

# Prevent Tank Overspill with Hygienic Level Switch

## RESULTS

- Reliable level and filling control
- Withstands Clean in Place procedures to increase operational efficiency
- Provides sensitivity to distinguish liquids from foam



## APPLICATION

Tank filling overspill detection in yogurt production

## CUSTOMER

Dairy producer in Europe

## CHALLENGE

In the packaging line for consumer-size yogurt containers, overfill of these small containers occasionally occurs. The excess material is collected in a small funnel-shaped tank for reuse. These tanks hold about 13 gallons (50 liters) of material. The collection process is carried out automatically in a clean environment.

The level challenge is to detect the presence of material in the tank and to know when the tank is full in these very small vessels with limited capacity. Hygiene is of paramount importance in any dairy process. The tanks are cleaned by flushing and hand washing at least once per day and the instruments must be able to withstand this process.

## SOLUTION

Two Rosemount 2110 vibrating fork level point switches are used in each tank for reliable low and high –level detection. The 2110 is available with tri-clamp connections and a hygienic mounting inlet for easy installation.

Highly polished forks with a surface finish (Ra) better than 0.8  $\mu\text{m}$  allows the 2110 to meet the principle design criteria of the most stringent hygienic requirements.

The hygienic 2110 is designed to withstand the cleaning processes of the dairy industry. Manufactured in stainless steel, the 2110 is capable of withstanding steam cleaning (CIP) routines at temperatures up to 302° F (150° C). The sensitivity of the 2110 allows it to measure viscous liquids and liquids with high solid content while ignoring low/medium density foams and aeration.



*The hygienic vibrating fork level switches mounted in the overspill tank.*

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**RESOURCES**

**Rosemount 2110**

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

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