LINEMANAGER

Software

Control and analyse your production equipment

Software
LINEMANAGER

With the Pematech LinieManager you will find the suitable software solution tailored to your production line. LineManager acts as a link between your plant and your existing MES or takes over the function of an MES-lite.

In modern plant engineering, the topics of complete traceability and maximizing efficiency are of decisive importance.

MES and traceability solutions offer a holistic approach in manufacturing to improve production processes, ensure traceability of products and components, and increase efficiency and quality. Here, each customer has different requirements and specifications that must be met.

With LineManager and the appropriate software modules, all process information of a production line can be recorded, visualized, secured and made transparent.

The basic version of LineManager includes:

- Basic package with basic functions
- required hardware
- SQL database
- Pematech.Recipe.service

In order to use the LineManager software as a link between your machine your machine PLC and an MES you need the appropriate interface module. This offers several options.

You already have an MES system and would like to connect your production equipment with it?

We offer you the suitable module for the MES systems of different suppliers (e.g. ITAC or STIWA), which enables the connection of the PLC* simly and reliably.

Manufacturer-specific functions and customer-specific functions of the API calls are thus possible. In order to be able to implement all requirements tailor-made, a detailed MES specification is required from our customers.**

You do not have an MES system in your company yet?

The Pematech.MES.lite is a simple MES with graphical evaluation. With the Pematech.MES.lite, the control and evaluation of your production equipment will become reliable, efficient and simple!

Our software solution enables both data acquisition and backup, thus creating the best conditions for a transparent manufacturing process. Pematech.MES.lite offers Traceability functionalities such as quality data collection and process interlocking. The visualization interface can be used to display the status of the production line, evaluations and diagrams. All specified data is stored in a Microsoft SQL database.

Pematech.MES-lite is a stand-alone solution related to the production line and is used, among other things, when the customer does not have a cross-plant MES system or the production site has not yet been defined.

Functions:
- Overview display PASS/Fail over the entire line
- (Live) evaluation of data tables (SQL) in graphical / tabular form
- Evaluations over freely selectable period (shift, days, weeks, months)
- Pareto-presentation of error focal points
- Booking and querying data / interlocking / packing module with container formation (counting)
- Logging status of cells / sections / processes
- Machine faults with text

Depending on the configuration of the LineManager and the optional modules the following functions are possible and can be implemented:

Production control
LineManager provides uniform control over the entire production line.

Recipe management
Our Recipe.service_Module makes it possible to easily create and change predefined production parameters for different products.

Evaluation
All process information can be captured, visualized, saved made transparent and evaluated.
- Order management
- Material tracking
- Machine and production data acquisition
- Process data acquisition

Reporting
User-defined evaluation of stored process, material and machine data.

Remote maintenance
Remote maintenance of your Pematech system and customer-oriented support can be easily implemented at any time by means of a remote connection.

Online process visualization
Process data in real time.

User management
User groups and authorizations definable.

Always tailored to your individual requirements

You can configure the LineManager software and the associated modules to fit your individual requirements.
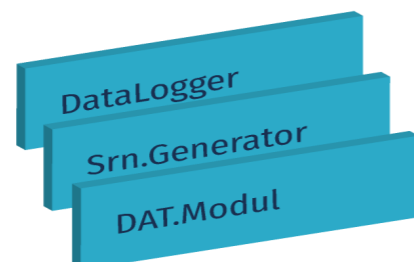
Basis - Software	Modular system	Example configuration

PEMATECH LineManager

inclusive
- RECIPE.service
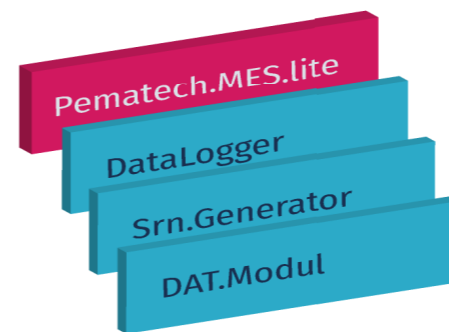- SQL database, connection to data center database or cloud
- Hardware required

MES lite or MES-Connection

Pematech.MES.lite

MES.ITAC.interface

MES.STIWA.interface

MES.FIS.interface

optional add-on modules

DataLogger

Srn.Generator

DAT.Modul

PEMATECH LineManager

Pematech.MES.lite

DataLogger

Srn.Generator

DAT.Modul

Our optional modules

Generate serial numbers
Pematech.SrnGenerator
Unique product identification is essential in the context of trace requirements and product marking. The software module generates a consecutive serial number. Depending on the requirements with additional contents such as date, line no. etc. Depositing and matching in the database ensures that no duplicates are assigned.

Evaluate your data - easy and transparent
DAT.Modul
With our DAT module you can evaluate all data of a production line. Statistical evaluations of tester data, process data, line data and other data can be evaluated and displayed individually or over a period of time, depending on your needs and requirements. You have several options here, for example, the data can be displayed as time interval or in a Pareto evaluation.

Receive different file formats
Pematech.PLCDataLogger
In order to be able to transfer your data easily and in the appropriate file format to third-party systems or devices, we offer the DataLogger module. It allows the specific output of data and values in various formats such as csv file, XML etc. You define in advance which records and values you need and the DataLogger module creates the appropriate file for you.

Data retrieval via an Internet interface
Pematech.SOAP.interface
The SOAP interface is used for database query via an internet interface. The module is an open interface developed specifically for our Line Manager and covers all requirements for an open Internet interface. Project specific, with unique definition of data queries on the server side, we can implement, configure and process in the line.

Customized modules and adaptations
You need a special module or customization? We create customized software solutions for you and your use case.

* The MES system including all licenses is to be provided by the customer. For commissioning, the customer must provide a fully functional test environment to Radolfzell.
** Interface licenses must be purchased for each process to be implemented.

PEMATECH

Pematech GmbH
Robert-Gerwig-Str. 23/25
78315 Radolfzell

+49 77 32 80 07-100
info@pematech.de
www.pematech.de

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