

Reduce Project Costs and Increase Safety with Wireless Vibrating Fork Level Switch

POTENTIAL RESULTS

- Reduce project costs
- Decrease safety and environmental risks
- Reduce operations costs
- Eliminate need for cable runs



APPLICATION

Tank Overfill Prevention

CHALLENGE

Regulations across all industries require overfill monitoring to prevent safety incidents and environmental harm associated with tank spills. The installation of overfill monitoring technology can be expensive because of inaccessibility or installation constraints.

For example, installation of alarm points may be difficult due to inaccessibility of power or communications. This may be due to existing power and communications cables already being fully utilized, distances that make cable economically unattractive, or obstructions that make traditional cable installations impractical. In all these situations, plant personnel resort to manual methods of monitoring tanks.

Manual tank monitoring incurs high operational costs and risks the safety of the plant personnel who check the tanks. Without a cost effective automated level alarm, these customers are impacted by risk of non-compliance with regulations resulting in potential fines. If tanks overflow, they risk the safety of personnel and impact the environment. Automation of these alarms is not considered due to the expectation of high installation costs.

SOLUTION

To solve issues of inaccessible or uneconomic level alarms, these sites can install a Rosemount 2160 Wireless Vibrating Fork Liquid Level Switch. Since the instrument operates wirelessly, cable runs are eliminated and installation costs are reduced. The 2160 level switch uses WirelessHART™ communication to deliver process conditions from previously inaccessible locations to any host system. The transmitter is powered by an integral power module and requires very little power. Therefore it maintains a long battery life even with fast update rates.



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

With access to remote level alarms, customers can experience a variety of positive outcomes. They are able to comply with safety regulations without high capital costs. A reliable level alarm prevents tank overfills and minimizes safety and environmental risks. By eliminating manual measurement, they reduce safety risk to the plant personnel and reduce operations costs.

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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