

Micropilot FWR30

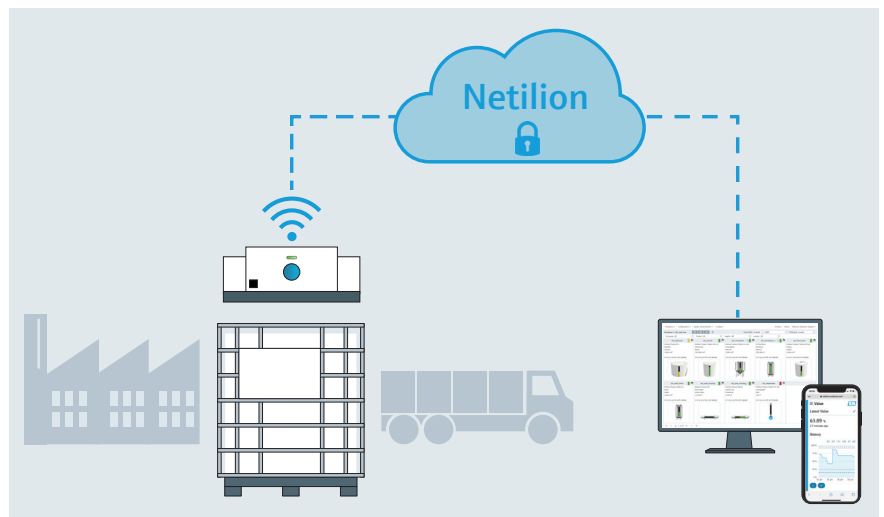
The cloud connected level sensor

Benefits at a glance

- Full transparency in storage and transportation of liquids
- Simplified solution from procurement to operations
- Secure data transmission combined with a flexible, digital service portfolio
- Information access from anywhere at any time

Technical Information

- Communication type: SIM-Card with secure communication (NB-IoT, LTE-M with 2G fallback)
- Replaceable battery with more than 10 years battery lifetime
- Level technology: 80GHz Radar technology
- Measuring range: Up to 15 meters (50 feet)
- Temperature range: -20°C...+60°C (-4°F...+140°F)
- Software applications: From measurepoint monitoring to inventory management



The remote locations of plastic tanks cause several challenges for level measurement. Those issues compound when not just one, but multiple tanks are widely scattered. Ideally, these tanks would allow remote access, and it would be possible to set specific storage limits which trigger an immediate notification when reached. However, in more than 80% of all production plants, level measurement is done manually. This type of manual monitoring is both time and cost-intensive. So, very often, this results in missing stocks only being registered when the tank has already run empty, and the production process has come to a halt. Clearly, a better solution is needed.

The Micropilot FWR30, combined with digital services, is the world's first wireless 80GHz IIoT radar sensor. It has been developed by Endress+Hauser to provide all the information you need to manage inventory in remote, and mobile applications. Plus, it has been designed to provide continuous simplicity in purchase, installation, and usage.

The smart level sensor contains cutting edge technology integrated in a compact, and cost-effective, measuring device. It combines simplicity with the capability to access measured values at any time, and from anywhere. Saving time and providing information to help optimize logistic and storage processes.

Transparency at any time

The IIoT radar sensor and 80GHz radar technology in the Micropilot FWR30 unite reliability and high-precision level measurement. Delivering facts where previously only assumptions were possible. This combination of sensor and digital service provides data on stocks, and the status of the device, from anywhere at any time.

On top of that, the cloud-based solution gives information on container location, ambient temperature, and measured value history as well as battery and connectivity status. And the certified Netilion cloud service provides the highest security and data protection possible.

Simplicity from scratch

From procurement to operation, the Micropilot FWR30, along with its software applications, is designed to simplify processes. This compact device is a perfect fit for stackable tanks, and enables a plug-and-play solution for flexible and easy installation. With only a few simple steps, users can mount the sensor to a plastic tank, and, thanks to the integrated battery, no external power supply is needed. This, along with using the latest wireless technologies such as NB-IoT and LTE-M, enables trouble-free use, even at hard-to-reach locations. Allowing data to be obtained at low cost, and with low energy consumption, from anywhere.



Flexibility and scalability

Scalable digital services give users the flexibility to choose the best possible process support for every application. Depending on individual requirements, the Micropilot can be linked to the digital starter package, Netilion Value; the resulting web application, Netilion Inventory; or the comprehensive inventory management solution, SupplyCare Hosting. The measurement data for all digital services can be retrieved via multiple end devices, such as smartphone, tablet, or desktop computer.

Netilion Value is a simple digital monitoring solution. The web application provides a dashboard, current values, historical data, alarms, notifications, and a simple user interface. Intelligent sensors can be integrated and connected with just a few clicks.

Netilion Inventory offers a simplified monitoring service to support basic inventory management applications. It comes with add-ons like volume calculation or forecast, and determines the free storage capacity. This extended service provides the user with an easy overview of the status of tanks, silos, and containers.

SupplyCare Hosting is a comprehensive inventory management solution which provides users with event history, a customizable overview, and the evaluation of key performance indicators such as average stock, efficiency, or turnover rate. Managing users is made simple with role-based, adaptable access rights allowing for the integration of suppliers, customers and partners into the software. SupplyCare Hosting also provides user-friendly demand planning, and can be synchronized with all common ERP systems.

Typical applications

- Level measurement and inventory management of mobile and stationary plastic tanks
- Tracking of mobile plastic tanks like IBCs

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