

Emerson™ offers the widest range of vibrating fork level switches and detectors around. From simple level switches to wired and *Wireless*HART® models, you can be sure we have the solution to meet the most challenging of point liquid level applications.

Rosemount™ 2100 Level Switches. There when you need them.

EMERSON™

Time proven technology with unique functionality

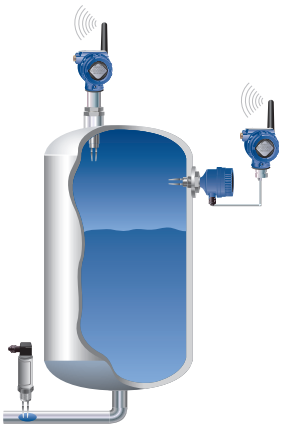
Get more out of your point level instrumentation with Emerson's range of vibrating fork level detectors.

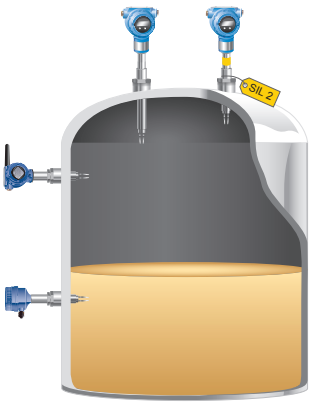
Providing reliable, low maintenance point level detection for alarm, monitoring and control, the enhanced, easy-to-use functionality of our vibrating fork detectors diminishes the challenges of skill gaps, loss of experience and reduced workforce.

All models feature a short fork fast-drip design for performance you can trust, and with quick delivery from a local source you can shrink cycle times and get your process running faster.

Wireless applications

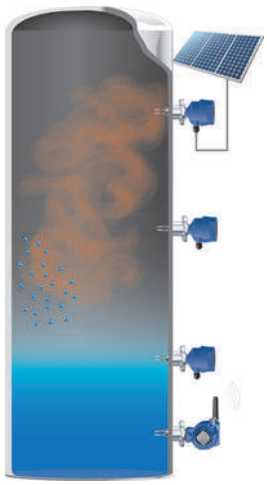
Extend the capability to automate vessels in hard to reach locations with the Rosemount 2160 which incorporates reliable wirelessHART technology.





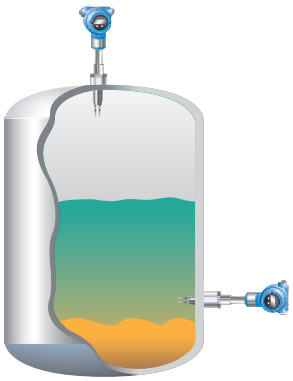
Low voltage applications

Automate tanks where power is limited. The Rosemount 2120 with relay output can be run from a 12V supply making it compatible with solar and battery powered systems.



Safety and overfill applications

Take overfill prevention to next level with the most reliable point level detector in its class. Further enhancing safety, proof-testing may be performed from the control room.

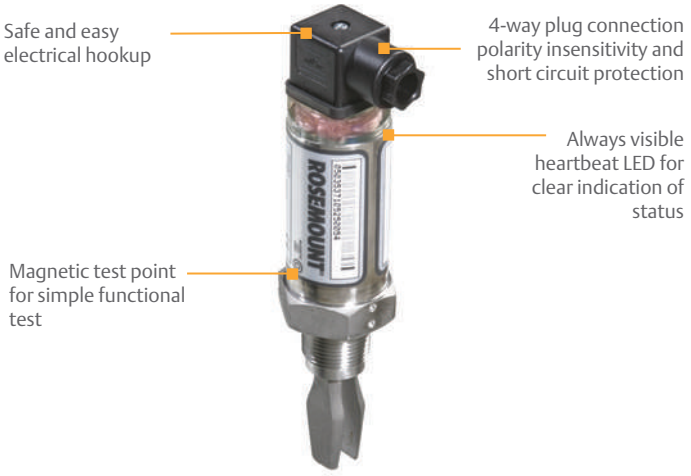


Sand and sediment detection

Detect sediment build-up in your vessel with the Rosemount 2140's unique sand switch functionality and ensure your process is always running at maximum capacity and efficiency.

