



# **ProcessMonitor**

**On-line Monitoring in cGMP  
Industrial Bioprocesses**

# ProcessMonitor

provides solution for a reliable biopharmaceutical production process. Taking advantage of the ProcessMonitor combines measurement precision, robustness and reliability in order to ensure production effectiveness and product quality.

## Features:

- On-line measurements of glucose, methanol or ethanol in biotechnological production or pilot plants with the filtration probe ESIP
- Reliable pressurized liquid delivery system with a maximum of measurement frequency, correctness and precision
- User-friendly software with multiple alarm system and touch-screen control
- Validated design and function based upon cGMP and FDA- guidelines
- Robust stainless steel cabinet with automated thermostat control

## Benefits:

- Precise process monitoring and control
- Increase in operational reliability
- Connectivity to process control systems via Field-BUS / Profi-BUS
- Fully integrated on-line sampling
- Cost and time savings
- Stable production conditions
- Complete quality monitoring and documentation



Control panel ProcessMonitor

## Specifications:

Analysis method	flow analysis system based on injection / dialysis
Measuring principle	enzymatic-amperometric
Sampling system	filtration probe ESIP Process
Analytes	Glucose, Methanol or Ethanol
Measurement frequency	up to 30 results per hour
Deviation	< 2,0%
Measuring range	0.1 - 20 g/L depending on application
Environmental temperature	10 - 45 °C
Drift	<5% / 12 hour (automatically compensated)
Status messages	carrier level, calibrations, sensor quality, leakages, pressure, ToF, minimal value, temperature
Analog output	0...10V / 0...20mA / 4...20mA /
Serial output	RS 232 including alarm and calibration data output
BUS connection optional	Profi-Bus, Field BUS



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