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## **Emerson to showcase Floor to Cloud™ factory automation solutions at Hannover Messe 2024 (Hall 11, Booth C20)**

Global technology, software and engineering leader, Emerson will present the future of automation through its Floor to Cloud™ approach and innovative automation solutions at Hannover Messe in Hannover, Germany on April 22-26, 2024. Emerson will demonstrate how real-time visibility and control can drive sustainability, enhance overall equipment effectiveness (OEE) and empower teams using data-informed decision-making.

This is the first year Emerson's booth will be housed in hall 11 at booth C20. Hall 11 is the Automation, Motion & Drives area, bringing together Emerson solutions all in one place. Attendees are invited to experience the impact of Floor to Cloud™ technology through immersive demonstrations. A unique PACSystems™ display will monitor the energy use of the Emerson and nearby booths to highlight how industrial edge control systems, software and analytics can maximize equipment and resources to continuously optimize operations. Attendees will learn how to create a "machine signature" and how this process extends equipment lifecycle. Visitors can also create a preliminary project plan using Emerson Floor to Cloud™ solutions to visualize anticipated decarbonization outcomes, cost-savings and timelines. Experts from the Test and Measurement Business will also be on-hand at the booth.

Emerson experts will be on-site with solutions from Afag™ ASCO™, AVENTICS™, Branson™, CoreTigo, Movicon™, National Instruments, PACEdge and PACSystems™ brands. In addition to product demos, the booth will have an innovation station where interesting topics will be presented and explained during the show. The interactive hub will feature scheduled showings that visitors can experience for themselves.

### **Presentation and event highlights:**

Emerson will also host a VIP press event at the booth. During the invite-only event, attendees will hear from Emerson thought leaders and get an exclusive look at Emerson innovations in a relaxed atmosphere. Further details on the event will be announced closer to the show opening.

## Product highlights:

### AVENTICS Series Advanced Electronic System (AES) With Integrated OPC UA



The award-winning [AVENTICS Series Advanced Valve \(AV\) system with Advanced Electronic System \(AES\)](#) is the first pneumatic valve system with an integrated Open Platform Communications Unified Architecture (OPC UA). The AES helps interoperability challenges and accesses data more easily, while the digital twin integration improves productivity efficiency and reduces costs. In 2022, the AVENTICS Series AV system with Advanced AES won an Endeavor IDEA! Award, earned silver in the LEAP Awards and was named a finalist for the NED Innovation Awards.

For more information, visit: <https://www.emerson.com/en-us/catalog/automation-solutions/aventics-aes>.

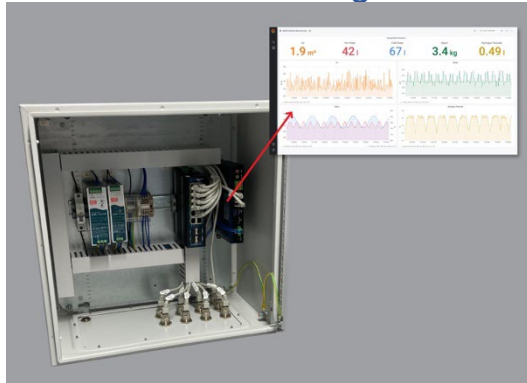
### AVENTICS Series AF2 Flow Sensor



[AVENTICS Series AF2 Flow Sensors](#) have helped plants around the world successfully reduce compressed air consumption and improve energy efficiency. By monitoring air consumption in pneumatic systems, AF2 sensors enable rapid intervention if leaks occur, helping optimize energy consumption, reach net-zero targets, prevent machine downtime and reduce costs. Emerson now offers a high flow model of this advanced sensor that propels compressed air monitoring beyond individual machines to benefit larger air lines and systems. This expanded capability allows users to easily optimize energy consumption across an entire packaging facility and improve overall plant sustainability.

For more information, visit: <https://www.emerson.com/en-us/catalog/aventics-af2>.

