

# Efficient engineering with the zenon Software Platform

## Ergonomics in engineering [1/5]



Ergonomics in zenon starts with a consistent development environment. The software platform creates synergies in engineering from the PLC programming right up to complex SCADA projects. This makes your work easier and lays the ideal foundation for quick and error-free engineering.

### A CONSISTENT SOLUTION FROM SENSOR TO ERP

zenon can be expanded in a modular fashion and will grow with your requirements. Such flexible expansion guarantees the security of your investment. Reusability is continuously guaranteed thanks to a common database, and zenon projects are completely scalable. This means that, for example, existing HMI projects can be easily developed into a complex SCADA system or expanded into a complete company-wide solution with dynamic production reporting.

### CONSISTENCY IN ENGINEERING

The consistency of zenon sets new standards in the HMI/SCADA world.

- ▶ Complete software platform: from IEC 61131-3 programming to high-performance reporting
- ▶ Working platform-independent on all Windows versions
- ▶ Projects run consistently – from PC to CE panels – without adaptation.
- ▶ Freely define client / server relationships regardless of hardware used.
- ▶ Vertical integration: from field level through to superordinate ERP systems

- ▶ Consistent flow of information through to smartphones via zenon Service Grid
- ▶ No need to configure for screen resolution - automatic scaling means you create one project for all systems - from multi-monitor through to mobiles.
- ▶ Complete backward compatibility enables zenon projects based on older versions to be edited at any time

### SET PARAMETERS INSTEAD OF PROGRAMMING

You do not need programming knowledge to create a zenon project; you do not even need to be able to write scripts. Graphics, sequences (navigation), and logic are created at the click of a mouse using predefined functions and by assigning properties. All zenon functions are immediately 100% redundancy-compatible without additional work and can be used in any network. Thus, projects can be created very simply and efficiently and do not need to be laboriously adapted using unfamiliar code when edited later. Engineering by setting parameters has another decisive advantage over programming: a project can be run immediately on any Windows operating system because the code behind the parameters has already been designed to take the different features of the various Windows versions into account.

### FAST FACTS

- ▶ Consistent software platform
- ▶ Synergies in engineering
- ▶ Reusability across the entire functional scope
- ▶ Set parameters instead of programming

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<b>Set parameters instead of programming</b>	The object-oriented setting of parameters makes equipment control particularly simple and reliable. Objects can be defined centrally and globally, and are then available everywhere. Changes can be passed on to all linked objects with a single input - so changes are fast, consistent, and reliable.
<b>Able to work with multiple users, cross-project programming</b>	Yes
<b>Network-capable</b>	Yes
<b>Object orientation</b>	Yes
<b>Distributed engineering</b>	<ul style="list-style-type: none"><li>▶ Supports effective teamwork</li><li>▶ Edit projects simultaneously</li><li>▶ Edit projects remotely</li><li>▶ Reduce engineering time</li><li>▶ Increase quality and productivity</li><li>▶ SQL Server</li><li>▶ Safe access – no unintended overwriting</li></ul>
<b>Drag &amp; drop</b>	Full support for drag & drop, including configuration of elements.
<b>Filtering and sorting</b>	Comprehensive capabilities for filtering and sorting; for example, in lists of variables or functions and in language tables.
<b>Integration project</b>	Summarizes several projects, even those running independently, into a central overview.
<b>Global project</b>	Share objects, such as users or frames, across projects.
<b>Engineering of process-level technology</b>	Yes
<b>Documentation</b>	Projects can be documented automatically, including screenshots.
<b>Experience</b>	Years of experience, with over 155,000 installations across industry and in power station management. Proven reliability and practical suitability.