Intuitive user interface and extended MES functionality

The new Operation Manager is the central user interface for operations and is available not only for the standard brewmaxx process control system but also for all add-ons and modules. The expanded user interface complies with the latest usability standards and facilitates operation, monitoring and control of production processes in a brewery. The presentation of process areas and MES functions, editable menus and numerous new processing functions enable intuitive and effective utilisation of the control system.

All the elements of the new interaction main menu can be added to the dashboard via drag & drop. A dashboard can be created and saved individually for each user. The new function for displaying process pictures on several monitors is particularly convenient. Process pictures can now be moved from the Operation Manager to other monitors.

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It has never been easier to create complex process images using brewmaxx. The new Process Screen Designer is an integral part of the brewmaxx process control system and offers an extensive library of brewery-specific graphic objects which can be simply added via drag & drop. Prototypes already have pre-settings (e.g. graphics object, unit) and only have to be linked to the automation object after being added to the process picture. Automation objects on the other hand already feature all the required settings, e.g. PLC source link. The new vector-based graphical elements are fully scalable and provide optimum display quality for high-resolution process pictures.

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The industry sector solution for breweries

The greatest advantage of innovex in its modular system architecture. The modular system components can map any new size and shape of a brewery and offer a new world of integrated automation solutions. The brewmaxx basic system as well as all the other components can be controlled centrally, with the individual components being functionally separated. All the individual modules can be recombined without any restrictions.

brewmaxx – the process control system with recipe management

Even the brewmaxx basic system offers an extensive range of services for the specific requirements of breweries. Equipped with process-recipe-management and a high-performance real-time database, a brewery-specific system topology for workflow-controlled processes and task force management with regard to the lifetimes of the process control system is a backloger-solution for handling complex process engineering tasks.

Add-on brewmaxx Visu-Recorder

Brewmaxx-Visu-Recorder is a special brewmaxx feature. The add-on records process sequences and values and outputs them via the standard user interface of the control system. The display is added directly via the operation interface – playback can be controlled like using a media player. The file window and output speed are freely definable. Selection of the process operation via a high-resolution display, e.g. for error diagnosis, process sequence selection, staff training, as well as audits and qualification measures.

Add-on brewmaxx Messenger

brewmaxx Messenger enables technical communication directly from the control system to defined persons. The optional remote messaging system supports various communication channels, such as e-mail and text messages.

The brewmaxx system components

brewmaxx is the product of over 25 years’ certified by experience expertise and experimentation in the development of the brewmaxx process control system. Brewmaxx is the only brewery-specific, plant and process control system available worldwide using an NOC platform from ProL10 Automation to develop a process control system, which meets the maximum of demands, the specific technical know-how of our systems developers was developed with the technological expertise of our user market leaders. In conjunction with intensive dialing with customers and universities, tunings for the future were developed into the preferred system solution for breweries.

1. Parameterisable PCS

The standard data of brewmaxx development to facilitate the implementation of all technical and technological functions software, such as "Preamperation instead of programming" to key to efficient engineering. Due to the unique brewmaxx class concept, yet also software platforms with fully configurable parameters, always current and mandating any scale in the plane. Adaptation can be performed safely and efficiently even well into the production phase.

2. Industry expertise

brewmaxx in the product of over 25 years’ experience and expertise in the management of brewing processes.Born from the desire to develop a process control system, which meets the maximum of demands, the specific technical know-how of our systems developers was developed with the technological expertise of our user market leaders. In conjunction with intensive dialing with customers and universities, tunings for the future were developed into the preferred system solution for breweries.

3. Manufacturer independent solution

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Modular system architecture

Overview of brewmaxx system components...
**The industry sector solution for breweries**

The greatest advantage of brewmaxx is its modular system architecture. The modular system components can make up the process chain of a brewery and offer a seamless transition into automated solutions. The brewmaxx basic system as well as all the others in the range have been architected in a way that can be combined and operated efficiently across process sequences and departments. Brewmaxx is used to interface and evaluate the required data from the individual production areas. Numerous add-ons, for example configure reports for the web browser and mobile devices, provide maximum flexibility and protection when enabling a company-wide MES reporting system.

