Kicker:

New ways of thinking are transforming industrial automation

Headline:

***Brilliantly simple – simply brilliant***

Teaser:

**Increasingly complex applications, rising cost pressure, more and more lack of skilled workers and the growing importance of sustainability and modularity: Anyone offering solutions for industrial automation must be able to provide convincing answers to these questions in the future. Murrelektronik already has them: the consistently decentralized Vario-X system.**

Text:

Why make things complicated and expensive when it can be done much easier and faster? This is the question that decision-makers are increasingly asking themselves when planning new automation concepts or retrofitting existing ones. And instead of laborious, time-consuming and error-prone point-to-point wiring in the control cabinet, they are turning to the future of automation: **decentralized solutions.**

**Better short ways than long cables**

Into the field, decentralize, modularize, combine technologies, act more energy efficiently, reduce and simplify complexity: With its unique **Vario-X** system, **Murrelektronik** has developed a **holistic overall solution** for this transition in industrial automation – a solution that **seamlessly integrates** all peripheral elements from the sensor to the cloud, **regardless of the manufacturer.**

**Vario-X** is a consistently flexible and scalable automation platform with maximum openness and performance on all levels and at all interfaces. And this is not a coincidence: The company is the **forerunner for decentralized automation concepts** that bring **signals, data and power close to the process, eliminating the need for control cabinets.**

This is where extensive know-how and **decades of experience in decentralized installation technology** meet the openness and technological expertise to radically rethink the control level. The result: With **Vario-X** and **ready-made software blocks,** **Murrelektronik** makes industrial automation as **simple, seamless and cost-effective** as possible – and this **compatible with all major industrial protocols.**

Thanks to the **modular design,** components can be added or replaced easily and without long downtime. And the **digital twin** makes it possible to virtually test and optimize the machine or system before commissioning.

**Vario-X** provides customers with a system that is open to future challenges or expansions, and **already offers 30% less effort for electrical installation.** This is because all components are connected directly in the field to decentralized I/O modules – as easily, quickly and safely as plugging a plug into a socket, thanks to the **plug & play principle with pre-assembled connection and junction cables** based on internationally recognized standards.

At **SPS 2024** in Nuremberg, **Murrelektronik** and its partners will be demonstrating how easy it is to implement typical automation tasks with the **Vario-X** system, showing several real-life applications. In addition to decentralization, the company will also address other current upheavals in the world of industrial automation.

This year’s motto is therefore: **Shaping Automation**

**Electric actuators are increasingly used to replace pneumatics**

**Murrelektronik** has long been convinced that the future of automation is not only **without cabinets,** but also **without compressed air** – and that is why the **Vario-X** system is not only **consistently decentralized,** but also **purely electrical.**

At **SPS 2024,** the company will use typical applications from the **automotive, packaging, logistics and machine tool sectors** to demonstrate how easy, cost-effective and sustainable it is to implement all-electric with **Vario-X.**

The demonstration systems vividly illustrate the major **benefits** to system builders of **using electric rather than pneumatic drives:** All parameters can be programmed to suit the application. Acceleration, braking cycles, the number and specific behaviour during intermediate stops – **everything can be flexibly adapted to the requirements.** And thanks to **Murrelektronik's Solution App,** it's quick and easy. This app also makes commissioning a breeze.

A customer example: While it takes several minutes to teach and adjust pneumatic clamps, commissioning of electric clamps with the **Murrelektronik Solution App** takes less than 30 seconds.

In addition, electric actuators constantly provide a wealth of **data** that can be used to detect deviations from standard values at an early stage. This makes it possible to avoid expensive failures through **predictive maintenance.**

It is not only in terms of **flexibility** and **control** that **electric drives** are a step ahead, but also in terms of **efficiency:** after all, it is much more efficient to convert electricity directly into motion. And if I don't need compressed air, I don't need hoses or cylinders. **And what's not there, doesn’t have to be maintained or repaired.**

And let's not forget the positive impact on the health of the workers: **no more noise in the factory, no more oily mist in the air** – the all-electric factory scores big here too.

This has been proven by a **study certified by TÜV Nord,** in which the Global Production Management Center (GPMC) in Aachen, Germany, compared the **environmental footprints of pneumatic and electric clamping systems.** The result: in 14 of the 17 categories examined, the electric clamping fixtures provided significant savings. Overall, switching to this pioneering technology can **reduce CO2 emissions by around 60 per cent.**

These advantages, combined with the many other benefits of the consistently decentralized **Vario-X** system: brilliantly simple – simply brilliant.

**Vision systems are more and more replacing simple sensors**

As applications become more complex, new approaches to system design are required.

One example: In the past, many simple sensors were used to evaluate individual stages of automated production or transport systems. Today, for example, **intralogistics** often uses a few advanced **vision systems** that can do much more – but also pose significantly more demanding tasks in terms of programming and installation.

However, the **plug & play installation system** and the **flexible and modular software library** of **Vario-X** make even these tasks as easy as possible – as demonstrated by the **intralogistics** demonstration system at the **Murrelektronik** booth.

Ultimately, the planners, plant engineers and technicians who integrate complex **vision systems** into their plants using **Vario-X** should also say after implementation: brilliantly simple – simply brilliant.

**Many exciting topics, one central meeting point: hall 9, booth 325**

Does this all sound very **exciting and forward-thinking?** You will see and experience that it is.

We cordially invite you to come and see for yourself. Talk to our experts and learn more about **Vario-X** and our other innovative ideas for **making industrial automation as simple, seamless and cost-effective as possible.**

**Mark Böttger** looks forward to receiving your email or phone call. He will be happy to arrange **exclusive appointments** with the experts of your choice.

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We look forward to seeing you and talking to you in Nuremberg!

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| **Brilliantly simple – simply brilliant:** With its unique **Vario-X** system, **Murrelektronik** has developed a comprehensive solution to make **industrial automation as simple, seamless and cost-effective as possible.**  At **SPS 2024** in Nuremberg, Germany, the company will be demonstrating the benefits of this concept in practice using several demonstration systems under the motto **'Shaping Automation'.** |  |

**About Murrelektronik:**

Making industrial automation as simple, seamless and cost-efficient as possible with smart solutions: Murrelektronik is the forerunner in decentralized electrical automation technology and has become, based on this DNA, the leading company in this field. Murrelektronik's solutions bring signals, data and power close to the process, eliminating the need for control cabinets. For almost 50 years, more and more customers worldwide from all manufacturing industries have placed their trust in this special expertise. Headquartered in Oppenweiler, Germany, the successful family-owned company has an extensive network of over 3,200 experts in more than 50 countries. With several global production and logistics locations, Murrelektronik is close to its customers to solve their diverse challenges quickly and smartly. The company has continued to expand its portfolio and covers a wide range – from connectors to I/O systems, power supplies and network technology up to the fast and easy installable, modular complete solution for cabinet-free automation, called Vario-X. As part of the plug and play mindset, Murrelektronik also offers holistic digital services supporting installation, commissioning and maintenance. Learn more here: [www.murrelektronik.com](http://www.murrelektronik.com)