Emerson™ invented radar level measurement and has continued to push the boundaries for 40 years. Now, the next big thing is here: 2-wire FMCW radar level transmitters.

With the release of our 5th generation FMCW radar, you get a transmitter that is simpler to use, more accurate and truly reliable.

The Rosemount™ 5408. The Best There Is.

EMERSON

Technology to Redefine Reliability

A constant stream of radar waves makes the Rosemount 5408 Radar Level Transmitter 30x more sensitive.

Using game-changing 2-wire Frequency Modulated Continuous Wave (FMCW) technology for a continuous measurement, the Rosemount 5408 gives you a radar that is 30 times more sensitive than traditional pulsed 2-wire non-contacting radars.

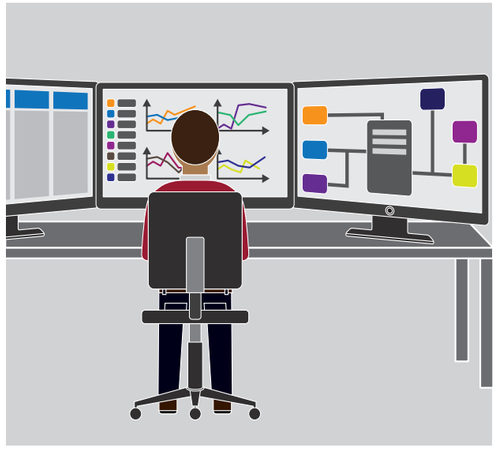
The result is a maximized signal strength producing a more robust and reliable measurement with a better ability to manage process conditions that only give weak echoes - such as foam, turbulence and condensation. Near zone measurement becomes clearer and the device is more able to discern the surface from nearby obstacles.

Have you ever...?

...experienced poor loop power?

When you have multiple devices on the same loop, insufficient power can be a big problem. The Rosemount 5408 gives reliable performance even if loop power is compromised, because of its low energy requirements coupled with diagnostics to ensure you don't run out of power.

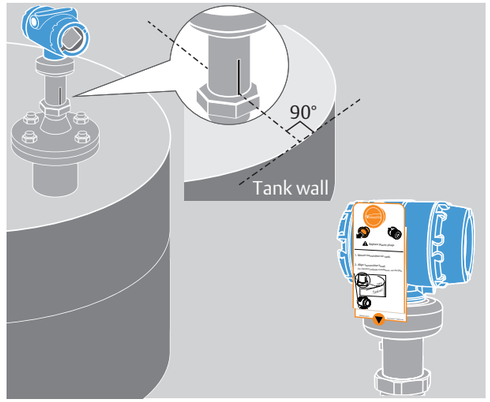
- Energy efficient unique radar chip with only 12 Volt lift off
- Embedded power reserve keeps device self-powered for up to 2 seconds making it immune to intermittent power losses



...had problems with your radar device locking onto an incorrect level?

Incorrect readings are a problem if your radar device recognises the wrong level. The Rosemount 5408 provides superior tracking capabilities with greater resolution, stronger echo and a measurement supervision function to prevent incorrect readings.

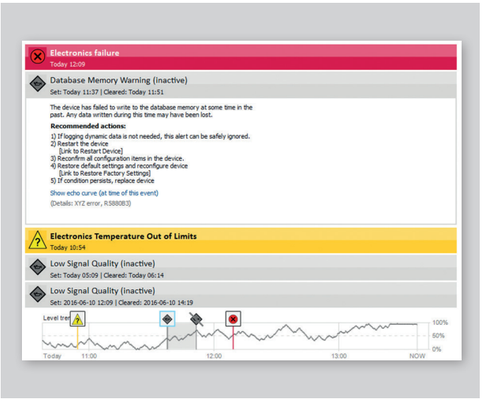
Have you ever...?



... had a device installed incorrectly?

The Rosemount 5408 was developed using Human Centered Design, resulting in a device that is easy to configure, install, and operate for anyone.

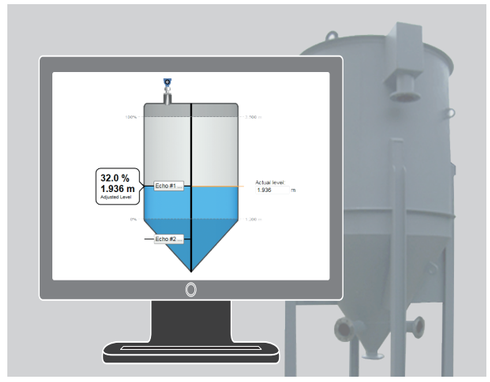
- Intuitive setup with dynamic and informative graphics to aid inexperienced users
- Pictorial user instructions where and when you need them



... wondered what happened in your process at a certain time?

