

Software Batch-PMS

Batch Process Management System



! Benefits

- Simple and modular operating concept including multi-user operation
- Easy integration into existing network and system infrastructures
- Outstanding connectivity
- High data safety including integrated backup functionality

The PC-based software Batch-PMS enables the operation, monitoring and control of batch-oriented and recipe-based production processes. The integrated control system makes it easy to automate weighing and process batch applications.

For automated and reliable batch processes in your production

- ① The modular software Batch-PMS performance spectrum covers both **simple and complex batching processes** with all the basic functions of current process control technology and multi-user operation.
- ① The Batch-PMS structure allows **flexible connection** to external systems, both in the area of process control (PLC) and to higher-level ERP and database systems.
- ① Batch-PMS guarantees a **seamless integration** into your network and system infrastructures. The integrated process visualisation allows quick status overviews and easy operation.
- ① Due to its **integrated backup** functionality the software ensures the safety of your data.

The right solution for all of these applications:



Weighing



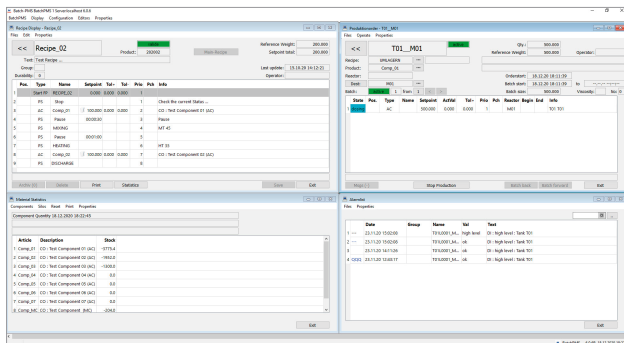
Filling and dosing



Statistics

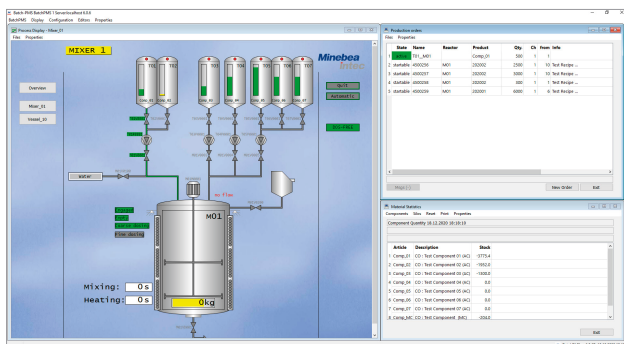
Technical specifications

Software Batch-PMS – Data Management



- Material management including leading components and adjustment components
- Silo management
- Recipe management (including recipes with sub-recipes and frame/formulation)
- Production, consumption and batch reports
- Material and recipe tracking
- Error and alarm logging
- User management with password policies
- Management of language and terminologies

Process Control and Production Management

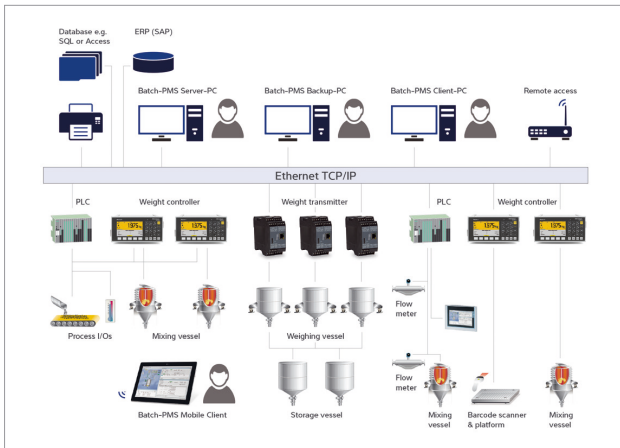


- Manual/automatic and multi-component/level batching
- Automation of process steps with prioritization (heating, mixing etc.)
- Production order management and -plan management
- Automatic recalculation of component set points according to recipe total
- Production line independent recipes
- Tank management with level control and calculation of consumption (stock control)
- Trend display
- Alarm system

