

**ePLAN**<sup>®</sup>  
*electric* 3



**POWER** for  
Electrical planning  
and engineering

*efficient engineering.*

# EPLAN

## Interdisciplinary engineering

Minimise your coordination costs and increase the quality of your engineering. Put your trust in the innovative, practical workflow optimisation solutions from EPLAN Software & Service.



### Interdisciplinary cooperation – best in class

Machine and plant engineers have long recognised that all cogs need to fit perfectly together for everything to run smoothly. This is why the EPLAN Platform incorporates all the relevant departments into the development and design process. This means you can benefit from faster processes, optimised product quality, consistent documentation and reduced costs.

### Depth of integration leaves nothing to be desired

The EPLAN Platform sets the standard for engineering integration: it feeds all the systems from a consistent database. This makes redundancy a thing of the past. The platform also provides the basic functions that are required in electronic CAE, fluid engineering, control engineering and in control cabinet and switchgear construction – such as a graphical editor, a shared permissions administration system, a viewer, translation functions and revision control.\*

### Used virtually everywhere

This openness and the continuity of the EPLAN solutions provide tangible benefits in the everyday engineering process. Example: the devices and operating materials that are implemented in electrical and fluid planning can be directly used for 3D mounting layouts. The data synchronisation that is otherwise needed between programs and the manual return of part list information is unnecessary. Tools from third party providers can be incorporated in the EPLAN Platform.

\*The functions and options shown in this brochure always relate to the maximum configuration of the product.



# FORWARD

looking  
electrical construction

## EPLAN Electric P8 – innovative and flexible

EPLAN Electric P8 provides innovative options for the planning, documentation and management of electrical automation projects. With optional graphical or device-oriented processing and continuous platform technology, this high-end system sets the standard for the future of electrical engineering. Interdisciplinary work becomes a reality due to the functional diversity and the direct link to fluid, EI&C and enclosure engineering.

## You determine the method of operation

The methods of operation in electrical engineering are as diverse as the work itself. Each planning procedure has its advantages in certain project phases – be it generating initial graphical machinery/plant overviews, creating schematics or recording project information in the database independently of the graphics. The ideal situation is for an engineering system to support these different planning approaches with equal priority. You decide which method of operation is the most efficient for you, and EPLAN provides continuous consistency in the project data, regardless of your method of operation.

## Project documentation – quantity and quality

Once it has been recorded in the schematic, the project data forms the basis for almost automatic completion of the machinery and plant documentation. With comprehensive and individually configurable check runs, you determine how strictly EPLAN monitors the quality level of your documentation. Quick revisions and corrections are supported by EPLAN by centrally recording the test results in the message management part of the system. EPLAN automatically creates detailed evaluations as an integrated constituent of the comprehensive documentation, either during the project or immediately after completion. In this way, the downstream stages of the process are provided with all of the required information from the engineering itself – continuous product creation through to manufacturing, installation, commissioning, servicing and maintenance.



