Unified Bioprocess Management

One solution for all parameters and applications
What is BlueVis?

Are you looking for an opportunity to optimize bioprocessing? Discover the new BlueVis 4.0 – a new high performance software which helps you to manage your bioprocesses in the most efficient way.

Your Advantages:

- integrated and open software solution
- connect various sensors and probes
- keep track of the important process parameters
- parallel and real-time measurement
- data can be provided to a process lead system (PLS) via OPC server
WHY USE BLUEVIS?

Once inserted, BlueVis will process, log and visualize vital data of up to 12 bioprocesses in parallel and in real time. So you will be always informed about the status of your processes – early enough to react quickly.

With BlueVis you can easily overview and control the most relevant process parameters: pH-value, pO2, CER, OUR and glucose.
With BlueVis you are able to connect a variety of probes and sensors via RS232 and RS485. Even already purchased devices can be connected.

<table>
<thead>
<tr>
<th>Brand</th>
<th>For</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlueSens</td>
<td>$O_2$, $CO_2$, $H_2$, $CH_4$, ethanol</td>
<td>gas</td>
</tr>
<tr>
<td>TRACE Analytics</td>
<td>glucose, lactate methanol and ethanol</td>
<td>liquid</td>
</tr>
<tr>
<td>Hamilton probes</td>
<td>pH, DO, etc.</td>
<td>liquid</td>
</tr>
<tr>
<td>Other sensors and probes</td>
<td>various</td>
<td>various</td>
</tr>
<tr>
<td>via RS485/USB</td>
<td></td>
<td></td>
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<tr>
<td>Soft sensors by BlueSens and</td>
<td>OUR, CER, RQ, growth rate, biomass</td>
<td>various</td>
</tr>
<tr>
<td>EXPUTEC</td>
<td></td>
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</table>
HOW IT WORKS:

Visualization
With BlueVis you are able to monitor and to visualize your process in real time. You can also easily set up your own graphs with all needed information.

Logging
BlueVis will save all the measurement data in log files. You will receive the complete documentation. If needed all data can be exported into .CSV or .XLSX files.
HOW DOES IT MAKE YOUR MEASUREMENT EASIER?

During the running process it is very important to keep control of the big picture. With BlueVis you can monitor your process with the connected sensors and probes. You can also control your process with connected actuators like pumps, mass flow meters, stirrers and cryostats etc.

YOUR ADVANTAGES:

- CER, OUR, RQ (by BlueSens), growth rate and biomass (by integrated EXPUTEC soft sensor)*
- regulation of feed rate, stirring rate, pH-value, pO2 etc.
- parallel and real-time measurement of up to 12 processes

* The usability of the soft sensors depends on the set-up of the process and may require additional equipment.
For me it is important to identify the key parameters in the first step. This gives me the certainty for the following run.

WHAT’S THE CLOU?

Identifying the main process parameters is the key to efficient bioprocessing. For a lot of processes the OUR, CER, RQ, the growth rate and the biomass are main indicators of the metabolic state. BlueVis calculates these important parameters with the integrated soft sensors and works with the measurement data from the connected sensors and probes.
UNIFIED BIOPROCESS MANAGEMENT

ONE SOLUTION FOR ALL PARAMETERS AND APPLICATIONS

- integrated and open software solution
- automatic calculation of process parameters
- regulation of feed rate, stirring rate, pH-value, pO2 etc.
- connect various sensors and probes via RS232/RS485
- OPC-Server included