**The brewmaxx system components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brewmaxx Basic System</strong></td>
<td>The core software that provides a user-friendly interface for plant operators with access to all relevant plant data and production control.</td>
</tr>
<tr>
<td><strong>Integrate</strong></td>
<td>Functions for the visualisation and evaluation of plant data.</td>
</tr>
<tr>
<td><strong>Routing Management</strong></td>
<td>Enables the routing of tasks to workstations, where individual recipes can be automatically transferred to the appropriate tank.</td>
</tr>
<tr>
<td><strong>Visu-Recorder</strong></td>
<td>Records and stores sequences, allowing the reproduction of process sequences and values and outputs them via the standard user interface of the control system. The replay is started directly via the standard user interface.</td>
</tr>
<tr>
<td><strong>Messenger</strong></td>
<td>Provides a flexible messaging system for all plant operators and monitoring personnel.</td>
</tr>
<tr>
<td><strong>Material Management</strong></td>
<td>Provides a comprehensive overview of the inventory management of the different plant areas.</td>
</tr>
<tr>
<td><strong>Connect</strong></td>
<td>Integrates and provides access to information from various systems, such as laboratory or maintenance systems.</td>
</tr>
<tr>
<td><strong>Intelligent Automation Solution</strong></td>
<td>Provides a modular framework for the automation of processes in the brewery.</td>
</tr>
</tbody>
</table>

**Why brewmaxx?**

1. **Parameterised PCS**
   - The modular architecture of brewmaxx facilitates the implementation of all technical and technological functions within a process system, making it easier to set up and design individual production systems.

2. **Industrie-specific**
   - brewmaxx is the product of over 20 years’ experience and expertise in the management of business processes. From the desire to develop a process control system, which meets the needs of customers, the specific technical know-how of the system developers was developed in a close collaboration with the client.

3. **Manufacturer-independent solution**
   - brewmaxx is the only process control system that provides a comprehensive overview of all production processes. Brewmaxx is also capable of further developments and adaptations, which makes it the preferred system solution for the brewing industry.
The greatest advantage of brewmaxx is its modular system architecture. The modular system components can map any process steps of a brewery and offer a seamless integration of the existing automation solutions. The brewmaxx basic system as well as the route control and central recipe controlling infrastructure with a common database and user interface forms the basis for parameterisation. All the brewery modules can be reconfigured.

**Brewmaxx – the process control system with recipe management**

Even the brewmaxx basic system offers an extensive range of services for the specific requirements of breweries. Equipped with production data management and a high-performance real-time database, a brewmaxx-specialised system for workflow-controlled processes and task force management with recipe­ and brewmaxx process control system is a benefit for system NHS. It is a framework for handling recipes and process engineering tasks.

**Add-on: brewmaxx Visu-Recorder**

Brewmaxx Visu-Recorder is a special brewmaxx feature. The add-on sends process sequences and values and outputs them via the standard user interface of the control system. The display is started directly via the operation user interface – playback can be controlled like using a media player. The window window and output path are freely selectable. brewmaxx Visu-Recorder offers the following possibilities. The add-on is, e.g., for exam purposes, process sequence analysis, staff training, as well as audits and qualification measures.

**Add-on: brewmaxx Messenger**

Brewmaxx Messenger enables direct communication from the control system to defined persons. The optional remote messaging system supports various communication channels, such as email and text messaging.

**Add-on: brewmaxx Routing Management**

Brewmaxx Routing Management helps to integrate route-based routing of orders with a route search and selection decision process. The add-on extends the capabilities of the standard route control of the basic system. For example, it automatically finds a suitable target tank, starts the routing and transfers the route via the corresponding app.

