



## Reliable Chemical Tank Level Monitoring with Remote Access

### Radar Level Measurement for a Raw Sewage Vault

#### The Challenge

A wastewater treatment facility required reliable level measurement for its sewage intake vault. Sewage is pumped into an underground vault before entering the treatment process.

The media contains faecal matter, paper, grease and debris, and often produces foam when agitated during pumping.

Previously, the plant alternated between pressure sensors and ultrasonic sensors. Pressure sensors frequently became blocked, while ultrasonic sensors produced unreliable readings when foam was present.

As the instrumentation technician explained:

*“We can’t do this anymore. I need a sensor that works reliably in this application with a metal enclosure and simple push-button configuration.”*



For more information on protecting your business from leaks, please get in touch with our Safety Equipment Specialist, Gary Hand, by calling 01 461 4338 or email [gary.hand@modernplant.ie](mailto:gary.hand@modernplant.ie)





## The Solution

Flowline recommended the EchoPulse® LR10 radar level transmitter, a non-contact sensor designed for dependable liquid level measurement.

The 26 GHz pulse radar technology is unaffected by foam, vapour or condensation, ensuring stable readings in challenging conditions. The sensor also features a rugged aluminium enclosure and simple push-button configuration, allowing straightforward installation and operation.

## The Results

With the LR10 installed, the facility achieved:

- Reliable vault level measurement
- Stable readings despite foam and agitation
- Reduced maintenance compared to previous sensors
- Continuous level data is transmitted to the SCADA system controlling sewage transfers



## Why EchoPulse LR10

Continuous level measurement up to 10 m with reliable 4–20 mA output.

26 GHz radar unaffected by vapour or condensation, PTFE antenna for corrosive environments, 300 mm dead band for improved tank use, simple push-button setup, and an IP67 aluminium enclosure with viewing window.

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