

Cloud-Based Monitoring

Netilion Water Network Insights (NWNi) from Rockwell Automation Strategic Alliance Partner **Endress+Hauser** is designed to provide reliable, around-the-clock monitoring of flow, pressure, temperature, level, water quality and other measurements.



This software service connects all water supply systems, allowing service providers and water associations to manage multiple control and data sources through a single interface. These sources include field devices, industrial controllers, data transfer components, data recording and archiving devices, analysis and forecasting tools, and others.

NWNi provides access to all measurement data gathered in a water network and transmitted to the cloud, whether its users access the system from a control-room computer or remotely via laptop, tablet or smartphone. The web-based interface provides complete system monitoring. When limit values are exceeded, or in the event of failure, it delivers alarms to users via e-mail, SMS or push notifications.

On-Machine Drives

The **Allen-Bradley® Armor™ PowerFlex® AC variable-frequency drives** from Rockwell Automation are designed to provide quicker installation, simple commissioning and predictive maintenance. As



an on-machine solution for industrial motor control, the drives move controls and hardware out of a cabinet and onto the machine, closer to the application. This can help simplify machine designs and minimize costs and time to deploy.

Designed for harsh environments, the smart drives include an embedded EtherNet/IP™ dual-port switch, providing fast collection of real-time data. The drives also monitor component life, allowing users to predict and schedule component replacements to help avoid costly unplanned downtime.

PRODUCT SPOTLIGHT

NETWORK MAPPING SYSTEM

Strategic Alliance Partner **Panduit Corp.**'s RapidID software-enabled network mapping system for smart, scalable and efficient connectivity solutions is designed to reduce the time and cost of patch cord documentation by up to 50%.

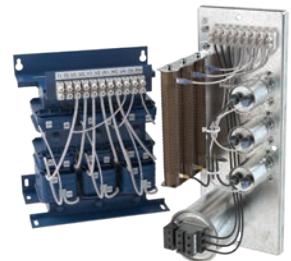


By using pre-labeled Panduit patch cords and the RapidID Bluetooth-enabled handheld scanner, network engineers can quickly, easily and more accurately place and trace cables. The system automates the labor-intensive and error-prone cable documentation process to reduce the risk of a network outage.

The system is an alternative to traditional manual approaches and is suited for building a new telecom room, locating installed cabling or replacing a network switch.

Electronically Commutated Motor Filter

Technology Partner **MTE Corp.** introduces its Matrix Air EC Motor Filter designed to mitigate harmonics produced by electronically commutated motors (ECMs). The filter suits HVAC-R and data center cooling applications and other ECM installations such as conveyance systems and variable refrigeration flow equipment.

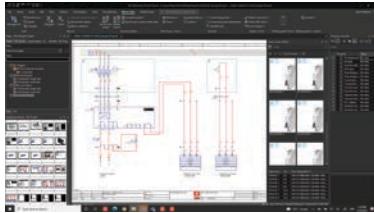


ECMs combine the benefits of DC electric motors with integrated drives, but because they emulate VFDs, they can produce damaging harmonics that degrade and “pollute” lineside power quality. This can cause nuisance tripping, equipment overheating and problems with electrical utilities.

The filter resolves these harmonic issues to provide greater stability across fan speed ranges, allowing ECMs to operate at full speed and higher efficiency.

Engineering Design Platform

Rockwell Automation Technology Partner **EPLAN Software and Services LLC** introduces the Eplan Platform 2023 designed to increase time savings and performance. The latest features help streamline and accelerate project planning with new cloud-based device management and multistandard support for schematic macros.



Users can get results quickly, especially when working on international projects, with the integrated Eplan eStock, a simplified device data-management system for maintaining and accessing data via the cloud. This makes collaboration even easier and reduces coordination times and media disruptions.

The new 3D graphics core, an optimized cable editor and the new Insert Center also improve performance and transparency for engineering.

PRODUCT SPOTLIGHT

MOUNTING SYSTEM PLATFORM

The **CrossBoard® system** from Rockwell Automation is designed to provide flexibility in motor control and protection devices, and keeps panels clean, organized and compact. The out-of-the-box system comes as a complete base unit — a bus structure with IP20 touch-safe plastic housing. Components simply snap onto the CrossBoard without tools, meaning the connection is automatic.



