

M4 P&ID

P&ID Software for Intelligent Piping Schematics

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M4 P&ID is a standalone system for creating intelligent piping and instrumentation diagrams (P&IDs). Customisable symbol libraries make it quick and easy to design entire process systems using intelligent lines and symbols. The Software provides P&ID symbol catalogs in support of the EN ISO and ANSI standard.

M4 P&ID provides an integrated consistency checker for design quality assurance, and provides a detailed overview of the components used, as well as their attributes. Potential mistakes or inconsistencies within the schematic are flagged up in a separate report, as well as highlighted on the diagram itself. Parts lists, line lists and from/to lists can be generated at any stage and help teams to monitor a project's progress. Because of the software's flexibility when it comes to the assignment of symbol properties, reports can easily be adapted to suit corporate or project-specific requirements.

Intelligent symbol numbering*

The numbering of P&ID symbols in M4 P&ID can be customised to meet respective company requirements, ensuring that all existing numbering systems can be realised for individual components. Intelligent numbering can also be defined only for specific components or equipment types. Multiple labelling configurations can also be managed if they are required for different projects or customers.

P&ID Consistency Checks

Users can quality check their intelligent schematics at any time during the design process. The software checks for correct pipe connections; whether all equipment connection points have been used; whether process lines have been fully labelled; and whether there are any open pipes. The resulting issue report provides a quick overview. As users click on each error, it is graphically highlighted on the P&ID, allowing designers to immediately fix any problems.

Customisable attributes

The P&ID symbols and pipework in an M4 P&ID diagram contain analysable information about the components placed in each case. Managed in the form of customisable attributes, the information that the symbols or pipelines should contain can be defined on a company-specific basis.

Working Sets

Users can collect several drawings into a single project-specific working set, allowing project teams to gain a quick project overview.

Complementary 2D Drafting Functionality

M4 P&ID provides an extensive set of 2D tools in support of P&ID creation. These tools make it quick and easy to create & edit P&ID symbols. Users can also add text, notes, or 2D geometry, and use line, geometry creation, dimensioning and cross hatching tools. Parts of a P&ID can be saved as a block for re-use in other designs.

Interfaces

M4 P&ID enables the import and export of DXF and DWG files. DGN files can also be imported. Drawings can be exported directly to PDF format using the PDF interface. The parts lists can be exported in XLS, CSV, RTF and PDF formats.

Parts Lists and Reports

Users can easily create, customise, export or print parts lists, line lists and from/to lists from their P&ID data. The lists can also be displayed as tables directly on the P&ID.

Multi-Sheet Support

M4 P&ID FX contains specialised tools for intelligently connecting equipment, piping components and instrumentation across different drawing sheets, clearly structuring complex information.

Photos and scans in drawings*

The R&I flow diagrams can also be supplemented with colour or monochrome photos or scans. This means that existing plans, photos, scans or other image documents can also be incorporated into the flow diagrams. Because they are saved inside the drawing this ensures easy access for the entire team. The individual graphics or photos can also be edited and adapted to the requirements of the individual drawing.

Video tutorials & workshops

Schroer offers an extensive tutorial package for a quick introduction to M4 P&ID. Detailed video tutorials give the user an overview of the entire range of M4 P&ID functions. Individual workshops can then be applied to expand knowledge in a targeted areas.



Test and buy

The M4 PID FX package can be tested free of charge for 14 days. For a detailed test of the M4 P&ID Premium package, simply contact us. You can find more information on downloading and purchasing the software at: cad-schroer.cm/pid



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