Backup functionality

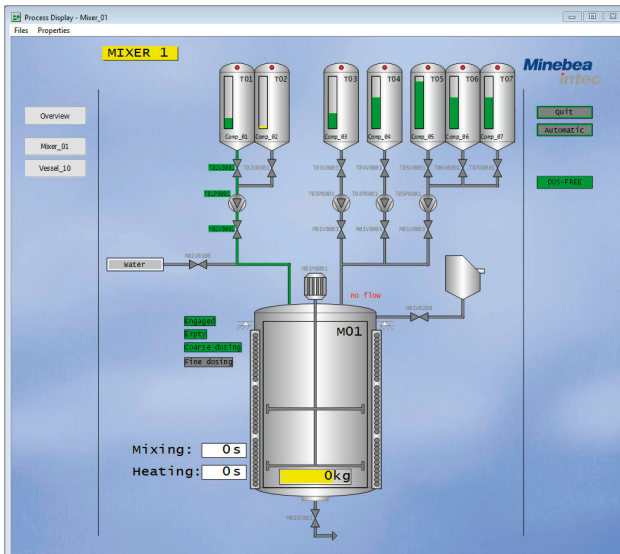
- High data safety due to integrated backup functionality
- Main system periodically copies all batch related data to defined network folders or to Batch-PMS client and remote systems
- Increase of production performance and decrease production downtime costs as client and remote systems can take over the complete operation in emergency cases

Software Batch-PMS – Connectivity



- Scales and weighing points
- Weighing devices of 3rd party manufacturers
- Radar and level sensors
- Overfill protection sensors
- Temperature sensors
- Flow meters
- Actuators, such as valves and pumps
- And further process I/Os

Process visualization



- Tanks, process vessels and mixers
- Scales and weighing points
- Other sensors (e.g. for level, overfill protection, temperature)
- Actuators, such as valves and pumps
- Mechanical constructions such as pipes
- Process steps and recipes
- Batching processes
- Warnings and alarms (e.g. High/High-High Level Alarm)
- Error messages (e.g. communication error)
- Customer and project specific configuration
- Multiple process screens, no restrictions in number
- Process display similar to a P & ID diagram showing tanks, reactors, scales

Software Batch-PMS – Field Operating and HMI

- Operation on several external devices in the field (touch PCs, tablet, industrial HMI panels)
- All Minebea Intec Maxxis weight controller can be configured for use as an auxiliary indicator
- Configurable operator guidance on a wide range of devices/panels

Operating Examples

Maxxis 4

- Application with terminal software
- Display recipe lines
- Operator guidance
- Start/Stop and confirmation of process steps



HMI Field Panels

- Integration of industrial touch panels
- Implementation of industrial operator stations in Ex-zones



Industrial Field-PCs

- Implementation of PC touch panels
- Integration of mobile tablet PCs
- with full operation or
- with functionalities adapted to the operator



Software Batch-PMS – Easy extension

- Easy integration of client and remote systems with full system functionality at any time
- No limitations in the number of client and remote systems
- Easy integration of application specific process steps
- Flexibility and easy software updates and modifications

Engineering

- Central engineering system included, providing all the tools required to configure a complete process control system:
 - Picture editor
 - Mask editor
 - Plant editor
 - Sequence control editor
- Process display similar to a P&ID diagram showing tanks, reactors, scales
- Measurement point definition and configuration (digital I/O, analogue I/O)
- Function plan programming of PLC program (graphical programming)
- Configurable user levels using passwords
- Data export and exchange with ERP Systems, e.g. SAP

Software languages

- Operating dialogue existing in different languages incl. language switch in real time
- Currently available languages: German, English, Polish
- Easy integration of additional languages
- Integration of additional languages via remote connection

Software Batch-PMS – System requirements

Weighing devices

- Weight transmitters, such as PR 5230 and PR 5220
- Weight indicators, such as X3
- Weight controllers, such as Maxxis 4
- Ethernet, Modbus TCP/IP, Profinet and/or Profibus