The Rosemount 5408 provides a built-in historian that allows you to go back 7 days to see what has happened during a specific event, providing troubleshooting data and process insights.

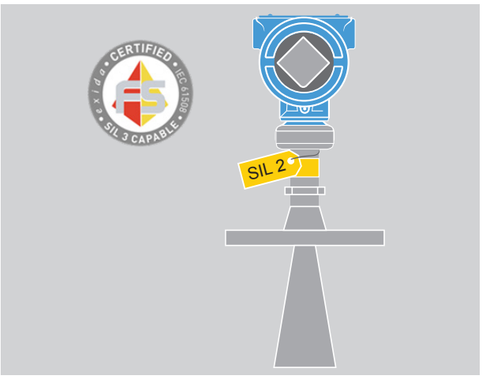
- 7 days of stored data enables analysis of measurements, alerts and echo profiles
- View echo curve from the time of the event



... struggled to understand and configure your radar device?

The Rosemount 5408 is easy to integrate into your system and intuitive to use. The new FDI package solution allows you to do both basic and advanced configuration without proprietary standalone software.

- Rosemount Radar Master Plus has an intuitive setup with dynamic and informative graphics to aid inexperienced users
- All alerts follow the NE 107 standard



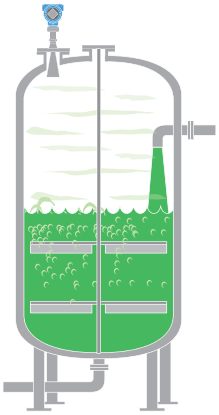
... worried about safety?

The safety features of the Rosemount 5408 help you to reduce the cost of risk, increase efficiency and protect your staff and the environment.

- Safety certified to IEC 61508 for SIL2 systems with SIL3 capability
- Remote proof testing with transmitter in process, without interrupting tank levels
- Early alerts for antenna build-up, weak power supply, or abnormal surface conditions

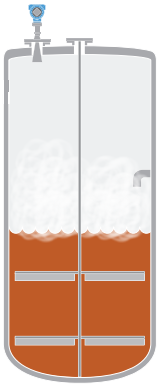
Non-Contacting Continuous Level For Monitoring, Control Or Safety

Reactors



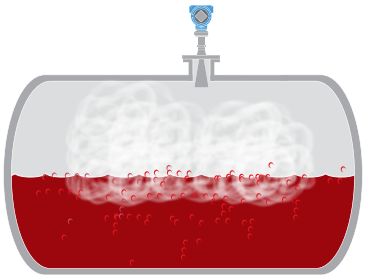
Challenging applications, including reactors with varying process conditions, turbulence and high temperatures and pressures.

Mixers, blenders



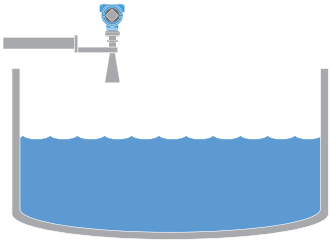
Suitable for any fluid and unaffected by property changes, vapors and turbulence.

Aggressive, coating or viscous media



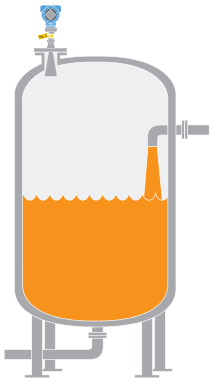
Accurate and reliable level measurement on storage or buffer tanks where there is foam, turbulence, condensation and low DC media.

Open atmospheric applications



Short range measurement for sumps and flumes and long ranges including dams.

Safety applications



Protection even in turbulent or harsh process conditions and those with rapid level changes. Unique proof testing functionality.

Still pipe installations

Measurement in still pipes commonly found in turbulent low dielectric fluids or where multiple internal obstacles are present.

Specification

Communication protocol	4-20mA HART ®
Accuracy	± 0.08 in (±2 mm)
Max measuring range	131 ft (40 m)
Min. DC	No minimum
Pressure rating	Full vacuum to 1450 psi (100 bar)
Temperature rating	-76 to +482 °F (-60 to +250 °C)
Power supply	12-42.4V dc (12-30V dc in Intrinsically Safe installations)
Hazardous area approvals	ATEX, IECEx, FM, CSA
Safety Instrumented Systems	IEC 61508 certified to SIL 2

Emerson Automation Solutions

6021 Innovation Blvd
Shakopee, MN 55379 USA
+1 800 999 9307 or +1 952 906 8888
+1 952 949 7001
RFQ.RMD-RCC@Emerson.com

Emerson.com
Facebook.com/Rosemount
LinkedIn.com/company/Emerson-Automation-Solutions
Twitter.com/Rosemount_News

00807-0100-4408 Rev. BA 4/17

EMERSON