Performance Description

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Electric P8

Basic

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Introduction

Eplan offers Engineering software and service in the fields of electrical engineering, fluid power, automatization and mechatronics. The company develops one of the world's leading software solutions for engineering, plant engineering and enclosure design. Eplan is also the ideal partner for simplifying challenging engineering processes.

Standardized and individual ERP and PLM/PDM interfaces ensure consistent data along the entire value chain. Whether small or large companies, customers can thus use their expertise more efficiently. Eplan aims to keep growing with its customers and partners and furthers integration and automation in engineering. "Efficient Engineering" is our motto.

Eplan was founded in 1984 and is part of the Friedhelm Loh Group.

All from one provider: Eplan Solutions

Eplan supports the user in setting up engineering across multiple disciplines and independent of location. This means increases in efficiency when working on the Eplan project, because digital data flows seamlessly from solution to solution and is enriched accordingly in the project. Eplan Platform offers added value for collaboration in a team, especially when it comes to tasks shared between different locations.

Eplan allows bidirectional exchange with ERP and PLM / PDM systems via interfaces. Through neutral interfaces the Eplan project data can be exchanged with other software environments and further processed.

Extensions for all cases

No matter which requirements have to be fulfilled in the future or to what extent work with Eplan solutions is already taking place: Extensions in all directions can be implemented easily thanks to the Eplan concept – flexibly and individually for individual tasks.

A comprehensive overview of the current extension options is listed in the licensing overview. Should you have any further questions on this topic, please do not hesitate to ask your Eplan contact person.

Eplan Electric P8 Basic

With Eplan Electric P8, electrical designs are configured reliably, consistently and rapidly in an engineering system. The software supports diverse engineering methods: from manual creation up to standardized and template-based work. Eplan Electric P8 automatically creates detailed reports as an integral component of the project documentation. This way all required information is supplied from the engineering phase to the downstream process phases – from the consistent planning through to manufacturing, commissioning, maintenance and servicing.

Once recorded in the schematic, the project data form the basis for automated completion of the machine and plant documentation.

Collaboration apps

Eplan Data Portal

The Eplan Data Portal has direct online access to high-quality product catalogs of notable component manufacturers. Eplan Preplanning, Eplan Electric P8 and Eplan Pro Panel access this Web service equally. Simple transfer of the offered components into the Eplan documentation reduces the required configuration work and increases the quality of the machine and plant documentation. With its Data Standard based on ECLASS Advanced, Eplan Data Portal provides a systematic framework for device attributes.

Parts management – eStock

The parts management eStock can be used to provide Eplan parts data and part-specific macros, images and documents for defined users. By categorizing parts into different "Collections", parts and component data can be made available to different target groups across all locations.

Project viewer – eView

The project viewer allows structured collaboration with colleagues, customers and service providers. This allows project data to be shared, viewed and modifications to be documented via a redlining workflow, independently of the location.

Through the project viewer Eplan project data is available to all project participants along the entire value chain - from engineering to manufacturing and mounting up to service and maintenance. A Free version can be used free of charge after registration. The project data that are visualized and commented in the Project viewer are provided to the user via the data management.

Greenlinings allow the users to directly enter remarks in the documentation and redlinings allow them to initiate a change process with the engineering team. In addition to the visualization of the project documentation in 2D, a visualization of 3D panel layouts from Eplan Pro Panel is also possible.

Data management – eManage

The data management allows the central, cloud-based management of project-relevant data within the Eplan ecosystem, specifically geared to the internal and external collaboration with partners, suppliers and customers at the project level. The project data can be provided in an extended framework with the data management. With the data management the user can furthermore provide Eplan master data with the familiar access control for other users. Different search and filter functions support the user in finding and storing projects and project-specific data and data formats in an organized manner. If required, Eplan projects can be saved in the current version as well as in the project format of older versions and can be made available for defined users.

Note:

Use of merged software products

The Eplan Cloud apps eStock, eManage and eBuild (referred to as Eplan Cloud apps below) are components of module packages of the products Eplan Preplanning, Eplan Electric P8 and Eplan Pro Panel (referred to as Eplan products below). They are licensed with these as a uniform performance unit ("product seat").

The use of the Eplan products including the Eplan Cloud apps is only permitted within the framework of the provided overall functionality and through the number of product seats licensed to this purpose. The division of product seats, consisting of Eplan products and Eplan Cloud apps, between several users or end devices, which is equivalent to a separate licensing of the listed Eplan products and Eplan Cloud apps, is not permitted.

Excepted from this specification is the use of the Eplan Cloud apps mentioned if these are purchased independently of the Eplan products and are licensed separately. They may be used as individual components and independently of the product seats of the Eplan products.

Eplan functionalities

Electrical engineering

Generating electrical schematics

This functionality offers the possibility to create logical links and relationships of automation projects in the form of electrical schematics.

Multi-line

This option offers the possibility to create multi-line schematics as part of the project documentation.

Multi-line representations are used to represent the logical link of the plant elements in detail, so that individual pole positions of an item or part of a plant can be assigned precisely.

There is a synchronization between multi-line and single-line schematics. This allows the user to automatically update the respective other representation when using copy and revision processes.

Single-line

This option offers the possibility to create single-line schematics as part of the project documentation.

This simplifies the creation of plant overviews considerably. Cables, lines, terminal strips and plugs can be defined easily in advance in order to be used later in the detailed schematic. Single-line representations are often used to represent the logical combination of the plant elements simply and clearly and thus also to determine the protection values.

Using pre-defined macros, Eplan Preplanning can be used to create single-line representations that are used, among other things, for graphical pre-planning. This allows the user to create a complete overview very quickly at the start of the project planning and thus facilitate the planning of the parts to be ordered beforehand. If required, the detailed interconnection of items can also be stored in table form in the database in the single-line representation.

