

Endress+Hauser Introduces Netilion Water Networks Insights

The innovative, cloud-based monitoring solution from Endress+Hauser paves the way to comprehensive optimization and automation for water networks—from anywhere at any time.

February 22, 2022 – Netilion Water Network Insights (NWNi) enables full transparency for water networks around the clock by providing reliable monitoring of flow, pressure, temperature, level, water quality, and other measurements. This software service connects all levels of water supply systems, empowering service providers and water associations to manage multiple control and data sources through a single interface. These sources include field devices, industrial controllers, data transfer components, data recording and archiving devices, analysis and forecasting tools, and others.

NWNi provides access to all measurement data gathered in a water network and transmitted to the cloud, whether its users are accessing the system from a control room computer, via a laptop at home, on a tablet in the field, or from a smartphone on the move. The web-based interface provides users with complete system monitoring, and when limit values are exceeded, or in the event of failure, it delivers alarms to users via e-mail, SMS, or push notifications.

The software system includes many evaluation tools, including time curves, diagrams, tables, and trends, and by incorporating external data sources—such as weather prediction systems—users can also create trend analyses and forecasts. These tools help inform characteristics, like run-off during heavy rainfall, consumer water demand, and expected availability.

Secure and flexible connectivity options are critical for modern facilities, and NWNi provides these with cutting-edge data exchange technologies. All communication is encrypted and secure, even in remote regions with a self-sufficient power supply, providing data reliability and integrity.

NWNi provides facility personnel with systemwide views, reducing required rounds and verifying functional operation of remote spring taps, elevated reservoirs, pipelines, pumping

and distribution stations, and more. This makes it possible to keep close tabs on a broad range of system values and quality parameters including:

- Comprehensive water quantity and quality monitoring around the clock
- Accurate custody transfer allocation and cost accounting
- Reliable leak locating
- Weather impacts
- Energy efficiency and optimization

NWNI for wastewater – complying with environmental regulations

Industrial, commercial, and municipal wastewater regulatory agencies mandate many water quality parameters to protect the environment, so facilities must treat wastewater in several stages prior to discharge. To maintain compliance, these facilities must carefully monitor water quality, substance concentrations, pollution loads, and other parameters.

NWNI ensures wastewater treatment organizations meet or maintain these requirements at all times of the day, by assisting operations with:

- Reliable forecasts of in/outflows and water quality by leveraging current weather data and state-of-the-art analysis algorithms
- Optimal sizing of wastewater treatment plants through the comprehensive knowledge of effluent substance concentration and material loads in catchment areas
- Reliable substance concentration control by using data from liquid analysis devices
- Precise flow and concentration measurement to ensure accurate billing of wastewater charges
- Biological process risk mitigation by monitoring influent substance concentrations

Heartbeat Technology provides safety in custody transfer

In water custody transfer, infinitesimal inaccuracies in flow measurement can create significant billing discrepancies. Although frequent testing can reduce the occurrence of these errors, it historically required removing flowmeters from service for testing and calibration. Frequent removal is often impractical, particularly on large water pipelines over a few feet in diameter.

Addressing this challenge, Endress+Hauser's integrated Heartbeat Technology testing functionality provides verification of flow meter measurements with the push of a button. Users can view these automatically generated verification records in NWNI.

NWNI provides systemwide visualization and recordkeeping, improving regulatory, reporting, and custody transfer accuracy. These tools help water agencies streamline operations, improve decision-making, and increase revenue streams.

To learn more about NWNI visit: <https://eh.digital/3gTSZyG>

Contact:

Jackie Renforth
Content Team Manager
Endress+Hauser
2350 Endress Place, Greenwood, IN 46143
Phone: 317-535-1306
Jackie.renforth@endress.com
www.us.endress.com

About Endress+Hauser in the U.S.

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition. We work closely with the chemical, petrochemical, food & beverage, oil & gas, water & wastewater, power & energy, life science, primaries & metal, renewable energies, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers in optimizing their processes in terms of reliability, safety, economic efficiency and environmental impact. The Group employs nearly 15,000 personnel worldwide and generated [net sales of] more than 2.9 billion euros (3.3 billion U.S. dollars) in 2021. For more information please visit, us.endress.com.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of approximately 2.9 billion euros in 2021 with a total workforce of more than 15,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to

improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in more than 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,600 patents and applications protect the Group's intellectual property.

For further information, please visit www.endress.com/media-center or www.endress.com