

The Modicon® family of industrial PLCs



Make the most of your energySM

Schneider
Electric

Modicon...

the PLC that started it all

The Modicon controller sparked a revolution in 1968 with its introduction as the first programmable logic controller (PLC). That Modicon programmable controller completely reshaped the world of automation and machine design by offering an entirely new control solution that was flexible, easy-to-use and more versatile.

Today, Schneider Electric continues that tradition of excellence and innovation with a complete range of Modicon industrial PLCs. Consisting of five product lines, the Modicon family enables you to:

- Select the exact level of control you require without sacrificing simplicity and performance.
- Streamline programming by reusing functional libraries across products.
- Reduce implementation time and cost by utilizing commercially available cabling, modular architectures and standard networking protocols.
- Quickly expand your control solution by using combinations of products or simply upgrading to other PLCs in the line.

The Modicon line of PLCs comes with over 40 years of proven experience built into every product. It is also supported by the industry's largest distribution network and the global leader in power, control and automation solutions, making it the ideal choice for simple machines to complex automation facilities and critical applications.





Protect your automation investment



Schneider Electric offers long-term protection for your automation investment by simplifying your adoption, upgrade and migration to Modicon PLCs. We do this by offering conversion kits that allow you to replace legacy products without requiring expensive rewiring or cabling and streamline connectivity to other automation products — even those from other vendors.

To further minimize your risk, dedicated service teams specialized in bridging the gap between old and new technologies are available to manage the whole process. Starting with a comprehensive analysis of your current systems, we identify ways to improve performance by incrementally updating your systems to replace outdated equipment in phases. This enables you to immediately benefit from modern equipment, quickly recover the cost of upgrading and have a positive impact on your bottom line for years to come.

Comprehensive PLC Solutions

> High-end controllers

Modicon Quantum™ PLC

The Modicon Quantum PLC is the powerhouse of the Modicon family. It's scalable, modular architecture is configurable to meet the needs of even the most critical solutions, from a single-rack system to a plant-wide architecture. It is ideally suited to industries that require continuous operation, rapid responsiveness and high availability through redundant backup, and achieves optimum cycle times, while integrating increased communication connectivity, diagnostics, memory flexibility and data storage.



> Mid-range controllers

Modicon Premium™ PLC

The Modicon Premium PLC offers a highly versatile, open and cost-effective control solution. It enables you to standardize on a single platform for multiple discrete manufacturing and process control applications, while at the same time, allowing you to take advantage of a flexible architecture that integrates multiple CPU levels, plug-and-play rack support and open communication standards. It also features multi-axis interpolated motion control, weigh scale monitoring, integrated Preventa™ safety relays and reflex functionality for fast, independent processing of critical I/O.



Modicon M340™ PAC

Extremely powerful, rugged and compact, the Modicon M340 programmable automation controller (PAC) provides cutting-edge features and high-end performance in a mid-range processor. Using commercial integrated circuit technology, the M340 utilizes modern data networking to interact with distributed I/O, drives, other PLC devices, and enterprise-type entities. It also uses the same Unity™ Pro application development software as the Quantum and Premium equipment, making it easy to quickly select, program and implement the controller to optimally manage simple-to-complex applications.





> Distributed I/O

Modicon Momentum™ PLC and Distributed I/O

With a small footprint and open architecture, Modicon Momentum PLCs provide an extremely versatile control solution for a variety of automation applications. Ideal for PC-based control, distributed I/O and traditional, standalone PLC control, the Momentum Ethernet processor offers users the option of programming with traditional ladder logic or the five complete IEC program editors standard with Concept™ software. Using Ethernet as its communications backbone, the Momentum M1E processor delivers in real-time, while its open architecture promotes interoperability, making it the first truly universal controller for distributed I/O compatible with many of the major fieldbus and control network environments.



Advantys™ STB Distributed I/O

The Advantys STB is a highly modular I/O platform, wiring solution and power management system that delivers the most effective and targeted control available today. Right from the start, you will discover the difference — configuration software that is powerful, network adaptability and system flexibility that are nimble and easy to implement, extremely rugged with high G and shock load ratings twice the IEC standard and attention to detail that makes Advantys STB the smart solution for all your distributed I/O needs.





Tailored to your needs

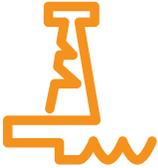
Every industry is unique in its own way, as is the Modicon family of products. Each offers something unique, such as the M340 PAC's extended temperature range (-25° C to 70° C) or the Quantum PLC's SIL3 certification. Together, they make tailoring your solutions to meet your needs easy.

