

Vega Brewery increases plant throughput with the Rosemount 1408H Level Transmitter

Results

- Maximized production capabilities and prevention of product loss
- Accurate and reliable level measurement achieved despite foam and hops
- Reduced time spent on commissioning and configuring
- Measurement unaffected by CIP processes



Application

Hygienic level measurement in a brewery.

Customer

Vega Brewery (Sweden)

Challenge

Vega Brewery was founded in 2011 in Gothenburg and produces around 15 different products, including India Pale Ale, American Pale Ale, stouts and lagers, as well as non-alcoholic beers. They produced around 100,000 liters in 2020 and is aiming for growth of around 20% year-on-year over the next three years.

The brewery has six fermentation tanks and, due to a lack of visibility into their processes, they had to estimate the product level within the tanks. This method was prone to human error and inaccuracy and was therefore impacting the efficiency of the brewing process.

The challenge that the customer faced, apart from the lack of visibility, was the presence of foam and hops on the surface of liquids during fermentation processes, which could affect the signal strength of radar transmitters. Additionally, the company needed to ensure that the performance of their measurement devices would not be affected by CIP processes.

Solution

The customer installed the Emerson Rosemount™ 1408H Non-Contacting Level Transmitter on three of their fermentation tanks, using IO-Link communication with Rosemount IO-Link Assistant software to read parameter values from a local PC.

“The ability to add ingredients with greater precision has enabled us to analyze and improve our processes and maximize the production capability at our plant.”

Ulf Eriksson
Chief brewer



Rosemount 1408H Level Transmitter with hygienic adapter.

The transmitters were easy to install and simple to configure, which helped the customer to save time and didn't require any previous knowledge about instrumentation commissioning. Also, since the devices were installed, they have gained detailed insight into the fermentation processes at their plant.

With the Rosemount 1408H, the customer has been able to achieve robust, reliable and accurate level measurement right to the top of their tanks despite the presence of foam and hops on the surface of the liquid. The radar has no dead-zone and features Fast Sweep Technology (FST), which allows the usage of the fermentation tanks to their full capacity without risk of overflow, thereby maximizing production capacity.

Additionally, the performance of the measurement devices is unaffected by CIP processes. The sensors feature a unique CIP algorithm to detect cleaning processes and they have proved to withstand them, so the customer can benefit from making sure process residue is removed completely while the level measurement device stays stable without erratic behavior or alerts.

Ultimately, the installation of the Rosemount 1408H has enabled Vega Brewery to automate their processes and gain visibility into the level of product in tanks, allowing them to increase throughput at their plant, prevent product loss and improve beer quality.

Resources

Emerson Automation Solutions Industries
[Emerson.com/FoodandBeverage](https://www.emerson.com/foodandbeverage)

Rosemount 1408H Level Transmitter
[Emerson.com/Rosemount1408H](https://www.emerson.com/Rosemount1408H)

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ROSEMOUNT™

“Installing the devices was straightforward, taking less than one hour, and they proved very easy to use, which was crucial for us.”

Ulf Eriksson
Chief Brewer



The Rosemount IO-Link Assistant software provides a real-time view of the process data.

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