

EMERSON LEVEL TECHNOLOGIES

NEVER SETTLE FOR LESS

Emerson has a history of innovation in level technologies, and we continue this tradition with a focus on quality and reliability that is unparalleled in the industry.

When you install an Emerson level product, you can set it and forget it – with peace of mind that your operation will run smoothly and safely.

Our comprehensive portfolio can provide a wide variety of measurement points and process mediums, with the quality and precision you require to keep your process running safely and smoothly

Why settle for anything less?



Emerson has a team of Level application specialists to help determine the best solution for your application.

Contact your Emerson sales representative to get started or contact us at local.events@emerson.com





EMERSON LEVEL TECHNOLOGY PRODUCTS

Guided Wave Radar

Guided Wave Radar provides an accurate and reliable measurement for both level and interface and can be used in a wide variety of applications.

Features include:

- Direct Switch Technology
- Dynamic Vapor Compensation for steam
- Signal Quality Metrics
- Projection between Signal Quality Metrics and Coax Probe for challenging applications
- Measurement Validation Reflector



Rosemount™ 3308 and 5300 Level Transmitter - Guided Wave Radar

Magnetic Level and Chambers

Magnetic level technology provides convenient tank side level indication visible from 100 feet away, making it easy to know with a quick glance how much product is in the vessel. Magnetic Level Indicators may be used as a low maintenance alternative to sight glasses.

In addition, bypass chambers can be specified for Rosemount Guided Wave Radar Transmitters. These chambers are designed to work flawlessly with the Guided Wave radar as a stand-alone solution or paired with a Magnetic Level Indicator as a side-by-side complete point solution.



Magtech™ MLT Level Transmitter and Rosemount 9935 Level Bypass Chamber

Non-contacting Radar

Non-contacting radar provides highly accurate and reliable measurement that is immune to most process conditions.

Features include:

- Up to 7-day Echo, Plot, historian or alerts
- Smart Echo Supervision™ signal processing
- Smart Meter Verification
- Signal Quality Metrics, Smart Echo Level Test
- Bluetooth®
- Up to 10-year warranty



Rosemount 1208, 1408, 3408, 5408 Level Transmitter - Non-Contacting Radar

Point Level

Level switches measure point level within a vessel and may be installed for primary monitoring or control, or alongside other level technology providing redundancy and reducing risk.

Features include:

- Solutions for liquids & solid applications
- Magnetic test point
- User-adjustable delay
- Only WirelessHART® switch
- Remote partial proof testing
- Frequency profiling for density changes & sediment detection



Rosemount 2511, 2501, 2120/2130 Level Switch and Rosemount 2160, 2140 Level Detector

Differential Pressure (DP) Level

Differential Pressure Level technology uses a pressure reading and specific gravity to output level. This technology is unaffected by vapor space changes, surface conditions or internal tank equipment.

Connect to virtually any process with a comprehensive offering of seals, fill fluids, and materials.



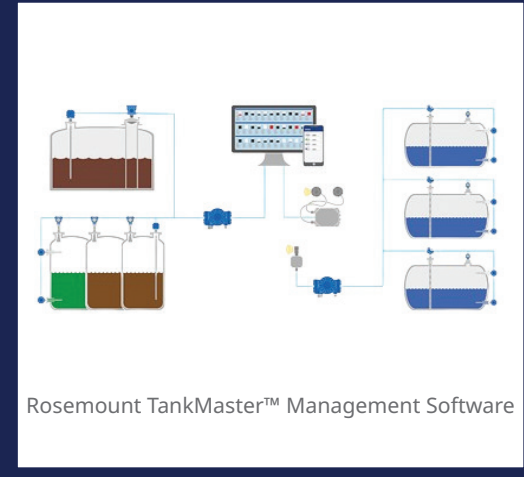
Rosemount 2051L, 3051L, 3051SAL Level Transmitters and Rosemount 3051S Electronic Remote Sensor (ERS)™ System

Tank Gauging and Monitoring Systems

From large to small tanks that fit your site's operations, safety, and inventory control requirements.

Features include:

- Accurate level and temperature measurement
- Volumetric calculations
- Inventory levels
- Overfill alarms
- HMI's with mobile remote capabilities
- Safer operations by keeping personnel off of tank tops



Rosemount TankMaster™ Management Software

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Product Selection Guide

Technology Overview

The Product Selection Guide can help you with selecting the best solution for your application based on a few key metrics.

		Guided Wave Radar	Non-Contacting Radar	DP Level	Level Switch
		Continuous			Point
Measurement	Level	Good	Good	Good	Good
	Interface (liquid/liquid)	Good	Not recommended	Application dependent	Application dependent
	Volume	Good	Good	Good	Not recommended
	Density and mass	Not recommended	Good	Good	Not recommended
	Open channel flow	Application dependent	Good	Not recommended	Not recommended
Process Medium Characteristics	Changing density	Good	Good	Application dependent	Good
	Changing dielectric	Good	Good	Good	Good
	Pressure and temperature changes	Good	Good	Application dependent	Good
	Condensing vapors	Good	Good	Good	Good
	Bubbling/boiling surfaces	Good	Good	Good	Good
	Foam	Application dependent	Application dependent	Good	Application dependent
	Coating or crystallizing liquids	Application dependent	Good	Application dependent	Application dependent
	Viscous liquids	Application dependent	Good	Good	Application dependent
	Solids, granules, powders	Good	Good	Not recommended	Good
Sludges and slurries	Application dependent	Good	Application dependent	Good	
Tank Environment Considerations	Top-down connection	Good	Good	Not recommended	Good
	Bottom or side connections direct to vessel	Application dependent	Not recommended	Good	Good
	Stilling wells or chamber applications	Good	Good	Good	Good
	Mounting close to tank wall/disturbing object	Good	Good	Good	Good
	High turbulence	Good	Application dependent	Good	Good
	Long and narrow mounting nozzles	Application dependent	Application dependent	Good	Good
	Angled or slanted surface	Good	Good	Good	Good
	High empty and fill rates	Good	Good	Good	Good
	Internal obstructions	Application dependent	Good	Good	Good
	Agitation	Application dependent	Good	Good	Good
	Non-metallic vessel	Application dependent	Good	Good	Good
	Nozzle in center of tank	Good	Application dependent	Good	Good
	Compatible where valves or isolation are required	Not recommended	Good	Good	Not recommended

■ - Good
 ■ - Application dependent
 ■ - Not recommended
 | Rating of each technology based on its capability of handling each challenge.

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For more information, visit www.emerson.com/en-us/automation/measurement-instrumentation/level