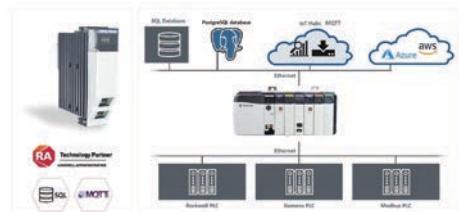
Components can be easily removed and snapped back onto another section of the CrossBoard. For safety reasons, the lock mechanism must be released with a screwdriver to prevent accidental removal of any components. The fast, easy and safe exchange of modules reduces time and saves cost when adding extensions and updates.

Module Supports PostgreSQL Database Connectivity

Rockwell Automation Technology Partner **Softing Inc.** has extended its tManager to deliver streamlined connectivity between Rockwell Automation Logix controllers and PostgreSQL databases. This allows easy, secure and robust production monitoring, recipe downloading, high-speed sorting and industrial analytics at scale.

tManager is a ControlLogix™- or CompactLogix™- compatible module that inserts into the chassis and supports bidirectional data movement between the controller and databases or cloud, with no server, coding or protocol translation required.

PostgreSQL is one of many database types used by IT departments at industrial facilities to manage large quantities of production data.



Updated Inclinometers

Technology Partner **POSITAL-FRABA Inc.** has updated its TILTIX inclinometers with new three-axis MEMS accelerometers, enhanced firmware and a new housing concept. These changes allow the company to streamline manufacturing processes and reduce delivery times while maintaining full environmental protection.

The new versions are compatible with older models, with identical mounting footprint and support for CANopen® and analog communications interfaces, while offering improved accuracy and better signal-to-noise ratios.

The inclinometers are used in motion control and safety assurance systems to measure a device's orientation with respect to the earth's gravitational field. An enhanced programming function lets users to set the measurement range of each device through simple configuration updates.



PRODUCT SPOTLIGHT

MICRO CONTROLLERS AND DESIGN SOFTWARE

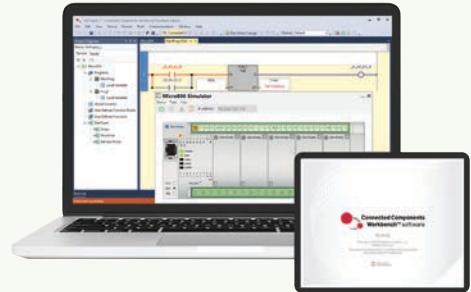
Machine builders can design and program stand-alone machines more efficiently with the new **Allen-Bradley® Micro850® and Micro870™ 2080-Lx0E controllers** using the latest **Connected Components Workbench™ software** release from Rockwell Automation.

The controllers are designed to ease project implementation with the new DNP3 protocol, a set of open standard communication protocols used in SCADA and remote monitoring systems for precise data reporting. The controllers also have expanded DF1 support, two-way simultaneous and two-way alternate communications, to help improve CIP Serial communications through full- and half-duplex and radio modem modes.

These connectivity capabilities address more application requirements, specifically in the water wastewater industry. The extended protocol support is designed to minimize conversion risk for MicroLogix™ to Micro800™ control system modernization. Users can boost productivity with the improved controller execution and I/O response performance, which speed up the design process for faster project development.

New capabilities in Connected Components Workbench software v. 20.01 help advance design efficiency. The software is designed to simplify development of stand-alone machines. Users can save development time through faster data transfer rates with upload and download performance improvement by 23% and 40%, respectively.

The software's expanded DNP3 and DF1™ support, including half-duplex and radio modem modes, helps ease configuration and help improve system security through a new password set/verify and user project encryption/decryption in the plug-in memory module.



ADVERTISER INDEX

Advanced Micro Controls Inc. (AMCI)	3, 35
Control Station	31
Endress+Hauser	19
Hammond Power Solutions	39
Hardy Process Solutions	35
Rockwell Automation Allen-Bradley Smart Devices	8
Rockwell Automation Packaging Case Study	43
Rockwell Automation Micro Control System	21
Softing Inc.	44
Spectrum Controls Inc.	2