Cell growth and biomass sensor OUSBT66

Hygienic NIR absorption measurement in fermentation and crystallization applications

More information and current pricing:
www.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 autoclavation. Equipped with NIST-traceable and certified clip-on filters, OUSBT66 is outstandingly easy to calibrate and verify.

Features and specifications

Concentration

Measuring principle
Cell growth

Application
Cell growth and biomass in fermentation processes
Monitoring of algae concentration
Control of crystallization processes
Suspended solids measurement

Measurement range
0 to 4 AU
0 to 8 OD (depending on optical path length)

Design
Hygienic design:
Sterilizable and autoclaveable
Sapphire windows without seals and crevices
CIP/SIP resistant

Material
Sensor housing: Stainless Steel 1.4435 (316L)
Windows: Sapphire
O-ring: EPDM

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)

Ingres protection
IP68

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