## Multimedia Monitoring Solution



The **multimedia monitoring solutions**, including CoreTigo wireless communication, analyze water, compressed air, gases, electricity, steam (WAGES) and other utilities. The Edge Analytics Dashboard measures efficiency, optimizes productivity and avoids or reduces downtime. Emerson experts will demonstrate the multimedia monitoring cabinet solution and the insights it offers, which will support meeting sustainability goals.

For more information, visit:

[www.Emerson.com/Sustainable-Automation](http://www.Emerson.com/Sustainable-Automation).

## Movicon.NExT HMI/SCADA



**Movicon.NExT™ HMI/SCADA** is a highly modular, highly scalable platform that goes beyond SCADA to solve automation problems for both CPGs and original equipment manufacturers (OEMs), from the single machine level to a complete plantwide IIoT project implementation. Among Movicon.NExT modules, **Movicon Pro.Lean™** provides performance data and analytics for evaluations of OEE and **Movicon Pro.Energy™** measures and tracks consumption, while the advanced **Movicon NExT.AR** solves operational problems through visualization tools that allow personnel to evaluate previously unreachable equipment. For maximum flexibility, Emerson also provides **Movicon WebHMI**, an HTML5-based visualization tool that can be used as a **stand-alone HMI** product running on Windows or Linux operator panels, or as a **Web Client** for Movicon.NExT SCADA applications, as well as **Connex™**, an industrial protocol gateway.

For more information, visit <https://www.emerson.com/movicon>.

## PACSystems Panel



Industrial edge software and solutions help analyze and solve problems where they occur — at the machine edge. [PACSystems Edge Solutions](#) is the most advanced portfolio of edge computing and control systems and includes edge hardware and software that help significantly simplify problem-solving at the machine level and allow easy, cost-effective analytics and communication at the edge. Included in the panel is the [PACSystems RSTi-EP CPE200](#) compact controller family, which delivers

large PLC capability in a compact, rugged design. It provides security-by-design, open programming and open communications built in, significantly reducing cost and complexity.

For more information, visit: [www.emerson.com/PACSystems-edge](http://www.emerson.com/PACSystems-edge) and [www.emerson.com/PACSystems-Compact](http://www.emerson.com/PACSystems-Compact).

## AVENTICS Series SPRA Electric Rod-Style Linear Actuator

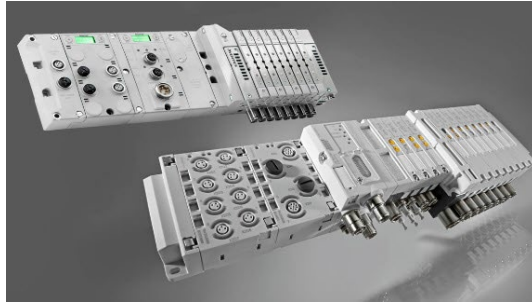


[AVENTICS Series SPRA](#) electric rod-style linear actuator is an efficient, high-performance actuator that offers improved load capacity, accuracy and reliability. In addition to outstanding precision and repeatability, the Series SPRA is also extremely versatile and flexible, with a choice of three different screw technologies that allow implementation in a wide variety of (demanding) applications. Compliance with the ISO-15552 standard, easy-to-use online sizing and selection tools and a wide range of mounting accessories ensure simple selection of the appropriate linear

motion solution for the application.

For more information, visit: <https://www.emerson.com/en-us/catalog/automation-solutions/aventics-spra>.

## AVENTICS AV Valve Systems



**AVENTICS Advanced Valve Systems** form a reliable basis for both compact handling systems and complex automation solutions. Especially in the area of machine safety, the AV family offers intelligent solutions that significantly reduce effort when creating a safe design. The valves of the AV family — AV03 and AV05 — have set standards with their diagonal spool in both sizes. They are characterized by an excellent volume flow ratio and a record-breaking

energy balance. With the serial Advanced Electronic System (AES) interface, the AV valve system communicates effortlessly with modern controllers via all common fieldbus systems. The modular electronics form the basis for high networking, flawless data transmission and integration into Internet-of-Things concepts.