Rosemount 2110 Compact

- Rugged stainless steel body and fork, the ideal choice for OEM applications
- Compact, lightweight design, perfect for small vessel or pipe installations

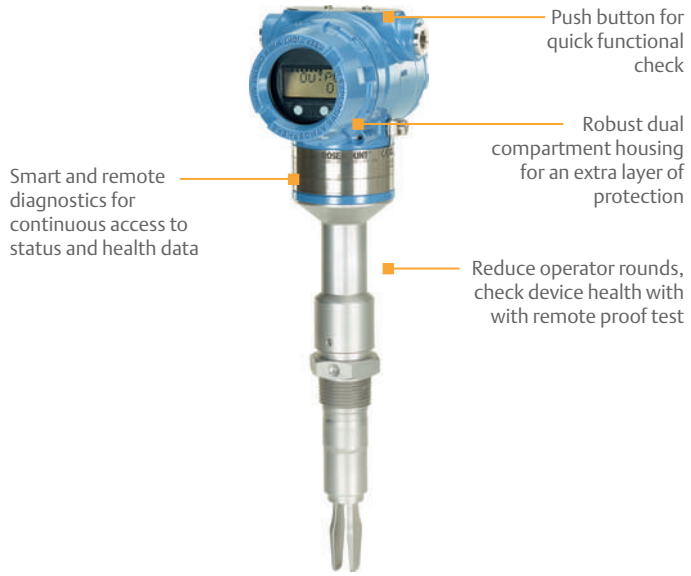


INDUSTRY EXPERTISE

OEM: Quick, easy and safe to install: ideal pump control or dry run prevention solution for high volume fast-fit applications
Hygienic: Simple, reliable and cost effective automation of sanitary processes

Rosemount 2140 Wired HART

- The world's first wired HART vibrating fork level detector
- Simple to install into existing HART loops with no additional wiring
- Plan preventative maintenance with best ever insight into fork health from the control room



INDUSTRY EXPERTISE

Chemical and refining: Predictive maintenance and remote functionality reduces operator rounds. Advanced functionality advises on media characteristics.
Oil and gas: Prevent unplanned shutdowns from sand-build up.
Implement predictive maintenance and free up operators' time.

Rosemount 2120 Standard

- The Rosemount 2120 is ideal for almost all liquid applications
- Wide choice of materials, process connections and switch outputs to suit your application

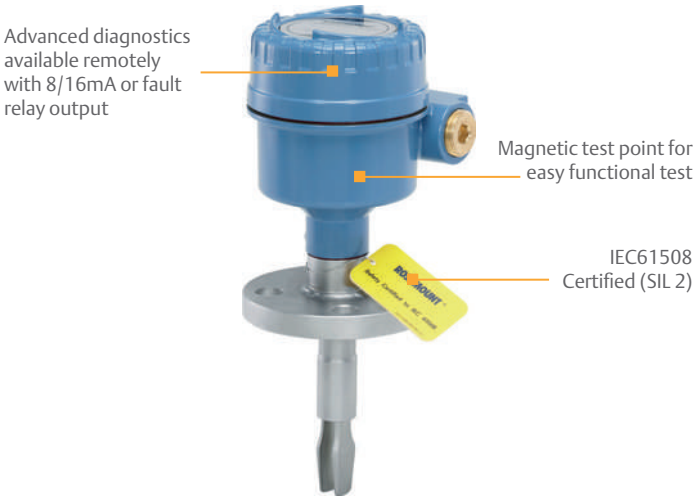


INDUSTRY EXPERTISE

Food and beverage: Achieve compliance with stringent hygienic standards.
Oil and gas: Optimize ROI with quick and easy to install automation, even on sites where power is limited.

Rosemount 2130 Enhanced Performance

- The flexibility of Rosemount 2120 with extended capability for challenging process conditions
- For use in liquids with temperatures ranging from -94 °F to +50°F (-70 to + 260 °C).
- Advanced instrument health/self-checking diagnostics