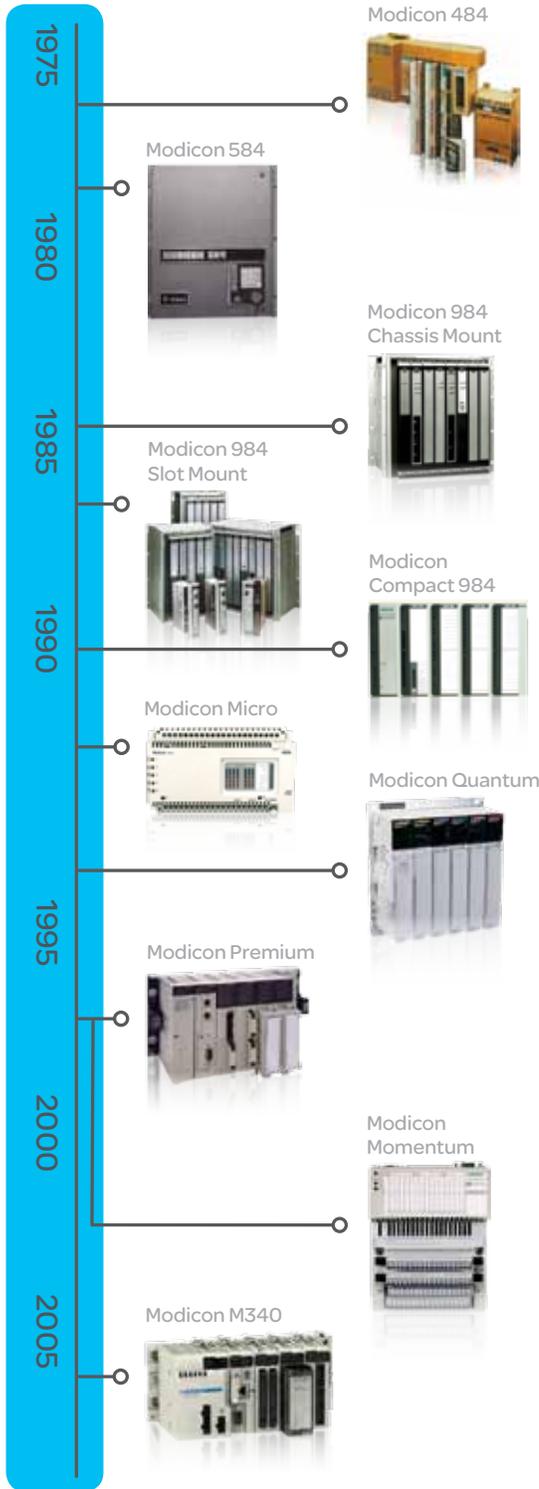
And as a global leader in power, control and automation solutions, Schneider Electric has the resources to focus on understanding your specific challenges to assist you in building solutions for your customers. Accelerating this process are global industry competency centers and regional country representatives available to work hand-in-hand with you to build innovative new machine solutions. They combine day-to-day industry experience with automation expertise to help you design and build equipment that is more efficient, more productive and more competitive around the world.

The ideal solution for multi-processor designs

The Unity Pro development software is the only programming tool you need to fully develop, test, debug and manage your applications that leverage the Modicon M340, Premium and Quantum PLCs. Its versatility, ease-of-use and built-in library of pre-tested application function blocks allow users with multi-processor applications to share ideas and information visually, so individuals and teams can benefit from their collective experience and work together more effectively. As a result, you save time and money by reducing on-site development, installation times and debugging across your application's entire lifecycle.



 Off Shore Oil & Gas	 Hoisting
 Material Handling	 Lift
 Oil & Gas	 Food & Beverage
 Automotive	 Water Wastewater
 Packaging	 Machines



Protect your investment with a proven process for upgrading your PLCs

Any interruption of production is an interruption in your income. Schneider Electric's automation experts understand this and have the proven experience necessary to develop a plan that fits your specific needs; a plan that minimizes your risk, downtime and cost, and allows you to quickly take advantage of new technologies to achieve higher levels of productivity. And as the original manufacturer of your PLC, we have in-depth knowledge of your equipment and have used that knowledge to develop software tools and quick wiring adapters that reduce the risk, time and cost of upgrading your controllers to our state-of-the-art Modicon PLCs.

Talk to someone you can trust

When we introduced the first programmable controller, we were responding to the needs of our customers for better, more effective machine control. More than 40 years later, we continue to listen and work with you to pioneer innovative new ways of delivering value, efficiency and performance.

This commitment has earned us a reputation for dependability, innovation and reliability that is the defining characteristic of Schneider Electric team members from around the world. This includes product specialists, industry experts, distributors, partners and the countless other members of the Schneider Electric family. Each is tasked with continuing our mission to help you make the most of your energy.

To learn more about the Modicon family of industrial PLCs from Schneider Electric, visit www.us.Schneider-Electric.com/PLC or contact your local Square D distributor.

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