



Frey's Foods

CLIENT

Agri & Food

INDUSTRY

Design · Develop

DELIVERED AS

• LoRaWAN

• InfluxDB

• Azure

• Grafana

FIRST DIGITAL IOT

Keeping Frey's Foods running with submersible water-level sensors

Submersible LoRaWAN sensors that keep Frey's Foods' on-site water tanks topped up, so a plant of more than 2,000 staff never runs dry.

01

THE CHALLENGE

More than 2,000 staff at Frey's Foods depend on a reliable water supply, both for production and for strict hygiene standards. The plant keeps large on-site tanks as a backup against unreliable municipal water, and those tanks have to stay topped up.

02

THE APPROACH

We designed a custom monitoring solution using IP-rated, fully submersible LoRaWAN devices, chosen for their accuracy and their ability to connect wirelessly over long distances. Each device has a two-year battery and a water- and chemical-proof enclosure, and sends readings to an Azure-hosted InfluxDB every 30 minutes over a LoRaWAN network, with a local repeater service to carry the signal. Configurable Grafana reports show the data, and an event-driven design raises critical events so the top-up process starts automatically or warns of a possible shortage before it stops production.

03

THE OUTCOME

Frey's now has a reliable, low-maintenance way to keep its water tanks topped up automatically. The long-range wireless design suits a large plant, and staff set their own rules and limits and get notified through a secure web interface.

04

SUMMARY & BENEFITS

- ✓ Low-maintenance monitoring for on-site water storage tanks.
- ✓ Configurable rules and automatic top-up before production is affected.
- ✓ Long-range wireless coverage suited to a large production site.

CASE REFERENCE · AGRI & FOOD

Frey's Foods



FDX - Custom Electronics

Frey's Foods

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