

Rosemount™ Wireless Level Measurement Portfolio



**Reduce costs, gain visibility into your processes
and access data easily and securely**



Accurate and easy-to-use wireless level instrumentation for remote and hard-to-reach locations

In existing plants or factories, wireless level measurement instruments are a cost-efficient solution for automating measurements in hard-to-reach locations without the additional costs of wiring, while also providing flexibility to add or move measurement points easily.

In new plants, wireless level measurement helps manufacturers reduce CAPEX by minimizing the number of measuring points, while still allowing new points to be added in the future without costly infrastructure changes.

We have improved safety with reliable wireless level instrumentation, while increasing operational efficiency and saving costs.

- Production Coordinator, Sherwin Williams



Wireless level instruments were chosen because the total installation cost was considerably less and installation took half the time.

- Oil Field Company, USA



Continuous level measurement tracking and remote data transmission helped obtain real-time data in the control room without requiring operators to perform manual rounds.

- Mining Plant, Chile





Rosemount wireless level measurement product offering includes a complete line of transmitters, switches and systems that will help you save costs, gain flexibility and visibility, and access data easily and securely.

Wireless Level Measurement Instruments



Rosemount 3408 Wireless Level Transmitter – Non-Contacting Radar

- **Easy-to-use** and broad compatibility with host systems
- **Reliable** 80GHz FMCW radar with small process fittings
- **Diagnostics Package** with Smart Meter Verification, Signal Quality Metrics and Built-in data Historian
- **Radar Antenna Options:** Process Seal, Lens and Atmospheric Temperature and Pressure (ATAP) Antennas

APPLICATIONS

- Liquids & Solids Storage Tanks
- Open-Air or Non-Pressurized Tanks
- Remote Applications



Rosemount 3308 Wireless Level Transmitter – Guided Wave Radar

- **Easy-to-use** with seamless integration
- **Performance:** High and Standard Performance Options Available
- **Diagnostics:** Signal Quality Metrics For Predictive Maintenance
- **Broad availability of probes:** Rigid / Segmented / Flexible single lead, Coaxial, PTFE coated probes

APPLICATIONS

- Level Interface Measurement
- Chamber Applications
- Remote Applications



Rosemount 3051SAL Wireless DP Level Transmitter

- **Mounting:** Direct, remote and balanced and tuned-systems
- **Tuned-Systems** can reduce temperature effects and improve response time

APPLICATIONS

- Injection flow rates
- Heat exchangers
- Filters for pumps, turbines and compressors



Rosemount 3051S Wireless Submersible Level Transmitter

- **Monitoring, diagnostic, and configuration access** thanks to extended range antenna capabilities in remote locations
- **Cable Length Customization:** Standard submersible cable lengths up to 500 ft (150 m) can be modified to specific length on site.

APPLICATIONS

- Ground Water/Well Level Monitoring
- Pond Level
- Dam Level



Rosemount 2160 Wireless Level Detector Switch

- **Ease of use** and seamless integration
- **Fast Drip Fork Design** gives quicker response time, especially with viscous liquids
- **Enhanced diagnostics** alert you before contamination, corrosion, or damage to wetted parts become a problem

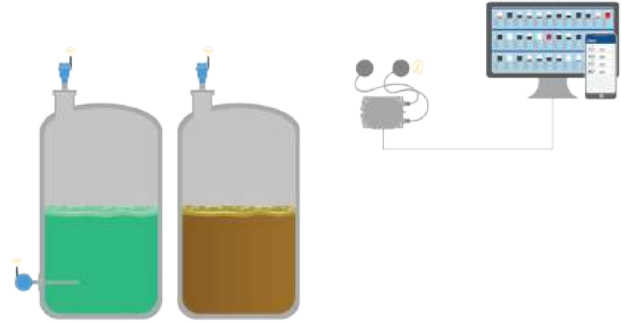
APPLICATIONS

- Liquid Applications
- High and low liquid level alarms and overflow prevention
- Pump protection in liquids applications



Tank Monitoring Applications

- Remote tanks for chemical and specialty chemical products
- Small assets such as additive tanks in oil and gas terminals
- Edible oils and biofuel inventory management



Wireless Tank Gauging Applications

- Tank terminals
- Refinery tank farms
- Pipeline breakout tanks

Emerson Wireless Accessories



Emerson Wireless 775 THUM™ Adapter

Make any HART device wireless with the Emerson Wireless 775 THUM Adapter, an adapter that retrofits onto existing 2-, 3- or 4-wire HART devices.

