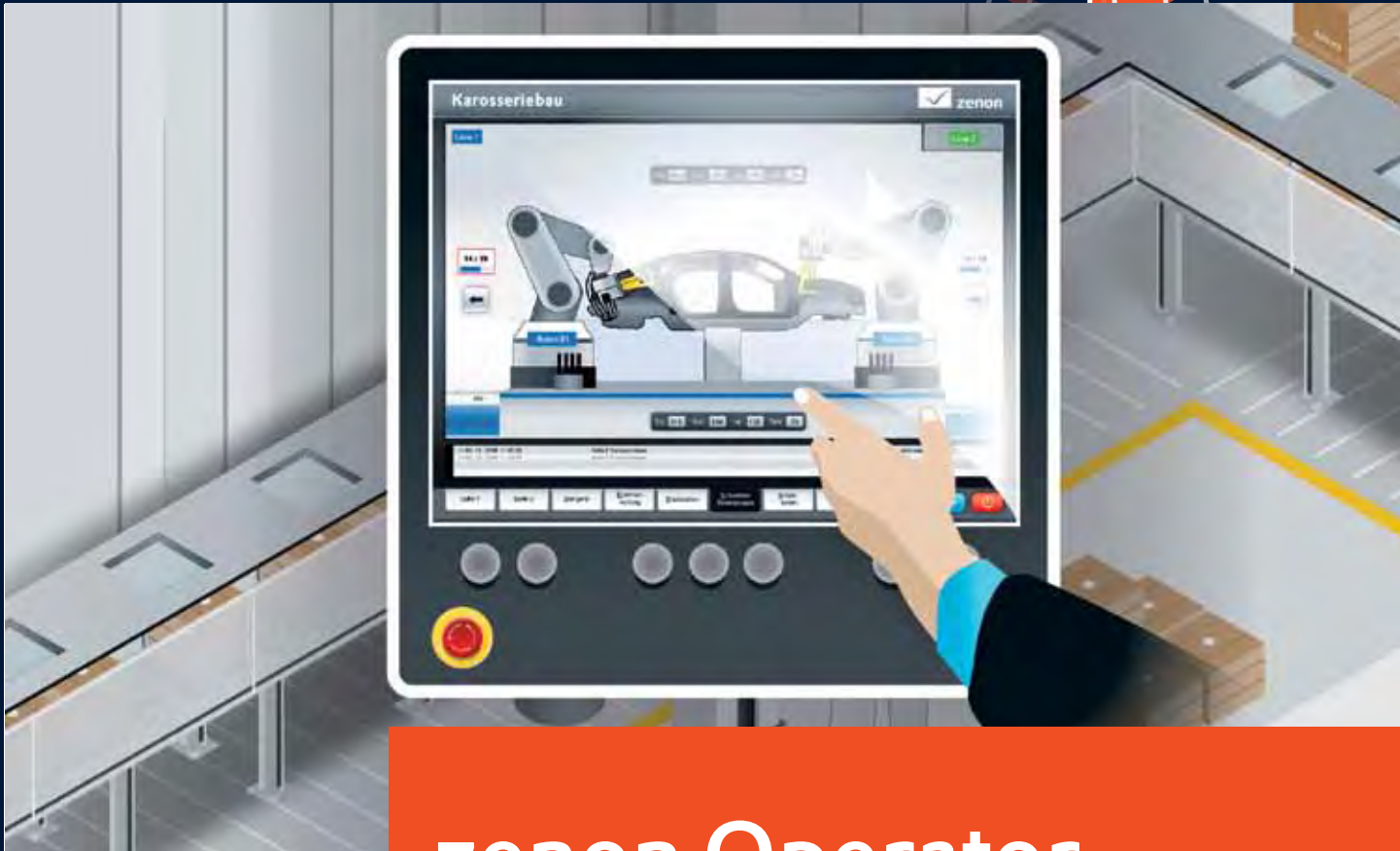




zenon Operator

EMBEDDED HMI SYSTEM



zenon Operator

Make the best out of your plant:
Easy and intuitive handling,
secure operation and ergonomic control



COPADATA

zenon

EVERYTHING UNDER CONTROL FROM SENSOR TO ERP

What do you need for optimal automation? An overview across complex equipment? Maybe also secure, controlled access to different hardware? Outstanding security and standard documentation of all operating actions? Or is your requirement the complex reporting of data from different sources? Whichever way you design your automation, zenon is on your side as a proven software for automation: ergonomic, easy to manage, platform independent and is the one solution with a size for all.



zenon Analyzer

Dynamic Production Reporting

Platform-independent Dynamic Production Reporting tool, which processes and presents data from the process to the ERP in real time.



zenon Supervisor

Independent SCADA System

Full visualization and control of complex equipment with a connection to SAP ERP and Microsoft Dynamics.



zenon Operator

Embedded HMI System

Specialized simple and ergonomic machine and equipment control.



zenon Logic

Integrated PLC System

zenon integrated PLC system with IEC 61131-3 programming environment.

