zenon
by COPA-DATA

Smart Automotive Factories with zenon

zenon enables industrial automation in the production areas of the automotive industry and ensures more transparent processes with lower risk.

How you can use zenon to equip your automotive factories with smart features for the future

zenon enables you to efficiently and clearly bundle the massive quantities of data that are sent to all production stations and control centers. This helps you make the production process more transparent.

With the help of big data and the IoT, the digitalization of the automotive industry is causing companies to set aside old thought patterns and implement new technologies. There seems to be endless options for optimizing systems and work processes. Automated and extensively networked machines can detect, process and archive data in fractions of a second. Those companies that identify areas of potential at an early stage achieve a competitive advantage. Production has become inconceivable without (at least, partially) automated processes. A high level of system availability, reliable productivity and maximum data security are the most important requirements for software solutions that will automate processes over the long term. zenon promises exactly this: mobile automation that can be easily integrated with existing systems and third-party solutions to optimize the process.

MINIMIZING THE PROBABILITY OF ERROR

You can use zenon operator prompts to ensure improved operating safety. The operator is guided through processes with critical and sensitive work steps that have far-reaching consequences, or when dealing with tasks that are rarely performed. This makes manual operator actions more reliable and minimizes the risks associated with these actions. Quality and key performance indicators are improved and employee stress is reduced.

MAKE CHANGES DIRECTLY IN THE WORKFLOW

When controlling the workflow using zenon, the logic functions independently from the control system or PLC. The processing logic of the workflow is defined using a graphical interface in zenon. This lets the user make changes without the risk of PLC downtime. In keeping with the motto "setting parameters instead of programming", staff without programming knowledge can make appropriate changes. There is no need to intervene in the control system. This substantially increases flexibility and system availability.

SAVING MONEY AND CONSERVING RESOURCES IN NETWORKING

Uniform automation of several systems or production areas always poses a significant challenge. Even brownfield plants that have been operating for years using installed and preexisting components can be easily converted. This challenge can be tackled affordably thanks to zenon's high level of connectivity. zenon has more than 300 integrated drivers. This means that there's no need to buy any new equipment or create additional gateways. In this sense, the zenon Software Platform makes your production processes completely independent.

IMPROVED CLARITY THANKS TO UNIFORM DATA

Individual parts of a production chain often operate separately in terms of data. Each section collects its own datasets. With zenon, you can generate simple, uniform data analysis across all production areas. These areas can then be perfectly aligned with each other. The zenon Software Platform offers more than clarity. It also creates a consistent database for everyone and every system involved. This enables users to optimize cycle times.

SUMMARIZING DATA QUICKLY AND CLEARLY

zenon reliably reads in data from a wide variety of sources, preprocesses this data and converts it into information. This helps the user make the right decisions to ensure optimum production. The zenon production cockpit clearly depicts many small chunks of information that would otherwise be difficult to summarize. This information includes KPIs, energy data, and alarms.

MANAGING MACHINE DATA

zenon machine data management has finally ended the era when information was only available on paper. The software platform generates faster centralized access to all relevant information. Values are archived and can be viewed at any time using the search function.

DIGITAL INFORMATION TRANSFER

The daily shift log in zenon noticeably simplifies production: information is digitally forwarded automatically among the various work shifts. This notifies the employees working the next shift about actions that have been performed, such as error corrections and maintenance work. Comprehensive integration of zenon with any number of machines and systems along the production chain eliminates the laborious process of recording information on paper. The combination of automatically detected data with manual entries provides operators and managers with more information. This can serve as the basis for future optimization of the system.

OUR SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY:

ALARM MANAGEMENT

AUTOMATED ENGINEERING

ENERGY DATA MANAGEMENT

SMART AUTOMOTIVE FACTORY

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