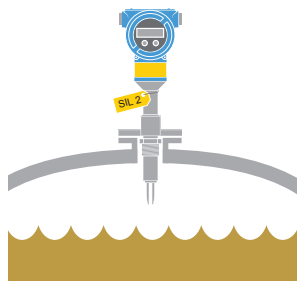# Rosemount 2140 Level Detector - Vibrating Fork

Safe, Reliable, Easy to Use HART Level Detection

It's Safe

Rapid and efficient proof-testing with minimal process interruption saves time and cost.

- Highest level of confidence in safety critical applications
- Remote proof test in process, no need to climb tanks or spend time in hazardous areas
- Ensure accurate switching with fast-drip forks and selectable liquid density

It's Smart

Enhanced and Smart Diagnostics continuously monitor device health.

- Enhanced process insight with HART® functionality
- Early alerts for build-up, weak power supply, or abnormal process conditions with Smart Diagnostics Suite
- Media Learn optimizes performance even if media properties are unknown

It's Easy to Use

Get valuable insight with an easy-to-use device

- Remote functionality allows access to device from the control room
- User-friendly interface for intuitive setup and operation
- Unique sand switch setting detects sediment build-up in your vessel

The world's only wired HART Vibrating Fork Level Detector, the Rosemount 2140. Improving safety and increasing process availability.
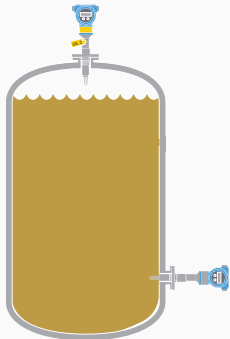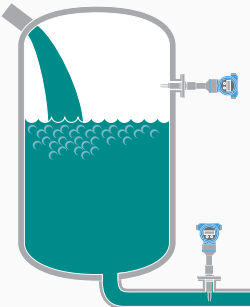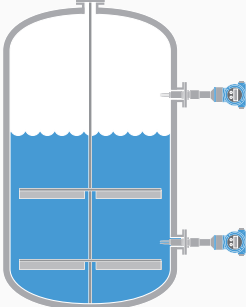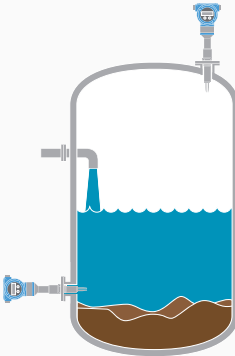
ARC estimates that

"global process industries lose 5% of annual production as the result of unscheduled downtime."

- **ARC Advisory Group,** Paula Hollywood

**For more information, visit
Emerson.com/Rosemount2140
or contact your local Emerson Sales Representative**

EMERSON™

Level Detection Applications

Overfill Prevention and Safety Critical Applications	Monitoring and Control	High and Low Level Alarms	Sand/Sediment Build-up
Unique partial proof test takes minutes, can be performed from the control room and reduces intervals between full tests for protection even in harsh conditions.	Optimized switching time and accuracy in small vessels or pipes, prevents potentially dangerous situations.	Detects maximum and minimum tank levels and alerts to emerging issues such as coating or corrosion before they become an issue.	Sediment build-up detection maximizes vessel/separator efficiency and reduces risk of equipment damage.

Specification

Output	Loop-powered 4-20mA HART
Pressure rating	1450 psig at 122 °F (100 barg at 50 °C)
Temperature rating	-40 to 302 °F (-40 to 150 °C) -94 to 500 °F (-70 to 260 °C)
Process connections	Threaded, flanged, Tri Clamp
Wetted materials	316 Stainless steel, ECTFE coated 316L stainless steel, corrosion-resistant nickel alloy C-276
Extended fork lengths	Up to 157.5 in. (4,000 mm)
Housing	Low copper aluminium, 316L stainless steel
Functional testing	Local and remote partial proof test
Hazardous area approvals	ATEX, IECEx, CSA, INMETRO, China, CCOE, Overfill protection (DIBt/TÜV WHG)
Safety Instrumented Systems	IEC 61508 certified to SIL 2

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