

# Oxygen measurement in fermenters and bioreactors

## Memosens COS81D for guaranteed quality and yield

### Your sensor for all hygienic applications

#### Safety for your product and process:

- Hygienic design in accordance with EHEDG (type EL class I) and ASME BPE (including USP class VI and FDA conformity).
- Can be used in all measuring points from the lab fermenter through to production – for measuring results that are 100% consistent.
- Suitable for hazardous areas.

#### Reliable measurements throughout all stages of production:

- Long-term stability even after dozens of CIP and SIP cycles.
- The spot cap, specially designed for hygienic applications, reduces blockages and the adherence of air bubbles.

#### Easy to use and fully traceable:

- Data storage with Memosens technology helps with process documentation and traceability.
- Easy maintenance due to easy replacement of spot cap.



The Memosens COS81D is the ideal oxygen sensor for hygienic applications in the biotech and food industries. Its accuracy, long-term stability and permanent self-monitoring ensure reliable measured values, allowing you to achieve your desired product quality and optimize your production output.

### Safety for your product and process

The Memosens COS81D can be used universally: in lab fermenters, in process development and of course in the production process itself. This flexibility offers you measurements that are 100% consistent wherever it is used. This means that you know exactly where your production is running safely. In addition, the hygienic sensor design as per EHEDG and ASME BPE helps you to avoid contamination of your product and meet the requirements of GMP and GLP.

### Reliable measurements throughout all stages of production

There are two different spot caps available for the sensor: a C-shaped cap and a U-shaped cap. The first is particularly well suited to measurements in liquids, specifically in fermenters and bioreactors. The special design of the U-shaped cap protects the spot from the abrasion that can occur, for example in gas measurements. Thanks to these caps, the sensor delivers extremely stable measured values across the entire measuring range. This stability is maintained even after dozens of CIP and SIP cycles.



### **i** When do I use the Memosens COS81D?

The optical oxygen sensor guarantees you high measuring point availability in applications such as

- Fermentation/cell cultivation
- Inertization (even in hazardous areas)
- Drinking water generation

[www.endress.com/COS81D](http://www.endress.com/COS81D)

### Easy to use and fully traceable

As the sensor can be replaced within seconds, the Memosens COS81D allows you to achieve maximum availability of your measuring point: simply calibrate the sensor in your lab and then introduce it into the process using plug & play. It does not require any polarization time and is immediately ready to measure. In addition, you save time on maintenance. Simply replace the sensor, perform a calibration, and you're ready to go! Last but not least, the sensor offers you all the advantages of Memosens technology. For example, it stores important sensor and process data in its intelligent head. The Memobase Plus CYZ7 1D software can use all of this data to document the entire sensor life cycle. This guarantees complete traceability while minimizing the amount of manual documentation work required.

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