BioPAT® MFCS
The New Standard in Bioprocess
Data Management
Developed for the Process – Designed for You!

BioPAT® MFCS enables you to incorporate a new standard in bioprocess data management and automation. Its reliable data acquisition, efficient trend monitoring and advanced recipe control make it an ideal tool for all upstream and downstream processes, no matter if you prefer single-use or reusable systems. The new BioPAT® MFCS is your solution for robust and reproducible processes – all backed by our expertise since 1986.

Clear Composition and Design
Experience the attractive and modern software design of BioPAT® MFCS. The intuitive workflow facilitates your daily tasks and its amazingly simple navigation allows rapid access to all the process-relevant information.

Cutting-edge and Compatible Technology
BioPAT® MFCS is compatible with the latest off-the-shelf hardware and software. Quickly collect your data and store it safely in the searchable SQL-database. You will benefit from high performance, scalability and high availability.

Sartorius Service and Support
The Sartorius Service will help you to get the maximum out of your new BioPAT® MFCS. Extensive email support and the possibility to download the most recent version with the latest functionality will ensure reliable operation and easy handling.
**Intuitive Navigation**
Benefit from the easy access to all main operation areas of BioPAT® MFCS.

**Quick Overview**
Quickly switch between up to 24 Units and get all relevant information at a glance.

**Connectivity**
Integrate PAT sensors and analyzers via OPC for enhanced process knowledge.

**Calculation Capabilities**
Calculate important bioprocess parameters and non-direct measurable variables with the calculation module.

**Focus on Essentials**
Get the right focus for a fast and clear data inspection with the slidable time bar.
**Data Integrity & Security**
High quality data collection in a fast, powerful, and searchable SQL-database.

**Easy Comparison**
Compare up to 12 real-time process values in an online configurable trend.

**Eye-Opening Performance**
Use multi-monitoring access capabilities to boost your productivity.

**Centralized Storage**
Enter off-line process data with the sample data module.

**Process Safety**
Let the alarm management system take care of process limits.

**Data Integrity & Security**
High quality data collection in a fast, powerful, and searchable SQL-database.
Turn Advanced Process Strategies into Reality

Easy Configuration
Get started immediately and implement your process strategies.

Quick Access
Pre-defined functions are right where you need them.

Intuitive Use
Clear workflows for maximum productivity.

Features
- Intuitive graphically guided configuration
- Drag & drop operations and phases
- Sequential, parallel and repeated execution of phases
- State and time-dependent transitions
- Pre-defined phase types for setpoints, feeding profiles or timers

Benefits
- Improved batch-to-batch consistency
- Decreased risk of errors
- Minimized number of rejected lots
- Automated processing to free up operator time
- ANSI-88 compliant standardized automation

Application Example
- Event-based activation of control loops
- Automatic batch end detection, e.g. based on pO2 | offgas measurements
- Implement advanced feeding strategies for fed-batch processes

Automatically Switch between Process Phases

BioPAT ® MFCS Recipe Control Module
Extend the Possibilities of BioPAT® MFCS

**Recipe Control Module**
ANSI-88 compliant batch control for robust process automation

**OPC DA Client Module**
Connect additional equipment, e.g. BioPAT® Trace, BioPAT® Xgas

**Sample Data Module**
Integrate and manage off-line sample data

**Calculation Module**
Create soft sensors to access non-directly measureable quantities, e.g. OUR, RQ

**Charting Module**
Advanced visualization capabilities to compare live and historical batch processes

**Multi User Option**
Monitor and control your process from up to 30 BioPAT® MFCS clients simultaneously (RDP supported)
Minimum System Requirements

**Server & Client standalone**

**Installation**
- 4-core 2.5 GHz processor
- 8 GB memory (RAM)
- DirectX 10 graphics device (1 GB)
- Network card (1 GB)
- 50 GB hard disk space
- 15.6” monitor (1366 x 768)

**Multi User Installation**

**Client**
- 4-core 2.5 GHz processor
- 4 GB memory (RAM)
- DirectX 10 graphics device (1 GB)
- Network card (1 GB)
- 50 GB hard disk space
- 15.6” monitor (1366 x 768)

**Server**
- 8-core 2.5 GHz processor
- 16 GB memory (RAM) + 2GB per Terminal Server session
- Network card (1 GB)
- 250 GB hard disk space RAID 1 or 5

**Supported Operating Systems (64-bit)**
- Windows® 8.1
- Windows® 10

**Supported Virtual Environments**
- VMware® Workstation
- Hyper-V®

Ordering Information

**Software**
- **BioPAT® MFCS 4 Standard Package** 1 Unit

**Additional Software Modules and Options**
- BioPAT® MFCS 4 Recipe Control Module
- BioPAT® MFCS 4 OPC DA Client Module
- BioPAT® MFCS 4 Sample Data Module
- BioPAT® MFCS 4 Calculation Module
- BioPAT® MFCS 4 Charting Module
- BioPAT® MFCS 4 Multi User Option
- BioPAT® MFCS 4 Microsoft® SQL Server 2014 Standard Runtime (Server, 64-bit) University

BioPAT® MFCS is available for up to 24 Units. Please contact your local sales representative regarding a license for more than 1 Unit.

**Upgradable with Upcoming Modules**

Additional modules (e.g. User Management and OPC UA Server) for the adaptation of BioPAT® MFCS to your individual process requirements will be available soon.

Learn more about BioPAT® MFCS and download the demo version. Stay up-to-date about the latest product and security updates and visit BioPAT® MFCS website for more information.

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