Assembly reports

The system includes automatic creation and, if required, online updating of graphical reports such as terminal diagrams, cable diagrams, and bills of materials.

Connected reports for project sections or report types can be grouped into blocks. The reports that belong to a report block are then always updated simultaneously.

The result of the report is displayed in a report page or output to external files, e.g. for the printing of item labels. It is possible to output the report pages into the same or into any other project.

Manufacturing data output

For the visual identification of devices and connections, directly on the plant site, it is necessary to label them.

Identifying and descriptive information about parts and connections can be prepared for labeling automatically. The data is then made available for external applications such as Excel.

Part reports

- Parts list
  The parts used in the project are listed individually.

- Summarized parts list
  The parts used in the project are listed individually. Identical parts are consolidated and listed in summary.

- Device tag list
  The device tag list outputs the devices used in the project.

Function-related reports

- Terminal diagram
  One terminal diagram for each terminal strip. Structure and wiring.

- Terminal line-up diagram
  One terminal line-up diagram for each terminal strip.

- Plug diagram
  One plug diagram for each plug. Structure and wiring.

- Cable diagram
  Cable properties

- Cable assignment diagram
  The cable assignment diagram shows single-line predefined cables in multi-line representation with pin assignment.

Overview reports

The automatic overviews provide a rapid and accurate list of the items used in the schematic. The following overviews can be generated in this context:

- Cable / line overview

- Plug overview

- Terminal-strip overview

- Potential & signal overview

2D panel layout

The 2D panel layout also facilitates the configuration of 2D mounting layouts for mounting panels and enclosures in addition to schematic creation and reporting.

For the 2D mounting layout, the user can generate item legends that can be integrated into the project in a number of different ways.

In order to support the various working methods of designers and engineers, it is also possible to perform a 2D mounting layout independent of the schematic. The part placements used in the 2D mounting layout in this context define a device, even if no corresponding function has been placed in the schematic yet.

During placement, devices used in the schematic or existing in the parts preselection can be displayed in a list structure or tree structure.

Items used in the schematic can be placed on a 2D mounting panel. In the course of the placement a check is carried out whether the positioning is taking place on the correct mounting panel. This furthermore immediately indicates which items from the schematic have yet to be placed on the mounting panel.

The data of the items in the 2D mounting layout can be listed automatically. The resulting enclosure legend can be generated as a window legend – i.e. as a freely positionable graphical object – on the same project page as that of the 2D mounting layout. It is alternatively possible to output the legend as a separate form on its own project page.

Fluid power

Eplan Electric P8 provides functions and options specifically for the configuration as well as automated documentation of circuits for fluid power systems in the pneumatics, cooling, lubrication and hydraulics sectors.

Automatic cross-references between the fluid power and electrical engineering trades simplify navigation and the editing of hybrid construction elements such as e.g. electropneumatic or electrohydraulic assemblies. All modifications are visible in the software of both trade groups.

The functionality supports the identification code for fluid power devices in accordance with common standards. Complex fluid power devices can be implemented with the help of device groups. Automatic check runs provide security when planning and help to create error-free schematics and reports.

The creation of schematics for fluid power offers the possibility to create logical links and relationships of automation projects in the form of fluid power schematics.

Eplan Fluid Hose Configurator

The Eplan Fluid Hose Configurator provides the hydraulics user with a wizard for complete specification of a hydraulic hose line. A norm-compliant type code is generated automatically in accordance with predefinable sets of rules (such as to DIN 20066) and transferred to the selected hydraulic hose line. This norm-compliant type code allows the hose line to be ordered clearly defined at nearly any supplier.

Eplan Electric P8 can be used to generate report pages as additional information for documentation, thus supporting clear communication between the purchaser and the supplier of the hose line.

Collaboration

Multi-user operation

Multi-user operation allows several users to edit a project simultaneously in multi-user operation. Please contact Eplan Support with regard to the hardware requirements for multi-user operation. We can advise you specifically according to your individual requirements.

Hardware and software requirements for Eplan

Please observe the notes in the information portal (Software and hardware requirements). These requirements are only available in English.

Licensing overview

X Standard functionality Optional (fee-based) - Not available

	Electric P8 Basic Stand-alone
International page restriction	40
Concurrent license	-
Collaboration apps	X
Eplan Data Portal	X
Parts management - eStock	X
Project viewer - eView	X
Data management - eManage	X
Automated project generation - eBuild	-
Electrical engineering	
Electrical engineering schematic generation	X
Multi-line representation	X
Single-line representation	X
Cable length determination 2D - FieldSys	-
Assembly reports	X
Manufacturing data output	X
Part reports	X
Function-related reports	X
Graphical reports	-
Harness proD extensions	X
Overview reports	X
2D panel layout	X
Configuration of PLC controllers / bus systems	-
Net-based connections	-
Comment navigator+	-

Fluid power	
Fluid power schematic generation	X
Fluid Hose Configurator	X

Collaboration	
Revision control	-
Project management	-
Change of standard	-
Multilingual translation	-
Multi-user operation	X
Multi-user management	-
Multi-user monitor	-
Project options	-
Project verification	-
Rights management	-

3D mounting layout	
3D mounting layout	-
Pro Panel STEP import	-
Pro Panel STEP export	-
Pro Panel JT import	-
Pro Panel JT export	-

Rittal interfaces and integrations	
Thermal Design Integration	-

ERP integration	
Eplan ERP Integration Suite	-

Add-on systems and add-on modules	
Eplan ERP PDM/PLM Integration Suite	-
Eplan API extensions	-
Language package (All)	-
Eplan Preplanning add-on	-
Eplan Pro Panel add-on	-
Automated project generation - eBuild	-

Errors and changes reserved.