



*Process***TRACE**

**On-line analyzing system
for monitoring bioprocesses**

- **Glucose**
- **Methanol**
- **Ethanol**
- **Lactate**
- **Sucrose**

ProcessTRACE

is a special solution for the on-line analysis to monitor and control fermentations and cell cultures.

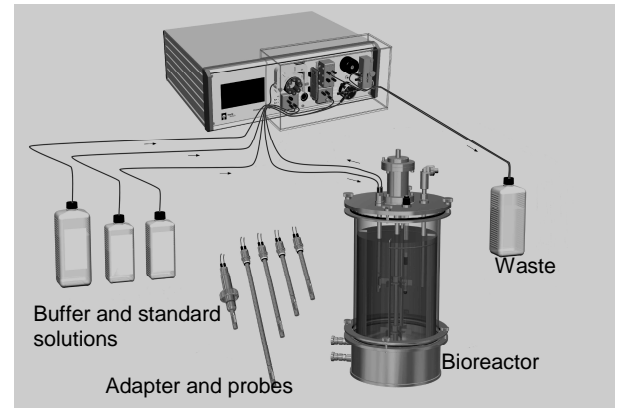
Features:

- On-line measurements of nutrients for biopharmaceutical processes
- Optimization of feeding strategies
- Documentation of the process flow for quality assurance
- Sterile sampling
- Fast and continuous measurements
- Economies to off line measurements

Three different sampling methods ensure a sterile process interface to ProcessTRACE

- **Filtration probe**
- **Patented dialysis probe**
- **Bypass module**

Each method guarantees sterile sampling without any previous sample preparation



Specifications:

Operating mode	on-line and off line
Measurement principle	enzymatic-amperometric
Sampling method	filtration probe, patented dialysis probe, bypass module
Analytes	glucose, methanol, ethanol, lactate and sucrose
Measurement frequency	up to 30 per hour
Standard deviation	< 3.0% for 10g/L glucose
Measuring range	glucose 0.01 – 40 g/L, sucrose, methanol 0.5 - 40 g/L, lactate 0.5 – 20 g/L, ethanol 1.0 - 40 g/L
Dimensions	(WxHxL) 470 x 160 x 400 mm
Weight	8,7 kg
Power	110...120/220...240 VAC; 50/60 Hz

Flowcell

Configuration	wall-jet
Electrodes	sensorchips as biosensors; special sensors and enzyme reactors on request
Material	PEEK/ PMMA

External Connections:

Analog output	0...10V / 0...20mA / 4...20mA /
Parallel output	Centronics
Serial output	RS 232



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