How do I know the Rosemount 2140 is a good fit for overfill prevention and hi-level alarm applications?

Vibrating fork switch technology is time-proven and less prone to failure compared with other level technologies, with operation virtually unaffected by challenging / changing process conditions. They have gained in popularity due to their diagnostics capability, and the ability to perform a functional or proof-test, allowing operators to verify device integrity at all times

The Rosemount 2140 Level Detector offers:
- 4-20mA HART®
- Robust wet and dry-side design
- Integrated remote proof-testing
- SMART diagnostics
- SIL 2 certified
- Very low DU (undetected failures)

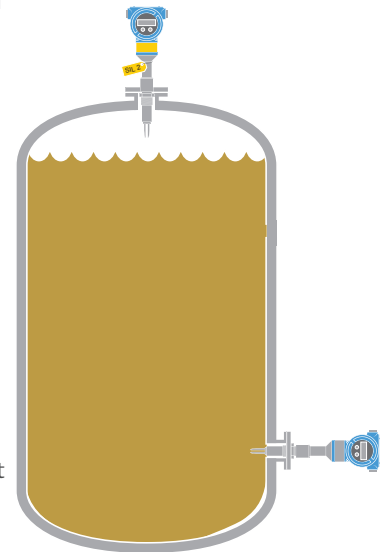## CHALLENGES IN OVERFILL AND HI-LEVEL ALARM APPLICATIONS

Overfill and hi-level alarm applications demand highly reliable level technology, since a failure could pose a severe safety risk. Long periods of time often pass beween devices being actuated, so plants must ensure devices are regularly inspected and tested to verify functionality and ensure stringent safety regulations are met.

THE ADVANTAGES OF VIBRATING FORK SWITCH TECHNOLOGY

Simple to install and reliable by design, with operation virtually unaffected by flow, turbulence, bubbles, foam, vibration and changing density, vibrating fork switches are a popular choice for detecting dry/wet conditions in critical applications. Modern devices incorporate continuous self-check functionality and testing capabilities, setting them apart from mechanical instrumentation.

ROSEMOUNT 2140 ADVANTAGES

- Quick and easy integration into existing systems with HART communication. No additional point to point wiring required
- Robust dual compartment housing gives second layer of protection from the process
- The SIL 2 certified Rosemount 2140:SIS has the lowest undetected safety failure rate of any vibrating fork switch available today, offering highest level of safety in its class
- Powerful SMART diagnostics continually check device health, allowing plants to schedule predictive maintenance around pre-planned shutdowns
- Unique fully integrated partial proof-testing functionality makes testing easier and safer
  - Perform test for all alarm points from your control room, possible to multidrop
  - No need to access device: device remains in situ, workers kept out of hazardous areas
  - Very short test time: process interrupted for minutes only
  - No additional wiring or switch box required in control panel, reducing system complexity
  - Extend time interval between full proof-tests
  - Significant operational and maintenance savings

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For further information please visit
Emerson.com/Rosemount2140

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