

Rosemount 2110 Hygienic Tank Overspill Measurement

RESULTS

- Reliable level and filling control
- Ideal for hygienic requirements
- Designed to withstand CIP cleaning processes
- Simple to install



Figure 1: The Rosemount 2110 vibrating fork level switch with a hygienic mounting kit.

APPLICATION

Tank filling overspill detection in yogurt production plants

CUSTOMER

Dairy producers

CHALLENGE

When filling the consumer packages with yogurt, any overfill and spill is collected in a funnel-shaped tank. Typically, these tanks have room for 13 gallons (50 liters) and the tank empties from the bottom. This process is carried out automatically. A level device is required to control the filling of the tanks.

Hygiene is of paramount importance. The tanks are cleaned by flushing and hand washing at least once a day.

SOLUTION

Two Rosemount 2110 vibrating fork level point switches are used in every tank for reliable low and high-level switching. The 2110 is available with a 1-in. BSPP or Tri-clamp connection and a hygienic mounting inlet suitable for easy installation.

With the option of highly polished forks with a surface finish (Ra) better than 0.8 μm , the 2110 meets the principle design criteria of the most stringent hygienic requirements.

The hygienic 2110 is specifically designed to withstand cleaning processes. Manufactured in stainless steel, the 2110 is capable of withstanding steam cleaning (CIP) routines at temperatures up to 302 °F (150 °C). Working in viscous liquids and liquids with high solids content, the 2110 will ignore low/medium density foams and aeration.



Figure 2: The hygienic vibrating fork level switches mounted in the overspill tank.



Figure 3: The inside of the tank showing the hygienic vibrating fork.

ROSEMOUNT

For more information:
www.rosemount.com


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Emerson Process Management

Rosemount Inc.
8200 Market Boulevard
Chanhassen, MN 55317 USA
T (U.S.) 1-800-999-9307
T (International) (952) 906-8888
F (952) 949-7001
www.rosemount.com

Emerson Process Management

Europe, Middle East & Africa
Health Place
Bognor Regis
West Sussex PO22 9SH
England
Tel 44 1243 863121
Fax 44 1243 867554

Emerson Process Management

Emerson Process Management Asia Pacific
Private Limited
1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947
Enquiries@AP.EmersonProcess.com

ROSEMOUNT[®]

For more information:
www.rosemount.com


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