

# Cell growth and biomass sensor OUSBT66

## Hygienic NIR absorption measurement in fermentation and crystallization applications



More information and current pricing:

[www.be.endress.com/OUSBT66](http://www.be.endress.com/OUSBT66)

### Benefits:

- Real-time measurement for optimized processes and product yields
- Reliable, precise measured values with excellent laboratory correlation
- Easy verification and calibration with NIST-traceable clip-on filters - no need for complex liquid calibrations
- Hygienic stainless steel body and sapphire windows without seals or crevices
- Suitable for CIP/SIP and autoclaving
- Various path lengths and sensor lengths for perfect fit into every fermenter and bioreactor
- PG 13.5 thread for standard assemblies or head plate installations

### Specs at a glance

- **Measurement range** 0 to 4 AU 0 to 8 OD (depending on optical path length)
- **Process temperature** 0 to 90 °C (32 to 194 °F) Max. 135 °C for max. 2 hours
- **Process pressure** Max. 10 bar abs at 90 °C (Max. 150 psi at 194 °F)

**Field of application:** The OUSBT66 NIR absorption sensor monitors cell growth, biomass processes, algae systems and crystallization processes. It provides you with reliable, precise measured values in real-time to optimize your process and your product yield. The sensor's hygienic design is CIP/SIP resistant and allows autoclaving. Equipped with NIST-traceable and certified clip-on filters, OUSBT66 is outstandingly easy to calibrate and verify.

### Features and specifications

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## Concentration

### Measuring principle

Cell growth

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### Application

Cell growth and biomass in fermentation processes

Monitoring of algae concentration

Control of crystallization processes

Suspended solids measurement

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### Measurement range

0 to 4 AU

0 to 8 OD (depending on optical path length)

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### Design

Hygienic design:

Sterilizable and autoclaveable

Sapphire windows without seals and crevices

CIP/SIP resistant

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### Material

Sensor housing: Stainless Steel 1.4435 (316L)

Windows: Sapphire

O-ring: EPDM

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### Process temperature

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Max. 135 °C for max. 2 hours

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### Process pressure

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(Max. 150 psi at 194 °F)

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### Ingres protection

IP68

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