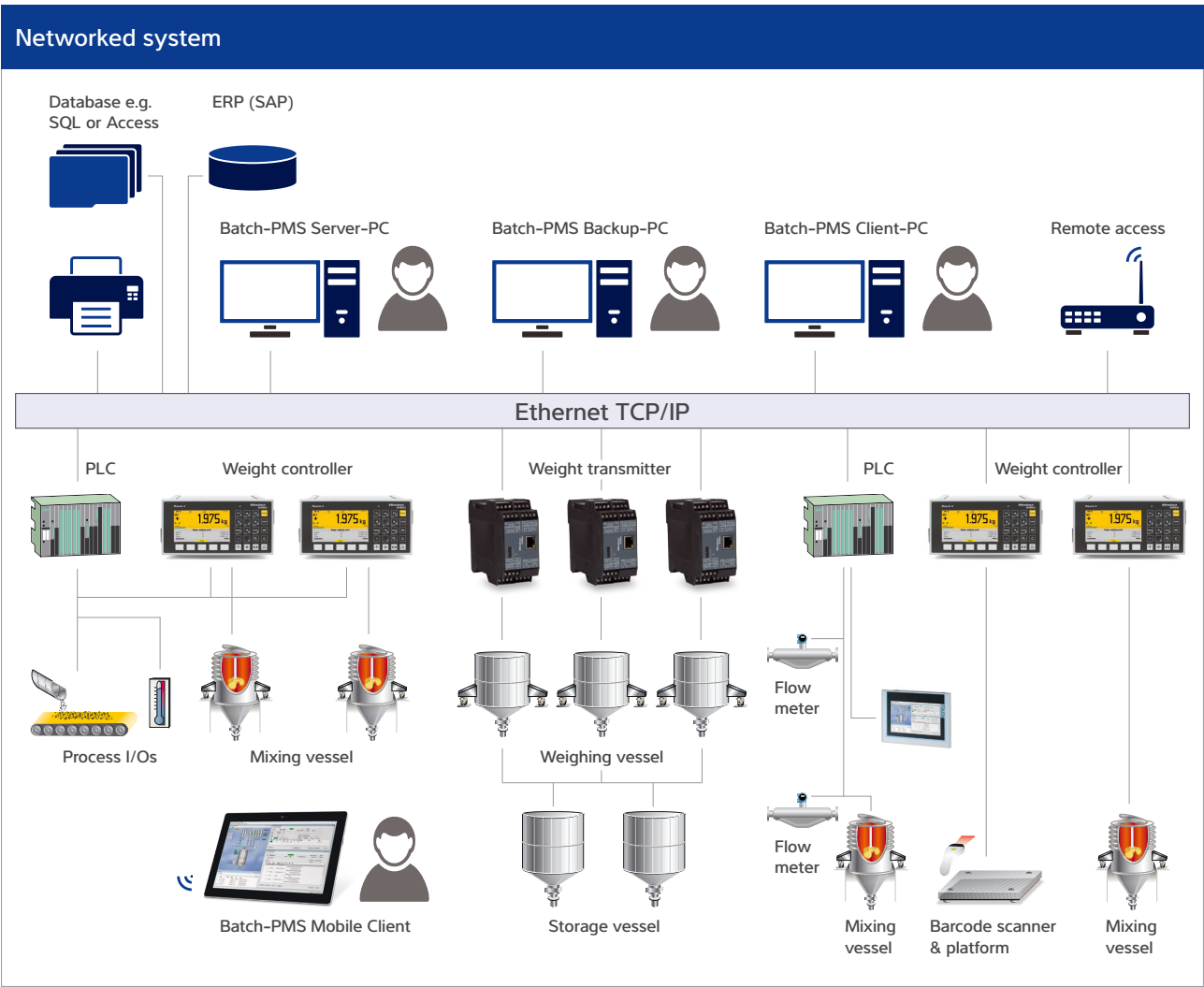
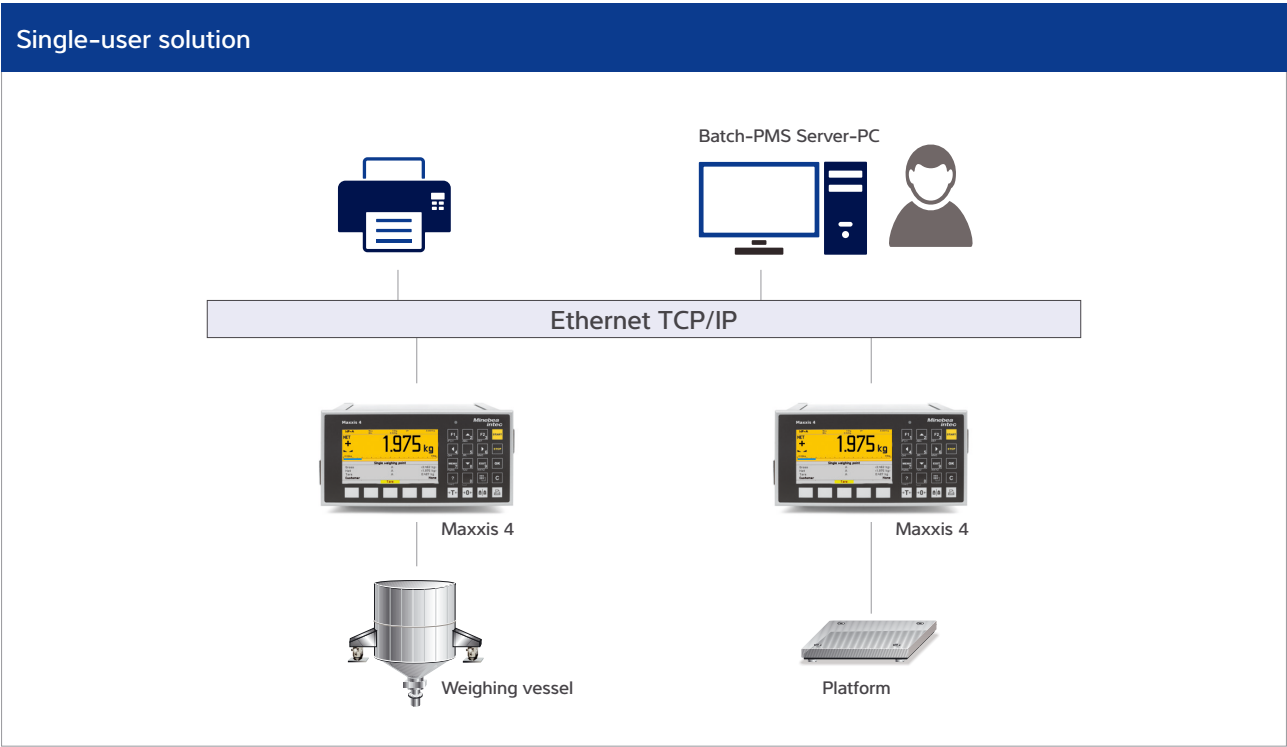
PC Hardware for engineering and operating