For more information, visit: <https://www.emerson.com/en-us/automation/fluid-control-pneumatics/pneumatic-valves-valve-systems>.

## Edge Devices and Software



Emerson **edge devices** combine the best deterministic controllers on the market with secure, nondeterministic controllers for analytics and machine learning algorithms to proactively optimize business outcomes. These rugged devices are designed for remote industrial areas and equipped with our vendor-agnostic PACEdge software to safely run nondeterministic applications. This reduces latency and meets all application performance requirements.

For more information, visit: <https://www.emerson.com/en-us/automation/control-and-safety-systems/programmable-automation-control-systems/industrial-edge-software-solutions>.

## AVENTICS G3 Electronic Fieldbus Platform



In today's highly automated machines, the [AVENTICS valve system of the Series G3 electronic fieldbus platform](#) replaces conventional, hard-wired solutions. It integrates communication interfaces with pneumatic valve systems that have input/output (I/O) capabilities. This next-generation electronic platform provides easy access to connections. It is easy to assemble, install, commission and maintain. The functionality of the G3 enables programmable logic

controllers to turn valves on and off more efficiently and transmit I/O data from sensors, indicator lights, relays, individual valves or other I/O devices on a channel basis over various industrial networks. The G3 has an easy-to-read graphic display, which can be used for configuration, commissioning and diagnostics. It offers application, performance and serviceability improvements for Original Equipment Manufacturers (OEMs) and end users alike.

For more information, visit: <https://www.emerson.com/en-us/catalog/aventics-g3>.

## Compressed Air Manager



The [Compressed Air Manager](#) provides visualization and benchmarking for compressed air and gas consumption for a machine, production line or across multiple sites. A pre-designed Edge enabled cabinet solution powers the monitoring and serves as a foundation to connect and scale across multiple machines and lines via the AVENTICS Series AF2. The Compressed Air Monitoring App, which comes pre-installed on the Edge Device is easily configurable and continuously monitors and analyzes data coming from the sensors. The Compressed Air Manager transforms available data via an embedded dashboard with KPIs where operators can easily visualize consumption trends, costs, benchmarks and CO<sub>2</sub> impact. This data empowers users with greater insights to help reduce energy costs, improve

sustainability and streamline maintenance.

For more information, visit: <https://www.emerson.com/en-us/catalog/automation-solutions/emerson-compressed-air-manager>.



## Branson GSX-E1 Ultrasonic Welder



The [Branson GSX-E1 ultrasonic welder](#), and the advanced automation systems it enables, helps manufacturers improve efficiency and reach sustainability goals. Controls automatically monitor critical weld parameters in real time, delivering actionable performance and diagnostic data to help determine OEE (overall equipment effectiveness), enable traceability and optimize maintenance. The welder's market-leading encryption technology ensures data integrity and security. Compared to joining techniques like heat sealing, adhesives or mechanical fasteners, ultrasonic welders like the Branson GSX-E1 use less electricity, require no consumable materials and yield less waste, cutting assembly-line carbon footprints.

For more information, visit: <https://www.emerson.com/en-us/catalog/branson-gsx-e1>.

## Wireless Automation Solutions



Optimize every stage of the manufacturing process with real-time control, monitoring and data analysis provided by next-generation wireless automation solutions from Emerson and [CoreTigo](#). These wireless automation solutions connect devices and unlock trapped data. The combination of expertise from Emerson and industrial wireless technology from CoreTigo results in a fully connected ecosystem that can reduce inefficiencies and

help customers get to market faster. Wireless automation systems feature IO-Link Wireless, a deterministic, highly reliable and scalable universal wireless communication protocol with low latency (5 milliseconds) and low synchronization rates (tens of microseconds).

For more information, visit: <https://www.coretigo.com/products/>.