



# *Multi*TRACE

## **Parallel on-line monitoring of up to six bioreactors**

- On-line measurements of nutrients for the pharmaceutical production
- Economies of parallel measurement of up to six bioreactors
- Fast and continuous measurements
- Measurement frequency selectable as desired

# MultiTRACE

is an effective additional tool for the well proven on-line analyzing system ProcessTRACE for parallel measurement of up to six fermenters.

- in small-volume laboratory reactor series or cubic-meter sized production fermenters.
- with the industrial filtration probe or the patented dialysis probe guaranteeing sterility without sample processing.

MultiTRACE enables a cost-efficient and time-saving optimization of medium composition and cultivation strategies.

Always used in combination with ProcessTRACE, the MultiTRACE provides parallel measurement of the key parameters **Glucose, Methanol, Ethanol, Lactate or Sucrose**.

Measurement intervals from 5 minutes to 24 hours can be selected as desired – irrespective of the channel.



## Specifications

(in combination with ProcessTRACE):

Number of fermenters	up to six
Measuring principle	enzymatic-amperometric
Measurement sequence	flexible
Measurement interval	5 minutes
Sampling methods	Dialysis probe (patented), Filtration probe, Bypass module
Analytes	Glucose, Methanol, Ethanol, Lactate and Sucrose
Standard deviation	< 1,5% for 10g/L Glucose
Measuring ranges	Glucose, Sucrose, Lactate < 40 g/L, Methanol < 8 g/L, Ethanol < 15 g/L
Dimensions	(WxHxL) 470 x 160 x 400 mm
Weight	7,2 kg
Power	110...120/220...240 VAC; 50/60 Hz

## External connections:

Analog output	six fold 0...10V / 0...20mA / 4...20mA
Interfaces	RS 232, Centronics, optional Can-Bus, Profi-Bus



**TRACE**  
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