

# Tank level monitoring

Liquids of different types are necessary ingredients for all types of production, from the bakery on the corner, the towns truck workshop, and up to the largest production plants.

Tank level monitoring is important for a variety of reasons, including:

## 1. Preventing tank overflows:

Monitoring tank levels helps to prevent tanks from overflowing, which can cause environmental damage, safety hazards, and financial losses. By knowing when a tank is approaching its capacity, measures can be taken to avoid overflows.

## 2. Ensuring continuous supply:

Monitoring tank levels is important to ensure a continuous supply of material or substance.

## 3. Optimizing tank usage:

Knowing the level of material or substance in a tank can help optimize its usage. This allows for efficient scheduling of deliveries and better management of inventory levels.

## 4. Predictive maintenance:

Tank level monitoring can help identify potential problems with the tank, such as leaks or corrosion. Early detection of these issues can allow for proactive maintenance and prevent more serious problems down the line.

## 5. Regulatory compliance:

Many industries are subject to regulations governing the handling and storage of materials or substances in tanks. Accurate monitoring of tank levels is necessary to ensure compliance with these regulations and avoid fines or legal issues.



## 6. Theft and loss protection:

Continuous monitoring and logging prevents thefts from the tanks, and secures that you don't forget to invoice the customers for delivered goods

## Challenge

- Obvious, keeping track of fluid levels are crucial to keep the process running and to secure high throughput and happy customers.
- Usually this task is done manually, by visual inspection of tank levels or reading local level indicators. Manual tasks are time consuming and usually only random samples are performed, leaving room for the tanks to be drained, leak or overflow without proper warning.

## Solution

- Realtime and online tank level monitoring can be utilized by Neuron IoT sensors and gives continuous monitoring of level changes down to the second and liter.
- This works by dropping a level probe inside the tank which will transmit the actual level of the liquids to a connected wireless IoT data collector. From there it will be wirelessly transmitted (by cellular network) to the Neuron cloud for logging and visualisation at your phone or computer. Alerts can be added in the App to alert you that the tank need attention.

## What you get

- A drop-in tank level sensor with wireless data transmission to the Neuron cloud.
- An electronic log of all measurements over the last 12 months will be kept in the Neuron Cloud.
- Alerts when levels are reaching critical limits can be sent to operators or management on e-mail, SMS or through push warnings on a mobile phone.
- Integration options for connecting the data stream to your own facility management software through APIs of various kind.



## Products in use

- Neuron Precision mA Digitizer