

Decrease Maintenance Costs and Reduce Risk of Shutdown with Wireless Vibrating Fork Level Switch

POTENTIAL RESULTS

- Decrease maintenance time and costs
- Minimize safety risks
- Reduce risk of unplanned shutdown
- Eliminate risk of damaging cable runs



APPLICATION

Point Level Detection with Advanced Diagnostics

CHALLENGE

Traditionally liquid level detection has required periodic monitoring to test for correct operation. Maintenance trips to remote tanks can be time consuming and expensive. Unforeseen problems with level instruments could result in unscheduled trips and unplanned shutdowns. If failure diagnostic information is not available, additional trips may be required to further fix the problem.

Plant personnel want to minimize the cost and time of trips to the field. They want to know that their level devices are operating normally so the number and duration of trips can be minimized.

Without access to instrument health data, plant personnel are required to make routine trips to the field to perform periodic checks, make extra trips to the field to fix problems, and assume the risk of climbing tanks. If these periodic checks are not performed, plant operations risk increased abnormal situations including shutdowns and spills.

SOLUTION

For increased accessibility to diagnostic information, these customers can install a Rosemount 2160 Wireless Vibrating Fork Liquid Level Switch. This point level switch uses WirelessHART™ communication to deliver process conditions from previously inaccessible locations in to any host system, without wires. The Rosemount 2160 provides instrument health diagnostic information to the control room via PlantWeb® alerts. These alerts notify the operator of conditions such as internal or external damage to the fork sensor, media build-up on the forks, excessive corrosion, and the potential effects of damage caused by over-temperature.



Figure 1. Rosemount 2160***S wireless vibrating fork liquid level switch

With access to advanced diagnostics, customers can implement a preventative maintenance program to reduce the number of field visits thereby reducing maintenance costs, safety risks, and the risk of unplanned shutdowns.

RESOURCES

Rosemount 2160 Wireless Vibrating Fork Liquid Level Switch

<http://www2.emersonprocess.com/en-US/brands/rosemount/Level/2100-Series-Level-Switches/2160-Level-Switches/Pages/index.aspx>



Figure 2. Rosemount 2160***E wireless vibrating fork liquid level switch- extended temperature version

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