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Open Interface

DASware® migrate software—the online matchmaker in bioprocess control

DASware® software solutions are well-known as a synonym for advanced bioprocess development.

Add DASware® to Your Existing Bioprocess Controller

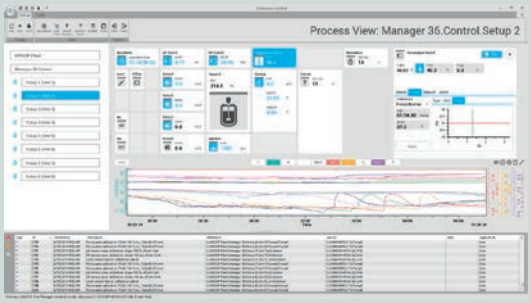
DASware migrate provides the gateway to use all DASware solutions and DASGIP® modules with legacy benchtop bioreactor control units. Users of Eppendorf New Brunswick™ and third-party controllers from Sartorius®, Applikon®, and others will profit from adapting the excellent DASware software functionalities to their bioprocesses. Process development according to QbD guidelines, automation by integration of online analytics, and interconnectivity with corporate IT systems results in time- and cost-effective time-to-market.

Users benefit from a comfortable, user-friendly and comprehensive bioprocess management tool for multiple bioreactors on the market.

DASware migrate has been proven effective in the integration of Eppendorf New Brunswick BioFlo®/ CelliGen® 115 & 310, BioFlo 320 and 415, and CelliGen® BLU as well as Sartorius BIOSTAT® Bplus DCU and Applikon 1010, 1030 & ez-Control. It also allows for mixed system control with user-friendly batch-to-batch comparison.

Process Development in Line with QbD Guidelines

DASware migrate facilitates Quality by Design (QbD) approaches in bioprocess development, regardless which legacy benchtop bioreactor equipment is used. It opens up the possibility to use all functions of DASware software:



DASware® control: Advanced bioprocess control
Our bioprocess control software DASware control follows our easy »Point-Click-Grow« concept. Readily applicable recipes with incorporated batch functionality are designed to reflect process control needs. Stored as recipe templates, these predefined strategies can be emailed, loaded, changed, saved, and executed immediately.

DASware® access:
Remote control—anytime from anywhere
Running bioreactor processes can be remotely observed and controlled from everywhere. All modifications to process values are tracked and logged in a central database for complete documentation whereas data security is ensured by established IT security mechanisms. DASware access uses Wi-Fi, Intranet, VPN, and 3G connections to provide access via PC and Notebook. The universal DASGIP iApp supports access from iPhone®, iPod touch® and iPad®.

DASware® analyze:
Integration of third-party analyzers and autosamplers
An OPC network protocol allows for interconnectivity between bioreactors systems, autosamplers, and analyzers such as cell counters, biomass monitors, nutrient analyzers, mass spectrometers or HPLCs. DASware analyze makes direct feedback from the bioreactor system possible in response to online measured analytical data. It supports online calculations as well as event- and data-driven decisions.

DASware® design: Supports Design of Experiments
With DASware design automated DoE workflows can be applied to the bioprocess to identify critical process parameters (CPPs) systematically. An integrated full factorial DoE builder as well as integration of a large variety of third-party DoE designs e.g. JMP® and multivariate analysis tools facilitates finding a proper design space for manufacturing processes. A recipe generator supports multiple system set-ups. Following the Point-Click-Grow concept they can be carried out on a set of bioreactors with a single mouse click.

DASware® discover:
Comprehensive information management
Configurable and retrievable CPPs can be online or retrospectively added to process runs. Intuitive queries allow for near real-time retrieval of runtime information from a SQL Server® database. A Microsoft® Excel® report generator provides recipe information, process information, and event reporting. Users can simultaneously compare process information from either current or historical runs.

DASware® connect: Integration with legacy control
Using DASware connect all bioprocess information can be integrated with legacy control systems and corporate historians such as Emerson® DeltaV, Siemens® SIMATIC PCS 7, ABB® 800 xA, OSIsoft® PI System and Matrikon® OPC Historian facilitating a company-wide access to all relevant bioprocess data. Also, it supports interfacing with scientific software packages like LabVIEW® and MATLAB®.

DASGIP® modules in use with legacy equipment
DASware migrate easily supports third-party bioreactor controllers with DASGIP GA4 exhaust analyzers, DASGIP OD4 biomass monitors, DASGIP MP8 multi pumps and DASGIP MX4/4 massflow-controlled gas mixing stations.

> Move your bioprocess to the next level—with DASware software solutions.
www.eppendorf.com/DASware

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Ordering information

Description	Order no.
DASware® migrate, license for 1 vessel	
for New Brunswick™ controllers	76DWMIGNB
for third-party systems	76DWMIGTP
DASware® migrate, incl. PC, OS	
package to operate New Brunswick™ systems (up to 16 vessels)	76DWMIGNBPC
package to operate third-party systems (up to 16 vessels)	76DWMIGTPPC
DASware® control, incl. PC, OS, and licenses	
for 4-fold DASGIP® system	76DGCS4
for 8-fold DASGIP® system	76DGCS8
for 16-fold DASGIP® system	76DGCS16
for 4-fold DASbox® system	76DXCS4
for 8-fold DASbox® system	76DXCS8
for 16-fold DASbox® system	76DXCS16
for 24-fold DASbox® system	76DXCS24
DASware® access, remote access support (web and iApp) for 1 vessel	76DWACC
DASware® analyze, OPC client standard (OPC DA e.g. for ext. analyzer), for 1 vessel	76DWANA
DASware® analyze, license for serial/Modbus® integration (e.g. for ext. biomass sensors), for 1 vessel	76DWANAM
DASware® analyze, OPC client professional incl. 1x tunneller lic. (OPCDA e.g. for ext. analyzer with autosampler)	
for 4 vessels	76DWANA4P
for 8 vessels	76DWANA8P
for 12 vessels	76DWANA12P
DASware® analyze, cable and license	
for 4 Aber Futura® sensors	76DWANA4AF
for 4 Hamilton® Fogale sensors	76DWANA4HF
DASware® connect, OPC server (OPC DA for ext. PCS), for 1 vessel	76DWCON
DASware® design, DoE and local information management, license for 1 vessel	76DWDOE
DASware® discover Client License, for 1 vessel (SQL Server®-based information management)	76DWDIS
DASware® discover Information Management Server, PC hardware, OS software, and server licence	76DWDISPC
DASware® discover Server License, SQL Server®-based information management	76DWDISS

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