FOOD & BEVERAGE ROSEMOUNT 5600

# Accurate Level Measurement in Edible Oil Tanks Allows Tighter Process Control

#### **RESULTS**

- Reliable and accurate measurement on a low dielectric fluid
- Reduced maintenance
- Higher quality end product



# **APPLICATION**

Tank level for olive oil and other edible oils

**Application Characteristics:** Hot, low dielectric, food grade oil in a tall storage vessel with turbulence

#### **CUSTOMER**

Producer of food grade oils in Europe

#### **CHALLENGE**

The tanks in this application are used for storage of olive oil and other edible oils. They are 39 to 52 ft (12 to 16 m) high and have an operating temperature of 212  $^{\circ}$ F (100  $^{\circ}$ C).

Agitation, long distances, low dielectric and vapors combine to make a difficult application condition for radar transmitters. Additional requirements include that any level device must meet hygiene standards and be easy to clean. No other level transmitters have measured correctly in these tanks.

Accuracy and reliability are very important for the quality of the finished products. This customer previously used mass flowmeters for measuring purposes, but they did not produce accurate results in this application. In the event of an inaccurate reading from the flowmeter, the error would propagte all the way down the production line, and not be discovered until manufacture was complete.

# **SOLUTION**

The 4-wire Rosemount 5601 Radar Level Transmitter has increased power to reliably cope with the adverse conditions. Because the process seal antenna provides an easy-to-clean surface, it meets the hygienic requirement. The increased reliability and accurate measurement provides tighter process control, resulting in higher quality in the end product.



The Rosemount 5600 transmitter is mounted on an existing nozzle on the tank roof.



For more information: www.rosemount.com



# **FOOD & BEVERAGE**

Previous instrumentation gave inaccurate readings which resulted in incorrect volumes and a low quality final blend. The better accuracy provided by the radar gauge results in more consistent blends by way of better volume measurement and control.

# **RESOURCES**

#### Rosemount 5600

http://www.emersonprocess.com/rosemount/products/level/m5600.html

Emerson Process Management's Food and Beverage Industry Web Page

http://www.emersonprocess.com/foodandbeverage/



The Rosemount 5600 with Process Seal Antenna.

Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc. All other marks are the property of their respective owners.

**Emerson Process Management** 

Rosemount Division 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

Heath Place Bognor Regis West Sussex PO22 9SH, England T (44) 1243 863121 F (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



For more information: www.rosemount.com

