

Sugar and Confections Manufacturer Reduces Safety Risk and Improves Inventory Management

RESULTS

- Eliminated safety risk to operators
- Improved inventory management
- Reduced operation and maintenance costs



APPLICATION

Level measurement of liquid sweetener inventory held by the manufacturers customers nationwide

APPLICATION CHARACTERISTICS

Measurement locations are scattered throughout the United States

CUSTOMER

A large sweetener manufacturer in the U.S.

CHALLENGE

A large sweetener manufacturing company needed to improve inventory monitoring of liquid sweetener in tanks at their customer's facilities across the United States. The level of the product is measured to facilitate ordering from the manufacturer when needed and to monitor the product usage.

The previous technology used was submerged hydrostatic pressure transmitters. These analog transmitters were difficult to configure and were setup incorrectly. They also were sensitive to any density changes. Inaccurate level measurement of the sweetener led to unnecessary order scheduling which led to extra delivery and inventory cost. Technicians needed to access the transmitters for configuration and maintenance at the top of the tanks. Many of the ladders used to access the tank tops were in poor condition resulting in high safety risks during configuration and maintenance. Maintenance costs increased due to frequent checking of the transmitter's accuracy.

Sweetener manufacturer reduced delivery cost and improved safety by improving inventory level measurement



Figure 1: Rosemount 3102 Ultrasonic Transmitter

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SOLUTION

The customer installed a Rosemount 3102 Ultrasonic Transmitter to replace the inaccurate hydrostatic pressure transmitters. This ultrasonic transmitter provided a more reliable and accurate sweetener level measurement that is independent of range and density variations. Since the Rosemount 3102 is a HART® device, setup and configuration could be accessed by a Field Communicator from the ground, eliminating the need to climb the ladders. In addition, once the units were configured, no additional modifications were needed to account for any density changes. The customer was impressed with the performance of the ultrasonic transmitter. Measurement accuracy was improved leading to reduced inventory costs. The ability to configure and maintain the instruments from ground level reduced the risk of safety and decreased maintenance costs. Accurate inventory monitoring and customer usage tracking led to reduced operating cost. The manufacturer is deploying this solution at their customer locations nationwide.

RESOURCES

Emerson Process Management Food & Beverage Industry

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

Rosemount Ultrasonic Level Transmitters

<http://www2.emersonprocess.com/en-US/brands/rosemount/Level/Ultrasonic-Transmitters/Pages/index.aspx>

Rosemount 3100 Series Ultrasonic Level Transmitters

<http://www2.emersonprocess.com/siteadmincenter/PM%20Rosemount%20Documents/00813-0100-4840.pdf>

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