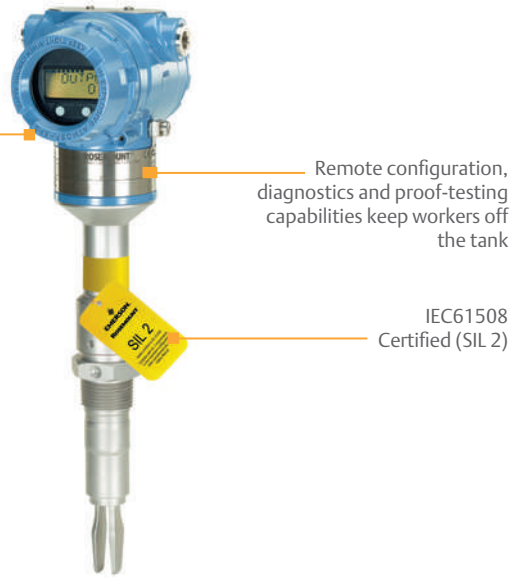


INDUSTRY EXPERTISE

Chemical and refining: Flexible cost-effective monitoring and control in challenging conditions. Meet international hazardous area and safety regulations.

Rosemount 2140:SIS Wired HART

- Dedicated model for functional safety and critical overfill applications
- Superior diagnostics coverage and industry-leading low dangerous undetected failure rate of 13 (FIT)
- Superior reliability in functional safety applications: SFF up to 97%



INDUSTRY EXPERTISE

Chemical and refining: Robust dual compartment construction suits the most challenging overfill prevention process conditions.
Remote proof-testing from control room: safety and process uptime maximized.

Rosemount 2160 *Wireless*HART®

- World's first *Wireless*HART liquid level detector for reliable level monitoring and control
- Wireless capabilities extend the full benefits of Plantweb to previously inaccessible locations
- Install and commission in minutes, remote configuration helps minimize time on tank



INDUSTRY EXPERTISE

Oil and gas: Extend your reach to keep processes running even in the most remote locations.

Rosemount 2100 Series Selection Guide

		2110	2120	2130	2140	2140 :SIS	2160
Certification	Explosion proof certification	-	+	+	+	+	-
	Intrinsically safe	-	+	+	+	+	+
	General area use	+	+	+	+	+	+
	Overfill protection (DIBt/WHG)	+	+	+	+	+	+
	IEC61508 certified (SIL2)	-	+	+	-	+	-
	Hygienic certification (3A and EHEDG)	+	+	-	-	-	-
Output	Direct load switching (ac or dc)	+	+	+	-	-	-
	Intrinsically safe 8/16 mA output	-	+	+	+	+	+
	DPDT relay output	-	+	+	-	-	-
	DPDT relay output (12V supply)	-	+	-	-	-	-
	PNP for PLCs	+	+	+	-	-	-
	Intrinsically safe NAMUR	-	+	+	-	-	-
	Fault relay	-	-	+	-	-	-
	HART	-	-	-	+	+	+
Diagnostics	Basic self-check/heartbeat LED	+	+	+	-	-	-
	Advanced and remote health/self-check diagnostics	-	-	+	+	+	+
	Smart diagnostics	-	-	-	+	+	-
Test function	Functional test	+	+	+	+	+	-
	Remote partial proof-test	-	-	-	+	+	-
Housing	Plastic	-	+	-	-	-	-
	Aluminum	-	+	+	+	+	+
	Stainless steel	+	+	+	+	+	-
Local user interface	Local display	-	-	-	+	+	+
	Local operator interface	-	-	-	+	+	-
Wetted material	316L Stainless steel	+	+	+	+	+	+
	ECTFE copolymer coated 316L SST	-	+	+	+	+	+
	Corrosion resistant nickel alloy C	-	+	+	+	+	+
Process temperature	-40 to 302 °F (-40 to +150 °C)	+	+	-	+	+	+
	-94 to 500 °F (-70 to +260 °C)	-	-	+	+	+	+
Process pressure	1450 psig at 122 °F (100 barg at 50 °C)	+	+	+	+	+	+
IP Rating	IP66/67	+	-	-	-	-	-
	IP66/67 to Type 4X	-	+	+	+	+	+
Electrical connection	Plug	+	-	-	-	-	-
	Terminal block	-	+	+	+	+	+
	Wireless	-	+*	+*	+*	+*	+
Connections	Threaded	+	+	+	+	+	+
	Tri-Clamp	+	+	+	+	+	+
	Flanged	-	+	+	+	+	+
Extended lengths available		-	+	+	+	+	+

NOTE: * When used in conjunction with Rosemount 702 Wireless discrete transmitter.

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