brewmaxx

Process Control Systems. MES inside.

The Plant iT™ industry solution for breweries.

Works with EcoStruxure™

brewmaxx Equipment Modules

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ProLeiT

by Schneider Electric

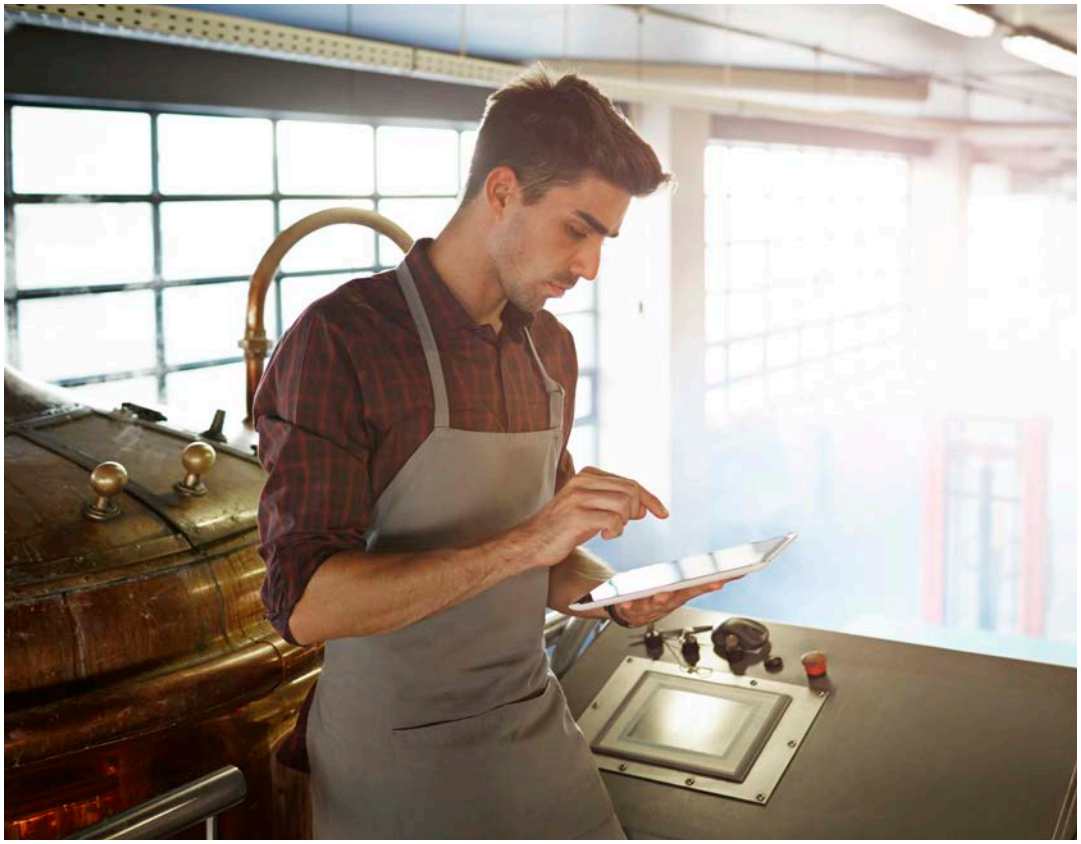
Areas of application

brewmaxx Equipment Modules (brewmaxx EM) encapsulate the technological functions of brewing facilities. One of the great advantages of brewmaxx EM is their enormously high degree of standardization, maximum security, and their transparency and usability. They independently control complex sequences (semi-automatic). The option of transferring technological parameters from a higher-order procedure or linking parameters directly to equipment ensures the greatest possible flexibility and functional reliability.

The various Equipment Modules are context-specific applications and optionally available as an add-on for the base system.

Benefits for customers

- Critical process flows are already validated. Therewith brewmaxx EM are ensuring an additional production safety.
- Complicated processes can also be controlled by the operator in semi-automatic mode with the help of brewmaxx EM (e. g. roller start-up of Mill, raking machine control lauter tun, cooling zone management/releases etc.) even by non-expert operator staff.
- Direct parameter input and visualization of the sub-processes/functions directly in the modules and associated dialogues.
- brewmaxx EM are providing a secured and approved implementation of the technological specifications of the respective plant manufacturer.
- Downtime during commissioning is reduced as semiautomatic functions like tank cooling is immediately available after start-up of brewmaxx.



List of all brewmaxx Equipment Modules

The following brewmaxx EM are currently available:

- Class: **PolyEM**
  The Polygon EM calculates a value (Y of X) of a polygon. Several polygons are stored in the database. Recipe-based data can be selected via step chain and then uploaded to the PLC.
- Class: **WCEM**
  The Wort Cooler EM cools down a product as constant as possible. This EM works with two cooler. It works with a build-in start-up and restart function.
- Class: **WMEM**
  The Water Mixer EM mixes water and makes it available with a constant temperature and a constant flow. It works with two or three regulating valves, and with crossover functionality between flow and temperature.
- Class: **LTEM**
  The Lautertun EM steers the raking machine in a Lautertun. Over the interface of the unit (SEQ), gets the EM the work instructions.
- Class: **AEM**
  The Agitator EM is the module for stirring/agitating.
- Class: **MSEM**
  The MillStar EM controls the mash pump, crushing rollers and feed roller of a wet mill. Also, include the start-up sequence of activation with adjustable timers.
- Class: **PDKEM**
  The Vapour Condenser EM manages the vapour condenser of the wort pan. The energy storage unit is a water tank where the resulting/excess energy should be stored.
- Class **CEM**
  The One-step Cooler EM cools down a product as constant as possible. It works with one regulating valve.
- Class: **TEM**
  The Zone - Temperature Heating EM is used for temperature control. This module can control heating zones via digital valves, as well as via control valves with analog signal.
- Class: **HEM**
  The EM heating zone is used for temperature control. It can control heating zones via digital valves as well as via control valves with analog signals. Mostly used on Mash tun and Cereal cookers.
- Class: **EZKEM**
  This module cooles single zones of a vessel to a target temperature. Enables controlling of up to 8 valves dependent to a filling level.
- Class: **LTEM_ZM**
  The Lautertun_ZM EM steers the Raking machine in a Lautertun. Over the interface of the unit (SEQ), gets the EM the work instructions. This one is especially for the water hydraulic Lautertun
- Class: **AEEM**
  The Extract-Value EM determines on the basis of at least two entered extract values at certain times when the target extract value is or will be reached.

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