However you decide to implement zenon and whichever variants you combine, your projects and data are preserved, even after switching from one product to the other, and are easily scalable. For example, you can upgrade a license at any time from zenon Operator to zenon Supervisor. After entering the license number, the new function range is immediately accessible - adaptations to your projects are not necessary. You can read more about zenon Operator in this brochure. You can find out more about other members of the zenon Product Family by contacting your zenon advisor or online at www.copadata.com.

“ Reduce your engineering times by up to 80%. ”

zenon Operator

IMPROVED PERFORMANCE

Get the most from your equipment with the zenon Operator. Support your teams with clear and easy operation and enjoy a marked reduction in the consumption of resources. Integrate new machines easily into existing systems thanks to its open platform. zenon Operator helps you to effectively increase your productivity. See for yourself...

As innovative HMI software, zenon Operator offers complete Multitouch support for simple and reliable handling. It's just as easy to switch between languages, units and color layout during live operation. With zenon Operator you are not only able to maintain your equipment remotely with ease and securely, you can also implement zenon reload technology to make changes to the project engineering without having to stop the plant during live operation.

THE FUTURE IS ERGONOMICS

Improved automation means, above all, ergonomic automation. Thus, you can optimize the resources you use and make your automation fit for future challenges. zenon users report an 80% drop in engineering effort plus start-up times which take two weeks less than expected.

ADVANTAGES FOR THE USER:

- ▶ Optimum usability including Multitouch gestures
- ▶ Individually adaptable in the Runtime (languages, units, color palettes, and much more)
- ▶ Individually adjustable filters

ADVANTAGES FOR THE ENGINEER:

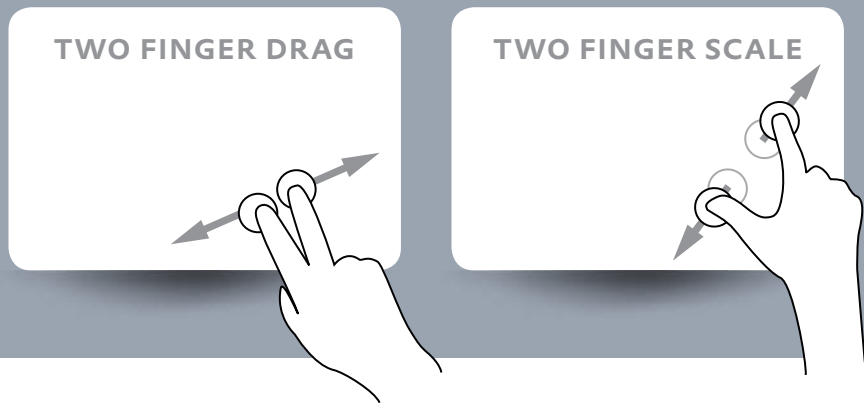
- ▶ Simple integration thanks to more than 300 integrated communication protocols
- ▶ Set parameters instead of programming
- ▶ Reusability of objects, symbols and templates
- ▶ Remote maintenance and hot reload

Ergonomics and usability

ADAPT PERFECTLY, OPERATE SECURELY



Future-oriented automation allows you and your users the freedom to choose your own path. The easier and more intuitively you set up the operation, the more reliable and productive your automation will be. zenon orientates itself to the requirements of modern ergonomics and usability in engineering as well as in the Runtime. Our ongoing cooperation with customers and usability experts allows for the development of innovative concepts, enabling optimal support for you. For example, touch operation with Multitouch gestures, switchable color palettes, units and languages, edit recipes in the process screen and much more.



MULTITOUCH FOR CLEVER OPERATION

Multitouch gestures allow for secure and rapid handling of HMIs. They're familiar from mobile devices: intuitive zooming or panning. A modern, intuitive interface creates a more interesting work routine and improves concentration. Users quickly learn how to handle machines and react more rapidly and accurately in everyday operation. Customers report that with zenon they can reduce error-rates and system stops by up to 90%.

ONE PROJECT - ALL LANGUAGES

With zenon you can apply any desired language with any unit measurement. Just configure the project, adapt the language and unit conversion and your project is already up and running in every language you have specified. You do this in just a mouse click or automatically switch with the login. If a new language is added just supplement with the necessary terms – and it's done.