# TIME SAVING

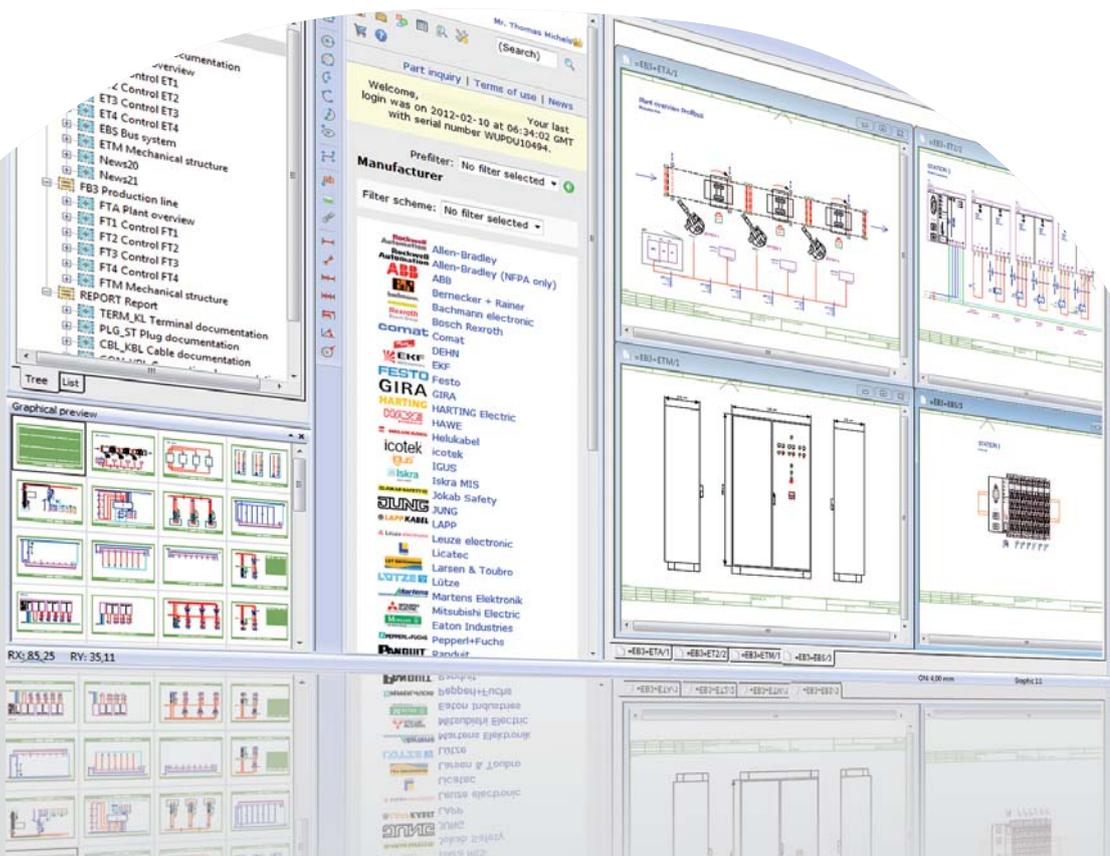
by means of  
standardisation

## Concentrating on essentials

You concentrate on your engineering work, and EPLAN looks after the consistent management of project data. This enables you to quickly create high-quality machinery and plant documentation. Maintain an overview: Manage project data centrally using navigators that provide a central overview and individual processing facilities independently of the graphical display. Every user has a unique viewpoint and work definition. Comprehensive filtering facilities and the individual design of the user interface therefore make it easier to concentrate on essentials and give the engineering process some impetus.

## Variant engineering – innovative, powerful and impressive

Recycling and standardisation are the keywords for saving time over the long term. Schematic macros for easy production of standardised partial circuits speed up your engineering process. EPLAN Electric P8 consistently goes a step further: partial circuits (macros) can contain graphical variants, different types of display and predefined value tables. The structures and circuits of functional units are usually similar – only the dimensioning and variants determine the technical circuit characteristics, specified by the requirements. These variants are created within the partial circuits – instead of modifying individual data items you just select the relevant variant and value sets. An optional, project-wide option system with which entire machine and plant configurations are modified at the push of a button also helps to speed up the process.



Standard conversions and translations remove the boundaries from collaboration – worldwide. Office integration makes it easy to collaborate with departments that do not have access to EPLAN.

# GLOBAL interdisciplinary collaboration

## Internationally standardised and continuously localised

EPLAN Electric P8 supports global standards such as IEC, NFPA, the Russian GOST standard and the Chinese GB standard with appropriate master data and sample projects. The optional standard conversion ensures that you remain competitive as globalisation increases. Thanks to continuous Unicode capability, EPLAN Electric P8 provides schematics in any language on the basis of your individual translation databases – from Chinese circuit diagrams to Russian part lists, everything is translated online or as soon as the plant is complete. Each user simply plans using their native language, and EPLAN translates into the required target language if necessary. One click, and project data is dispatched in a flash by e-mail or PDF export – global data communication!

## Fascinating – additional performance by means of office integration

EPLAN integration in the office environment creates a decisive increase in productivity. The project data that is recorded in EPLAN can be individually configured without programming knowledge, transferred to Excel and processed externally. Quick and easy mass editing, forwarding to external departments without access to EPLAN and data communication with ordering systems allow manufacturing and maintenance to be implemented in a system-independent way.

