Quality and Efficiency of Bioprocesses

PAT Master System (PAT-MS)

connects in a flexible way multiple bioreactors with diverse analysers or sample storage systems

- "Sterile Sample Interfaces" (SSI) at each reactor
- Decentralised Solution with Profibus-communication
- Modular extendable system

The PAT Master System manages the following basic operations and functions

- Sterile Sampling
- Sample Transport
- Sample Processing
- Supply of Processed Samples to Analysers or Sample Storage Systems
- Control of Basic Analyser Functions / Data-Import / Data Evaluation

Wasser Druckluft

1.00p Luft 🔽 💫

- Control of Sample Storage Systems/Documentation of Sample Attributes
- Transfer of Validated Data and Coordinated Operation with Superior Systems

SIMATIC MULTI PANEL

abiotec

(SCADA/PIMS)

R&I-Status

Peton

Prot

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Ethanol H3PO4

FH3P04

V4

V3 🄽

Exemplary Set-up for a Heterogeneous Installation connecting diverse

- Bioreactors (bench-top and pilot scale) with multiple
- Process Analysers and

The system controls in an

operated with several analysers)

• Frequency of analysis (avoids conflicts when being

• Sample volume (minimized void volumes and total

Important: No cross contamination

optimized manner ...

sampling volumes)

- Sample Storage System





