

# IoT water monitoring system

Ensuring continuous food  
production through  
automated water tank  
monitoring & refill alerts



**CUSTOMER  
SUCCESS STORY**



## Customer challenge

Frey's Foods operates a large-scale food production facility, employing over 2 000 staff. Maintaining a reliable water supply is critical to both the manufacturing process and meeting strict hygiene standards.

However, an inconsistent water supply meant the business had to depend on large on-site storage tanks. Monitoring these tanks manually risked delays in refilling, creating the potential for production stoppages.

## The solution

First Digital from First Technology Group developed a custom IoT-based water level monitoring solution using submersible, IP-rated LoRaWAN devices.

The system securely transmitted water level data every 30 minutes to an Azure-hosted InfluxDB, enabling proactive alerts and automatic refill triggers.

The solution was designed for durability, with a two-year battery life and chemical- and water-resistant enclosures, reducing maintenance needs and ensuring reliability.



## The results

- **Continuous operations:** Eliminates the risk of water shortages causing production downtime.
- **Low maintenance:** Durable devices with a two-year battery life and minimal upkeep requirements.
- **Proactive management:** Automated alerts and event-driven refills ensure water tanks remain topped up without manual intervention.
- **Improved visibility:** Real-time monitoring and configurable reports empower operations teams to make timely decisions.