

Automation Studio



<u>Developer(s)</u>	Famic Technologies Inc.
<u>Stable release</u>	P6.2/E6.2
<u>Operating system</u>	Windows Vista and later
<u>Type</u>	Simulation , prototyping , systems design
<u>License</u>	Proprietary software
<u>Website</u>	automationstudio.com

Automation Studio is a circuit design, simulation and project documentation software for [fluid power](#) systems and electrical projects conceived by Famic Technologies Inc.. It is used for [CAD](#), [maintenance](#), and training purposes. Mainly used by [engineers](#), trainers, and service and maintenance personnel. Automation Studio can be applied in the design, training and troubleshooting of [hydraulics](#), [pneumatics](#), [HMI](#), and electrical control systems.^{[1][2]}

Two versions of the software exist:

- Automation Studio Professional
- Automation Studio Educational

The educational version of Automation Studio is a lighter version used by engineering and technical schools to train future engineers and technicians. The software is designed for schools that teach technical subjects such as industrial technologies, mechatronics, electromechanical technologies, electrical & electronics, automation, and maintenance. Modeling and simulation are used to illustrate theoretical aspects.



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Libraries

Automation Studio has various symbol libraries. All libraries follow standards such as ISO, IEC, JIC and NEMA.

- Hydraulics
- Pneumatics
- Electrical (IEC & NEMA standards)
- Fluid Power & Electrical Component Sizing
- Valve Spool Designer
- OPC communications server
- Bill of Materials & Report
- PLC Ladder Logic
- HMI & Control Panel
- Digital Electronics
- Sequential Function Chart (GRAFCET)
- Electrical Controls
- Multi-Fluid Simulation
- Teachware
- Manufacturer's Catalogue
- Workflow Manager

Libraries features

Automation Studio is used as a design and simulation tool in the fields of hydraulics, pneumatics, electrical and automation.

Automation Studio Hydraulics

Automation Studio Hydraulics' functions are used for hydraulic system engineering purposes. Automation Studio Hydraulics includes a specific symbol library and uses modeling techniques such the Bernoulli's law and the gradient method.

Automation Studio Hydraulics is the main aspect of Automation Studio: it is used to conceive and to test hydraulic systems while taking into account thermal parameters. It displays inside views of the elements in the schematics. The Automation Studio library includes additional elements such as commands and control devices (PID controller, [CAN bus](#), and servo-direction).

Fluid power is one of the central elements in such simulation.

Automation Studio Pneumatics

Automation Studio Pneumatics is similar to Automation Studio Hydraulics, but the simulation is done for air rather than fluids. This library, like Automation Studio Hydraulics, is used to design and test models.

Thus, the simulation elements that are used are not the same as those in the hydraulics library.

Automation Studio Electrotechnical

The electrotechnical module in Automation Studio is used for design, simulation, validation, documentation and troubleshooting of electrical diagrams. It includes multi-line and one-line representation according to the users' choice. The different aspects of the IEC and NEMA international standards are respected: components' identification, symbols, ratings, ports names, ... etc.

The electrotechnical module works simultaneously with the fluid power technologies which allows the users to design and simulate complete systems.

Versions

Automation Studio Professional

- 1996-2000: 1.0 to 3.0.5.1 (Windows 98, 2000, Me, XP, NT 4.0);
- 2003-2004: 4.0, 4.1, 5.0, 5.1, 5.2 (Windows 2000, XP, NT 4.0);
- 2005-2006: 5.3, 5.4 (Windows 2000, 2003, XP);
- 2007: 5.5 (Windows XP, Vista);
- 2008: 5.6 (Windows XP, Vista);
- 2009: 5.7 (Windows XP, Vista);
- 2011: 6.0 (Windows XP, Windows 7, Windows 8);
- 2014: 6.1 (Windows 7, Windows 8);
- 2016: 6.2 (Windows 7, Windows 8, Windows 10, Vista).^[3]

Automation Studio Educational

- 2002-2005: 4.0, 4.1, 5.0, 5.1, 5.2 (Windows 2000, XP, NT 4.0);
- 2006: 5.3 (Windows 2000, 2003, XP);
- 2008: 5.6 (Windows XP, Vista);
- 2009: 5.7 (Windows XP, Vista);
- 2014: 6.1 (Windows 7, Windows 8);
- 2016: 6.2 (Windows 7, Windows 8, Windows 10, Vista).

External links

- [Automation Studio Professional Edition](#)
- [Automation Studio Educational Edition](#)