CONFIGURE RECIPES ONLINE

The Recipegroup Manager not only gives a clear overview of the creation and management of complex recipes, it also noticeably eases handling in the Runtime. Instead of needing to memorize all parameters of comprehensive recipes, the users can have their own screen for graphical recipe

configuration. Here you can edit the exact parameters which need to be changed; it's clear to understand and easy to handle. zenon will then automatically assign the entries to the recipe.

CHAMELEON TECHNOLOGY: EACH PANEL IN AN INDIVIDUAL DESIGN

Make working with your panels attractive and ensure clear recognition. You can define your own colors with the zenon color palettes which can automatically be switched and configured. When can you gain something from this? For example, if you are assigning a layout for various environments with different colors, such as direct sunlight or night. Or perhaps you are providing your suppliers with templates. When you get them back you can easily adapt the color palettes in a mouse click. Just like a chameleon, zenon changes its screen look in a matter of seconds and you can easily allow for various designs and branding in your project.

Ergonomics and engineering

EFFORTLESS AND EFFICIENT ENGINEERING

You can create your projects as easily and ergonomically as you use the zenon Runtime. Particularly because you can consistently reuse all produced elements. Once configured, any driver, any variable and any function can continually be used again and again, even across projects. Therefore, you can make an obvious reduction in project development time and can easily reimplement completed projects in other applications. A customer described it like this: "Unbelievable - only a few mouse clicks instead of over 30,000 lines of code!" The secret behind it? Set parameters instead of programming using the zenon Editor - that is ergonomics!

RAPID PROJECT DEVELOPMENT

Object orientation speeds up your engineering, just as the intelligent wizards and complete templates for your process screens do. Of course you can put everything together step by step - or use the many wizards to create standard configurations within minutes. Plus, configurable templates provide your process screens with a suitable configuration of control elements in just two mouse clicks. Newcomers can quickly create projects ready for use; professionals can significantly speed up their work so they can spend their time exploring creative concepts instead of time-consuming programming.

EXCELLENT CONNECTIVITY

Integrating a new machine, or a completely new plant site, is not a big problem with zenon. You just need to configure the required drivers and go online again. zenon delivers over 300 communication protocols, from all the important standards to rare proprietary drivers. Thus, you can easily implement zenon into any existing equipment and deploy new machines quickly and calmly.

HOT RELOAD MAKES YOU FLEXIBLE

The configuration needs to be expanded or changed? With zenon, these tasks can be taken care of in just a few steps: you can configure a project in the Editor as required, test it with the integrated simulation and play it back into the equipment during live operation! zenon hot reload updates the Runtime files, without having to stop production. In practice, this means reacting quickly to customer needs, instead of weekend work and plant downtime of your equipment.

ONE-TIME ENGINEERING - REUSE AGAIN AND AGAIN

Automation can be very simple and very clear: you produce a project and use it again and again. Various parameters such as drivers, variables, alarm notices or new logos and colors, can be changed by parameterization or even entirely automatically. Make your projects more productive now!

zenon Logic

INTEGRATED PLC SYSTEM

With zenon Logic, zenon offers an integrated PLC system. Here you can, for example, use real PLC code for simulations. Or you can access any hardware, such as a sensor. As an efficient IEC 61131-3 programming environment, zenon Logic offers you the most widely used languages (IL, ST, LD, FBD/CFC and AS).

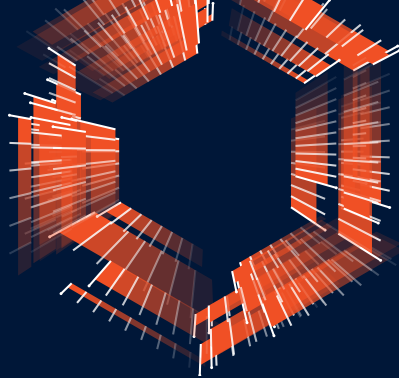
THE TOOL FOR PERFECT PROJECT SIMULATION

zenon uses zenon Logic to save you time and energy during start-up and for project changes - with perfect project simulation. To test a project, just go to the test mode. zenon Logic simulates the PLC and offers realistic values during testing. You can immediately see how the project is running in the plant and can correct any mistakes before going live.

COMPLETELY INTEGRATED

zenon Logic can be deployed on various hardware platforms, from the PC to the automation hardware, and utilizes the same database as zenon Supervisor and zenon Operator. You can, therefore, always access the same data and only need to create objects and variables once, then update them only once. You gain an overview, speed and security.





zenon Operator

“ *Ergonomics brings
security and efficiency.* ”

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do it your way

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Publication number: CD-ZOF-E-13-09-02



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