- Standard PC with MS Windows 10 Professional (64 bit version)
- Up-to-date performance data

Reference industries

- Food and beverages
- Pet food
- Chemicals
- Petrochemicals
- Cosmetics
- Building materials
- Glass
- Iron and steel

System architecture of Batch-PMS



Ordering information

Software Batch-PMS – Licenses	
Host system/Server	Basic License
	Update License
Remote and client system, 1 st system	Basic License
	Update License
Remote and client system, further systems	Basic License
	Update License
Process visualization module	Basic License
	Update License
Production plan module	Basic License
	Update License
Database interface module (e.g. MS SQL, MS Access)	Basic License
	Update License
ERP/MES data interface module (e.g. SAP)	Basic License
	Update License
Terminal application software for weighing devices	Basic License
	Update License
Software module for manual pre-weighing	Basic License
	Update License
Application software for mobile devices (e.g. tablet PCs)	Basic License
	Update License

Project specific configuration and system layout on request. For further details please contact the Minebea Intec Global Solutions Department via globalsolutions@minebea-intec.com. Phone +49.40.67960.555

The products and solutions presented in this data sheet make major contributions in the following sectors:



Food and beverages



Chemistry



Cosmetics



Building materials

The technical data given serves as a product description only and should not be understood as guaranteed properties in the legal sense.

Specifications subject to change without notice.

Rev. 03/2021

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