

Level Switch Delivers Reliable High Tank Level Detection

RESULTS

- Eliminated false switching
- Improved measurement reliability
- Installed easily on thin wall channel
- Minimized maintenance
- Interfaced easily into existing DCS



APPLICATION

High-level detection in the channels carrying wash-water to band screens on the inlet to the water-works.

CUSTOMER

Water-works facility in Europe

CHALLENGE

Frequently, wash-water channels are manufactured from thin wall materials. Supporting the weight of heavy instrumentation directly mounted to the channel can be difficult for a thin wall channel design. Additionally, the wash-water is dirty and causes heavy build-up on the channel walls and instrumentation surfaces. The buildup on the instrumentation can adversely affect the measurement reliability.

A European water-works facility required a level measurement that was light weight to easily mount onto the thin wall channel. They also required the measurement to withstand buildup while reporting an accurate level reading.

SOLUTION

The Rosemount 2110 Vibration Fork Level Switch was chosen to address the application challenges. The lightweight design is easily installed onto thin wall stainless steel channels via a threaded connection with back nuts and sealing washers.

The non-mechanical tuning fork principle of operation means no moving parts, thus minimizing maintenance costs. The elimination of moving parts in the 2110 improves the overall ability for the product to effectively function in applications containing large amounts of product buildup around the fork to further reduce maintenance costs and improve measurement reliability. Additionally, continuous status of the application is available via the built-in heartbeat LED.

Interfacing with the DCS system onsite easily achieved done using the direct electrical load switching output on the 2110.

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RESOURCES

Rosemount 2110

<http://www.emersonprocess.com/rosemount/products/level/m2110.html>

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