

# zenon Analyzer 3.20

## High production quality assurance and smart analysis

zenon Analyzer 3.20 now also supports statistical reports. Production quality can be assured with reports for Statistical Process Control. zenon Analyzer 3.20 also supports smart analyses thanks to reports for Predictive Analytics. The feature „Calculated Fields“ facilitates more flexible and customized reporting.



### STATISTICAL PROCESS CONTROL WITH ZENON ANALYZER

zenon Analyzer 3.20 offers reports for statistical evaluations of production quality at the touch of a button. Statistical Process Control (SPC) is often used to measure and assure quality in production settings. Alongside standard SPC reports (Process Capability, Control Chart, and Histogram), the zenon Analyzer also provides other statistical reports: Boxplot, Trend with Limits, or XY Chart can also be generated. These analysis options can be used to monitor the stability of production quality. Deviations can be identified at an early stage and production losses due to poor quality can be avoided.

### PREDICTIVE ANALYTICS

The zenon Analyzer 3.20 uses the new Predictive Analytics reports to produce smart analyses. The use of Predictive Analytics enables decisions to be made based on past values and with the assistance of prediction models. zenon Analyzer

supports two types of prediction. Time-based prediction forecasts how a value will develop over time. Value-based prediction shows how a value behaves if another value changes (e.g., to estimate energy consumption in the event of a change in production quantity).

To configure prediction models, the Prediction Model Manager has been introduced as a new tool in the zenon Analyzer Management Studio (ZAMS). The Prediction Model Manager includes wizards for the step-by-step creation of prediction models.

### CALCULATED FIELDS

The “Calculated Fields” function enables the data collected to be modified so that it is suitable for custom calculations. The Calculated Fields are configured and maintained in the zenon Analyzer Management Studio. Example applications for Calculated Fields include converting one measuring unit into another and merging or adding data, along with many more. The Calculated Fields increase flexibility in reporting, because reports can be customized to meet a user’s own specific requirements. For those in charge of creating projects, the Calculated Fields speed up engineering, as they no longer need to be post-edited manually in the Report Builder every time a report is issued.

### FAST FACTS

- ▶ Reports for Statistical Process Control to assure high quality
- ▶ Predictive Analytics for value-based or time-based predictions
- ▶ New tool: Prediction Model Manager
- ▶ Calculated Fields for more flexible custom report creation

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<b>SPC reports and other statistical reports</b>	<ul style="list-style-type: none"><li>▶ Process Capability; this report includes:<ul style="list-style-type: none"><li>- Process Potential (CP)</li><li>- Process Capability Index (CPK)</li><li>- Average</li><li>- Standard deviation</li></ul></li><li>▶ Control Chart</li><li>▶ Histogram</li><li>▶ Boxplot</li><li>▶ Trend with Limits<ul style="list-style-type: none"><li>- Trend</li><li>- Aggregated trend</li></ul></li><li>▶ XY Chart</li></ul>
<b>Predictive Analytics</b>	<ul style="list-style-type: none"><li>▶ Prediction Model Manager as a new tool in ZAMS</li><li>▶ Time-based predictions</li><li>▶ Value-based predictions</li></ul>
<b>Calculated Fields</b>	<ul style="list-style-type: none"><li>▶ More flexible report creation</li><li>▶ Faster engineering of custom reports</li></ul>
<b>Better overview for comparison reports</b>	<ul style="list-style-type: none"><li>▶ Comparison reports in a single merged rendering</li><li>▶ Easier comparability of up to 5 time periods</li></ul>
<b>Definition of central report styles</b>	<ul style="list-style-type: none"><li>▶ Central design definition of reports with regard to colors, fonts, trend curves, etc.</li></ul>
<b>Enhancements in the language table</b>	<ul style="list-style-type: none"><li>▶ Add languages</li><li>▶ Hide available languages</li><li>▶ Option to export part or all of the table to XML</li><li>▶ Improved filter options</li></ul>
<b>Usability improvements</b>	<ul style="list-style-type: none"><li>▶ Ongoing usability improvements in ZAMS</li><li>▶ Individual selection of RDL template and report style for every report</li><li>▶ Page size can be adapted for Report Launcher and printed reports</li><li>▶ Commenting of reports for description in the Report Launcher or in ZAMS</li><li>▶ And much more</li></ul>
	<p>To find out more about the additional new features in the zenon Analyzer 3.20, please also take a look at the release notes.</p>