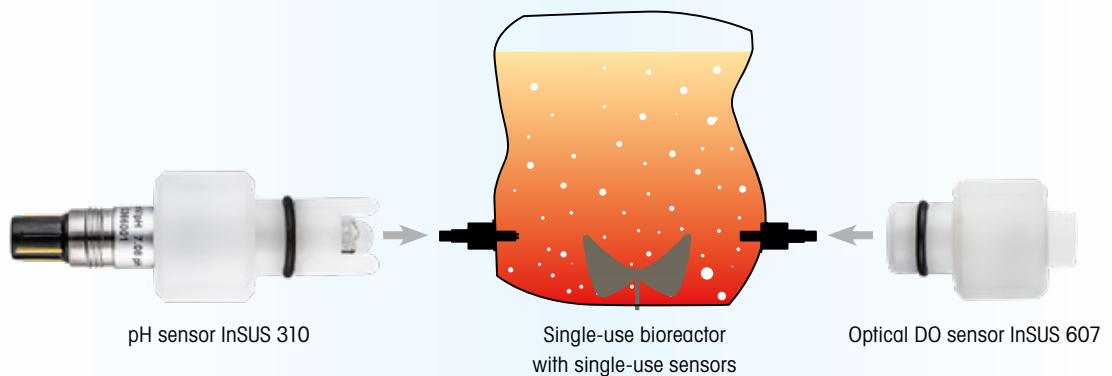
The InSUS 607 sensor is operated together with the reusable components InSUS Fiber cable and InSUS Head, which are fully compatible with standard METTLER TOLEDO process transmitters. Consequently, an existing installed base of DO transmitters can be easily converted for straightforward integration and operation of the InSUS DO setup.

**Technical data of the InSUS 607 single-use oxygen sensor**

|   |  |
|---|--|
| <b>Measuring Principle</b>                              | Optical spot technology (fluorescence quenching) |
| Measurement range                                       | 0...250 % air                                    |
| <b>Operating Conditions</b>                             |  |
| Maximum shelf life                                      | 36 months (dry storage)                          |
| Sterilization method                                    | Gamma- and X-ray irradiation 25 – 45 kGy         |
| Temperature range during measurement                    | 5 – 60 °C (41 – 140 °F)                          |
| Mechanical pressure resistance during measurement       | Up to 2 barg/40 °C (29 psig/ 104°F)              |
| <b>Design</b>   |  |
| Body material   | HPDE   |
| Wetted O-rings  | EPDM   |
| Wetted spot material                                    | Silicone   |
| Bag port (process connection)                           | Eldon James 1" weld-in port                      |
| Temperature compensation                                | Built-in Pt1000                                  |
| Cable connection  | Vario Pin (IP68)                                 |
| <b>Regulatory compliances</b>                           |  |
| USP88 class VI and USP87 for wetted polymer materials • |  |

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

**Get a complete solution for your application with METTLER TOLEDO's single-use offerings for pH and dissolved oxygen measurements!**



**METTLER TOLEDO Group**  
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