

ALCOSENS for Alcohol Determination in Fermentation Processes



Characteristics:

- ✓ Online determination of different alcohol compounds or other volatiles
- ✓ Continuous display of alcohol concentration and temperature
- ✓ Probe available in standard sizes and for customized application
- ✓ To be connected with existing control equipment
- ✓ Sterilizable (SIP) and CIP-able (Cleaning in place)

Products for Biotechnology





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Alcosens Application 1:

Process control in acetic acid fermentation

Inline probe **ALCOSENS IIa** and amplifier **ACETOMAT III** for alcohol determination in the range of **0.1 - 6 % EtOH** are worldwide standard for 24 h automated process without man/machine interaction for acetic acid fermentation in repeated batch, repeated fed-batch or continuous fermentation mode.

Alcosens Application 2:

Production of antibody fragments with Pichia Pastoris

Sterilizable inline probe **ALCOSENS** and amplifier **ACETOMAT II/III** for methanol determination in the range of **0.01% - 2 %** alcohol. The system can be fitted to the bioreactor via a standard 25 mm (Ingold) port. The signal is usable for kinetic evaluation, improvement of fed batch strategies and documentation purposes.



Alcosens Application 3:

Online slop analysis in alcohol rectification plants

To optimize the distillation process and to reduce energy consumption in alcohol plants FRINGS has developed the online measuring system **DESTSENS**. It determines the ethanol content in the range of **0.01 - 0.6 % ethanol**. The system has to be installed in the non explosion proof area near the distillation column. The slop is transferred through a heat exchanger into the measuring chamber where the alcohol content is determined by an **ALCOSENS** probe.

Specification:

Ethanol control range:	0-15 %
Recorder output:	4-20 mA or 0-10 V
Body:	ANSI 316
Size:	19 mm and 25 mm port
Lengths:	105 / 120 / 220 / 320 mm
Pressure max.:	2.5 bar
Operating temperature:	20-143 °C
Carrier gas supply:	20 ml / min

