

ROSEMOUNT™ 5408 LEVEL TRANSMITTER

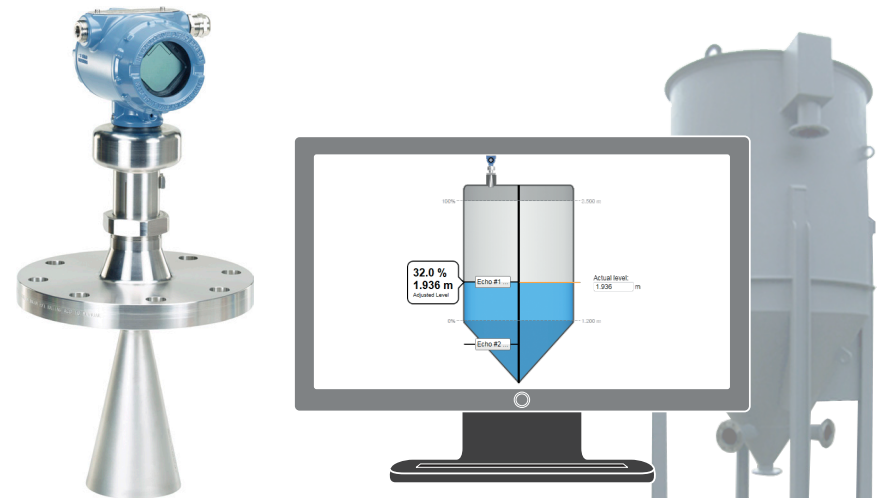
Non-contacting radar for seamless operation
and unrivalled reliability in challenging applications

Rosemount 5408 Level Transmitter

Following 50 years of inventing and redefining radar level measurement, we have taken a giant leap.

With the Rosemount 5408 Level Transmitter, simplification is key: One device is suitable for both liquids and solids applications. From intuitive setup wizards and actionable alerts via a suite of powerful onboard diagnostics, to the unique PTFE seal without wetted o-rings, Rosemount 5408 is engineered for ease-of-use.

Rosemount 5408 offers unrivalled reliability and is perfect for seamless operation in the most challenging process level measurement applications.



Technology to redefine reliability

- FMCW technology provides significantly better signal-to-noise ratio than traditional 2-wire NCR technology, no matter how challenging the application
- Unique energy efficient radar chip with only 12 Volt lift off
- Immune to intermittent power losses
- Available with a 10-year limited warranty for complete peace of mind

Engineered for ease-of-use

- Simple specification: One device for liquids and solids measurement with no minimum dielectric constant constraints
- Unique design eliminates O-ring material selection
- Intuitive setup with graphical instructions
- Proof-test wizards offer step-by-step guidance with dynamic visualization and printable reports for convenient compliance

Clear insight in to device health

- Onboard Smart Diagnostics Suite continuously monitors transmitter health without process interruption
- Signal Quality Metrics alert to emerging issues, enabling preventative maintenance to be scheduled
- Smart Meter Verification monitors entire transmitter health, providing a simple pass/fail report

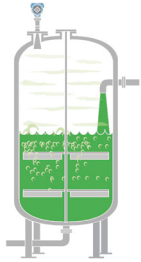
Dedicated to safety

- Early alerts for antenna build-up, weak power supply or abnormal surface conditions
- Seven days of stored data enables analysis of measurements, alerts and echo profiles
- Unique remote proof-testing with transmitter in process, without interrupting tank levels

ROSEMOUNT 5408 LEVEL TRANSMITTER

Non-contacting continuous level measurement of liquids and solids for monitoring, control or safety

Reactors, mixers and blenders



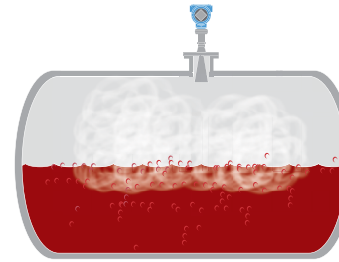
Challenging applications with varying process conditions, turbulence and high temperatures and pressures.

Solids measurement



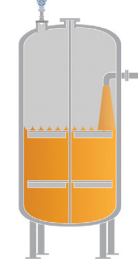
Unique solids algorithm enable reliable measurement on uneven surfaces with low DC.

Aggressive, coating or viscous media



Accurate and reliable level measurement in tanks with foam, turbulence, condensation and low DC media.

Hygienic applications



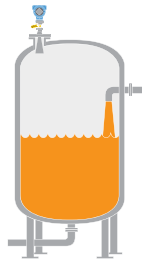
Process seal antenna with tri-clamp connection is perfect to use in hygienic applications.

Still pipe installations



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

Safety applications



Reliable overfill prevention in turbulent or harsh process conditions and those with rapid level changes. Unique onboard remote proof-testing functionality.

Specifications	
Communication protocol	Loop-powered 4–20mA HART®; FOUNDATION™ Fieldbus
Ultra accuracy	±0.04 in (±1 mm)
Standard accuracy	±0.08 in (±2 mm)
Max measuring range	492 ft (150 m), 82 ft (25 m) for Rosemount 5408:SIS in Safety mode
Min. DC	No minimum
Pressure rating	-15 to 1450 psi(-1 to 100 bar)
Temperature rating	-76 to +482 °F (-60 to +250 °C)
Power Supply	Loop-powered 4–20 mA HART: 12–42.4 V dc (12–30V dc in Intrinsically Safe installations) FOUNDATION Fieldbus: 9–32V dc (9–30 V dc in Intrinsically Safe installations and 9–17.5 V dc for FISCO)
Hazardous area approvals	ATEX, IECEx, USA, Canadian
Safety Instrumented systems	IEC 61508 certified to SIL 2
Approvals and certificates	3-A, CRN, WHG
Antennas	Cone, process seal, parabolic

For more information, visit
[Emerson.com/Rosemount5408](https://www.emerson.com/Rosemount5408)

The Emerson logo is a trademark and service mark of Emerson Electric Co.
 Rosemount is a registered trademark of one of the Emerson family of companies.
 All other marks are the property of their respective owners.
 © 2024 Emerson Electric Co. All rights reserved.

00807-1100-4408 Rev BB

ROSEMOUNT™


EMERSON™