




NAPCON ANALYTICS

NAPCON Understand solutions enable you
to dig deeper into the vast ocean of data
generated by your plant.





NAPCON ANALYTICS IS
THE LINK BETWEEN DATA
AND REAL KNOWLEDGE.

NAPCON Analytics turns data provided by your plant into a unified, easily understandable format and uses it to predict the real-life consequences of your operations.

NAPCON ANALYTICS MAIN FEATURES

COMPATIBILITY

Combined with your existing systems, NAPCON Analytics connects to any DCS, SCADA, APC, MOM, MES, ERP and a wide range of visualization and reporting systems.

INTELLIGENCE

Extend your operational and business intelligence systems with smart soft sensor calculations.

DIVERSITY

Wide range of industry specific calculation packages and possibilities, such as energy efficiency calculations, product property predictions and exact energy and mass balances.

SAFETY

Continuous verification and validity checking for process data including features such as recalculation when missing data points are re-entered.

DATA RECONCILIATION

Advanced signal conditioning by using data reconciliation.

SOFT SENSORS

Non-measurable online parameters for replacing measurements in continuous emission monitoring system (CEMS) or energy emission systems.



NAPCON ANALYTICS MAIN BENEFITS

INTELLIGENCE

NAPCON Analytics makes your existing operational and business intelligence systems even smarter.

EXPERTISE

We offer in-depth knowledge of industry specific calculations including calculation packages designed for process industry.

UNDERSTANDABILITY

NAPCON Analytics provides one coherent view of information.

RELIABILITY

Our solid experience of calculating models is fully at your service.

CUSTOMIZATION

We provide customizable, easily tailored solutions.



MAIN PROPERTIES

- Easily turn data provided by your multiple plants into a unified, understandable format and use it to predict the real-life consequences of your operations.
- Intuitive new on demand user interface to monitor your multi-site operation information anywhere.
- Foster digitalization and data driven culture by creating and exploring your favourite configurable dashboards for your team.
- Query and visualize your plant data securely in on-premises, cloud or hybrid cloud environment
- Excellent user experience based on long experience of process industry and latest technological evolutions.
- Evaluates and predicts immeasurable process operating key values with continuous validity checking for model inputs.

COMMUNICATION

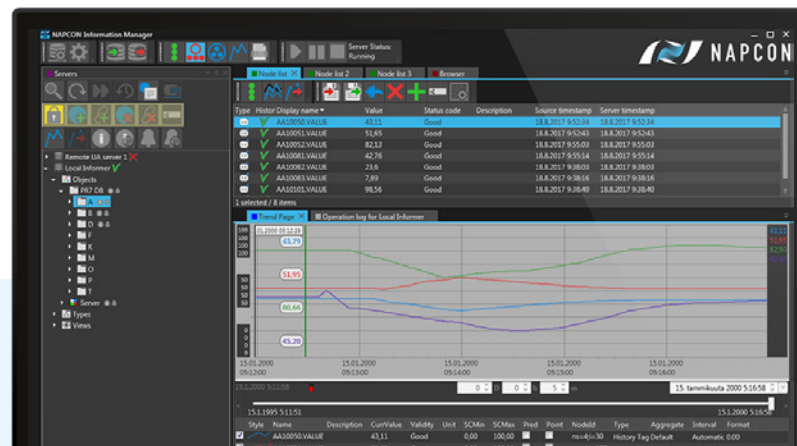
- Connections to any DCS, SCADA, MODBUS, APC, MOM, MES, ERP with OPC / OPC UA or file transfer based communication
- Wide range of security features: OPC UA based cyber security and safety logics for transferring calculation results to other systems.
- Integration to NAPCON APC applications utilizing the immeasurable process values for enhanced process control.
- Runs on NAPCON Informer platform offering advanced process information management services.
- REST API & Web service for NAPCON Informer.
- JSON-communication with web-based User Interfaces (newer versions of Chrome, Safari, Firefox)
- Python scripts for calculations.

CALCULATIONS

- Create on demand calculations and data visualization with a web application to be used for analytics, monitoring, big data etc.
- Use Pandas, data analysis library for Python and NumPy for 3rd party calculation extensions.
- Integration for real time applications and rigorous identified models with NAPCON Analytics - Quality Control.
- Support for time-independent calculation and OPC UA hierarchies and information models leveraged by advanced queries.
- Queries for selecting variables for calculations from data sources to be used in calculations: Simple and Advanced Queries.
- Easy-to-use simple calculations are formulas similar to those in pocket calculator.
- Versatile advanced calculations can contain arbitrary Python code.

TECHNOLOGY

- Web-based interface for operators and office users via desktop and mobile browsers.
- Amazing usability to accomplish controlling tasks simply and efficiently with web-based HTML5 technology.
- Beyond compare extendability with Pandas and NumPy data analysis packages.
- Numerous visualization options to help you understand your plant via it's data: Line chart, Bar chart, Histogram, Pie chart, Single number, Scatterplot
- Easily definable metrics and logs.
- Fully integrated database for managing calculation results.
- Built on Microsoft Azure Containers.
- Windows Server 2016 support, Optimized Hyper-V containers, Windows Azure.



NAPCON PRODUCTS



UNDERSTAND

NAPCON Understand solutions will turn the data provided by your plant into relevant information that help optimize your company's production.

[NAPCON Informer](#)
[NAPCON Analytics](#)



IMPROVE

NAPCON Improve solutions will bring out the maximum potential of your operations and help you ensure that your investments meet your strategic goals.

[NAPCON Controller](#)
[NAPCON Optimizer](#)



TRAIN

NAPCON Train solutions will bring the real life plant into the virtual world, making training operators and testing the limits of your plant safe and exciting.

[NAPCON Simulator](#)
[NAPCON Games](#)



DECIDE

NAPCON Decision support enables you to make the right decisions, even in complex conditions.

[NAPCON Energy Performance](#)
[NAPCON Flow Dynamics](#)
[NAPCON Business Optimizer](#)

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