# FOCUS

on  
products



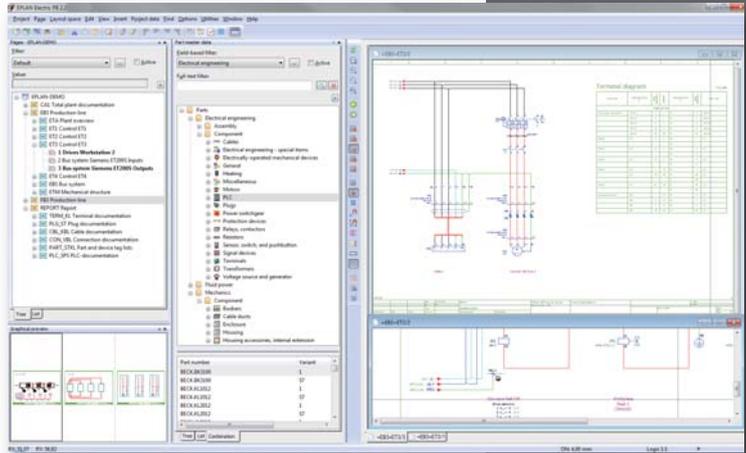
EPLAN Electric P8	Select	Professional +	Ultimate
Assembly Reports	✓	✓	✓
Interfacing	✓	✓	✓
Article Reports	✓	✓	✓
Mounting Panel	✓	✓	✓
Overview Reports	✓	✓	✓
Concurrent Engineering	✓	✓	✓
PLC & Bus Extension	+	✓	✓
Single Line	+	✓	✓
Revision Management	+	✓	✓
Multi Language Translation	+	✓	✓
Project Management	+	✓	✓
User Rights Management	+	✓	✓
Graphical Reports		✓	✓
Project Options		✓	✓
EPLAN Operational Sequence	+	+	✓
Netbased Wiring	+	+	✓
Multuser Management	+	+	✓
Change of Standard	+	+	✓
Project Reference		+	✓
EPLAN Pro Panel (Add-On)	+	+	✓
EPLAN Fluid (Add-On)	+	+	✓
EPLAN P&ID (Add-On)	+	+	✓
EPLAN Pro Panel Professional (Add-On)	+	+	+
EPLAN PPE (Add-On)	+	+	+

✓ Standard + Add-On / Errors and modifications excepted

# ADDED VALUE

at a  
glance

The combination of standard functions and optional extensions in EPLAN Electric P8 allows you to optimise your entire planning process and increase the quality of your automation documentation in the long term.



- Graphical and device-oriented planning
- Automatic and individual DT allocation and connection numbering
- Automatic creation of cross references between
  - Interruption points, contacts, symbols and components, PLC's
  - Single line, multi-line display and mounting layout
  - Different subsystems (E-technology, fluid power and I&C)
- Auto connecting and Smart connecting
- Macro variants, value sets and project-wide option technology
- Automated processing using scripts
- Integrated IEC, NFPA, GOST and GB symbol library
- Quick and easy navigation with "go to" and search function
- Mass editing of project data in Excel
- Undo and redo function
- Checking procedures for signalling logical planning errors
- Quick information and context-sensitive help
- Adaptable layer management for selective display of project data
- Navigators for rapid project data locating and direct processing
- Automatic addressing of PLC components (I/Os)
- Integrated part management with configuration of the part structure and SQL access
- Unicode capability for project creation and translation in any language
- Project, version and rights management
- Configurable user interface with options for creating individual work areas and adaptation of toolbars, icons and keyboard assignments
- Internal editors for creating and processing project templates, graphical forms and evaluations, symbols and macros with variants and value tables
- User interface, online help and master data available in German, English, Chinese, Danish, French, Italian, Korean, Dutch, Polish, Portuguese, Brazilian Portuguese, Russian, Swedish, Spanish, Czech and Hungarian
- And much more ...

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# EPLAN

efficient engineering

Internationality without borders

EPLAN Electric P8

[www.eplan-efficient-engineering.com](http://www.eplan-efficient-engineering.com)

Our customers work around the world – and so do we

EPLAN has seven branches in Germany and representatives in over 50 countries around the world, so is always around wherever you need advice. Over 25,000 customers have trusted us with more than 80,000 installations. Rely on a partner with consistent focus on practicality, extensive experience, individual service and an international presence. EPLAN Software & Service, part of the Friedhelm Loh Group, represents continuity and security of investment.



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