



**zenon**  
by COPA-DATA



## Next Level HMIs with zenon

*With the zenon software platform, you can take your HMIs to the next level. Secure and easy operation for your customers, minimum engineering effort, and maximum connectivity for you.*



## Control equipment and production lines ergonomically

*zenon offers a state-of-the-art HMI to visualize and control production processes in the food and beverage industry. Not only does zenon provide the ideal platform for new equipment, it also allows operators to upgrade existing equipment and benefit from zenon's improved ease of use and connectivity.*

From stand-alone equipment to integrated production lines With zenon you are free to choose the PLC. Thanks to more than 300 native communication protocols, zenon can communicate with controllers from all common manufacturers. This means that you can replace hardware flexibly and always use the same visualization – saving you valuable configuration time.

zenon can also translate equipment information into standardized “languages” such as OMAC PackML or WS Pack. The vertical integration through various gateway modules, e.g. OPC UA, enables efficient sharing of real-time and historical data with other systems. Audit trail logs and alarms can also be shared, for example, with an existing manufacturing execution system (MES).

In addition, multiple zenon installations can be connected with just a few mouse clicks. With zenon, you can visualize and control the entire line from a central control room. This gives you full flexibility for system architecture: centralized or decentralized, redundancy, virtualization – you decide.

### INTUITIVE HMI FOR COMPLEX EQUIPMENT

zenon supports users with a modern, ergonomic and intuitive user interface. Languages, units of measure, and colors can be easily customized. The ideal application interface can be tailored to each individual user.

Comprehensive recording, processing, and visualization of process data supports users in making the right decisions



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**OMAC**  
The Organization for Machine  
Automation and Control

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and helps to improve equipment efficiency. Flexibly configurable user management ensures that only authorized personnel can carry out operator actions. Because the HMI supports step-by-step instructions, changeover times are reduced and errors avoided. Batch processes (based on ISA-88) can be easily created, modified, and started without programming. The integrated reporting gives you reports on completed batches at the click of a button.

Visualization can run natively as a Windows application or be displayed in the browser of any end device using HTML5.

## EFFICIENT ENGINEERING

You configure all the components of your HMI in an intuitive development environment – zenon Engineering Studio. zenon is well prepared for the requirements of equipment manufacturers. Important components such as audit trail, alarm handling, recipe management, archiving or user administration are available out of the box. Wizards enable easy and secure automation of recurring tasks. Use automated engineering to create custom HMIs for tailored configuration of equipment in seconds. Use smart objects to encapsulate and reuse multiple components, for example, to visualize machine

parts. The integrated soft PLC zenon Logic enables you to implement complex calculations and algorithms directly. Thanks to zenon's downward compatibility, you will also be able to run the HMI application years after it was introduced, with newer software versions or on updated hardware.

## SECURITY ACROSS THE BOARD

zenon ensures consistently secure production operations and manages security risks during development through Certified Security by Design in accordance with IEC 62443. Secure password protection, multi-factor authentication, protection against unauthorized access, and encrypted data transmission are integrated. Seamless redundancy in zenon guarantees maximum data consistency and there are no gaps, even when switching to a standby server. Through annual release cycles, we develop and upgrade features and modules in zenon to ensure that your applications are always state of the art.

## OUR SOLUTIONS FOR THE FOOD & BEVERAGE INDUSTRY:



PROCESS  
AUTOMATION



ENERGY DATA  
MANAGEMENT



LINE  
MANAGEMENT



QUALITY  
MANAGEMENT



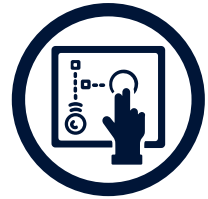
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BUILDING  
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PLANT  
INFORMATION  
MANAGEMENT



HMI

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