**Add-on: brewmaxx Equipment Modules**

Brewmaxx equipment modules replicate the technical functions of various brewing facilities. They control process procedures, built-in or external usage procedures, especially with external systems. Various modules (e.g., CIP, storage systems, fermentation and storage cellars, filling systems, auxiliary plants or CIP) can be integrated and operated infinitely on the basis of a process-compliant warehouse structure and besides provide inventory management also service level investigations and evaluations, is particularly bothersome.

**Brewmaxx control – the interface manager**

Brewmaxx control offers a fully parameterised interface for process control and data exchange – especially with external systems. Various modules (e.g., CIP, storage systems, fermentation and storage cellars, filling systems, auxiliary plants or CIP) can be integrated and operated infinitely on the basis of a process-compliant warehouse structure and besides provide inventory management also service level investigations and evaluations, is particularly bothersome.

**Brewmaxx Integrate – MES functions**

Brewmaxx Integrate offers the “idealisation” of all production processes. In many processes in this case, integrated system solutions (e.g. MES, LM) which can be integrated and operated inflexibly across process sequences and departments. brewmaxx Integrate can be used to image and evaluate the necessary data from the individual production areas. Numerous systems, for example configure reports for the web browser and mobile devices, provide maximum flexibility and protection when realizing a company-wide MES reporting system.

**Brewmaxx material – the process-oriented material management**

Brewmaxx material can be used as a central application for the effective management of raw materials and packaging material processes. It offers process-related materials management with a transactional maximum overview of all material movements. They are recorded on the basis of a process-compliant warehouse structure and besides provide inventory management also service level investigations and evaluations, is particularly bothersome.

**Brewmaxx connect**

Brewmaxx connect offers a fully parameterisable interface for process control and data exchange – especially with external systems. Various modules (e.g., CIP, storage systems, fermentation and storage cellars, filling systems, auxiliary plants or CIP) can be integrated and operated infinitely on the basis of a process-compliant warehouse structure and besides provide inventory management also service level investigations and evaluations, is particularly bothersome.
Intuitive user interface and extended MES functionality

The new Operation Manager is the central user interface for operations and is available not only for the standard brewmaxx process control system but also for all add-ons and modules. The extended user interface complies with the latest usability standards and facilitates operation, monitoring and control of production processes in a brewery. The presentation of process areas and MES functions, editable menus and numerous new processing functions enable intuitive and effective utilisation of the control system.

All the elements of the new interactive main menu bar and from the side-outside menu can be added to the dashboard via drag & drop. A dashboard can be created and saved individually for each user. The new function for displaying process pictures on several monitors is particularly convenient. Process pictures can now be moved from the Operation Manager to other monitors. The new user interface of the Operation Manager has been optimised for use with multi-touch screens. This ensures simpler operation of the touch-based panels with multi-finger operation.

brewmaxx Integrate extends the MES functionality of the standard process control system. It is a MES report system which is separate to the productive server and compiles the historic data of a brewmaxx server and calculates the production-related data stored in an operational data store (ODS). It can be used as a central MES reporting system for breweries and enables the presentation of analyses and production reports, e.g. via web browser. Furthermore, brewmaxx Integrate can be extended with a workflow management system for production-relevant business processes. This database-aided system is usually used for managing and monitoring manual processes in the production environment.

It has never been easier to create complex process images using brewmaxx. The new Process Screen Designer is an integral part of the brewmaxx process control system and offers an extensive library of brewery-specific graphic objects which can be easily added via drag & drop. Prototypes already have pre-settings (e.g. graphic objects, units and unit) and only have to be linked to the corresponding automation object after being added to the process picture. Automation objects on the other hand already include all the required settings, e.g. PLC source link. The new vector-based graphical elements are fully scalable and provide optimum display quality for high-resolution process pictures.

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Process control technology. MES included.

The Plant iT™ industry solution for breweries.

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