COMPATIBILITY WITH:

- Rosemount 5408 Non-Contacting Radar Level Transmitter
- Rosemount 5300 Non-Contacting Radar Transmitter
- Rosemount 5900 Radar Level Gauge
- Rosemount DP Level Transmitters



Emerson SmartPower™ Modules

COMPATIBILITY WITH:

- Rosemount 3408 Wireless Level Transmitter
- Rosemount 3308 Wireless Level Transmitter
- Rosemount 3051SAL DP Wireless Level Transmitter
- Rosemount 3051S Wireless Submersible Level Transmitter
- Rosemount 2160 Wireless Level Detector Switch



Wireless Gateways and Access Points

The Emerson Wireless Gateway enables communication between wireless devices and host applications, such as Rosemount TankMaster™. Each gateway manages its own unique wireless network.

SPECIFICATIONS:

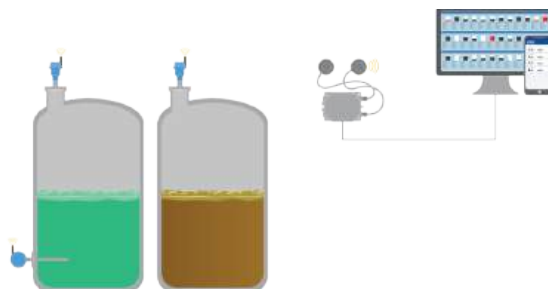
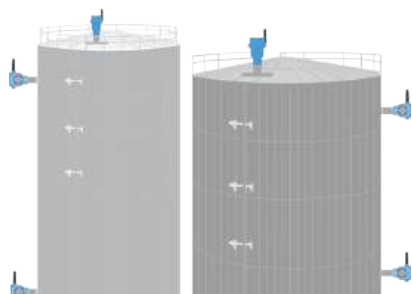
- Communication Protocol: WirelessHART, ISA100
- Network Capacity: Up to 400 WirelessHART devices (with 200 per 781S) or 200+ WirelessHART & 100 ISA100 devices

Rosemount Wireless Level Measurement Specifications

Specification and selection guide: Wireless Level Instruments

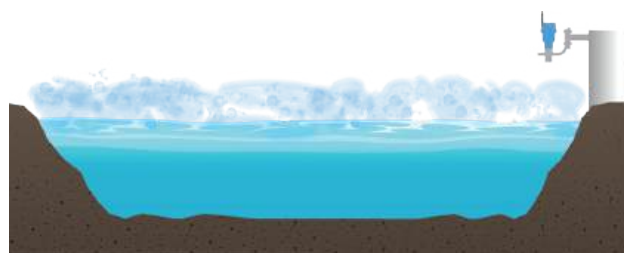
	Rosemount 3408 Wireless	Rosemount 3308	Rosemount 2160	Rosemount 3051SAL	Rosemount 3051S
Technology	Non-contacting radar	Guided Wave Radar	Vibrating Fork Switch	Differential Pressure	Submersible Pressure
Limit Pressure	-1 to 25 bar	-1 to 52 bar	Full vacuum to 100 bar	0,25 mbar to 689 bar	0 to 30 PSI (0 to 69 ft. H ₂ O [0 to 21 m. H ₂ O]) 0 to 150 PSI (0 to 346 ft. H ₂ O [0 to 105 m. H ₂ O])
Limit Temperature	-60 to 200 °C (-76 to 392 °F)	-40 to 150 °C (-40 to 302 °F)	-70 to 260 °C (-94 to 500 °F)	-105 to 410 °C (-157 to 770 °F) Based on fill fluid	-40° to 85 °C (-40 to 185 °F) for transmitter head -10° to 50 °C (14 to 122 °F) for submersible sensor (nonfreezing liquids)
Solids Measurement	Yes	No	No	No	No
Measurement Range	98 ft. (30 m)	55.8 ft.(17m)	Point level	Up to 10000psia (689,47 bar) Absolute	Selectable measurement ranges from: 0 to 30 psi (0 to 69 ft. H ₂ O); 0 to 150 psi (0 to 346 ft. H ₂ O)
Diagnostics	Smart Meter Verification, Historian and Signal Quality Metrics	Signal Quality Metrics	Sensor malfunction, Over temperature	No	No
Wireless Update Rate	4 sec. to 60 min., user selectable	4 sec. to 60 min., user selectable	1 sec. to 60 min., user selectable	1 sec. to 60 min., user selectable	4 sec. to 60 min., user selectable
Antenna Availability with Different Wireless Ranges	Long Range: 225m (750 ft) Extended Range: 800 m (1/2 mile) High-Gain Remote: 1 km (2/3 mile)	Long Range: 225m (750 ft) Extended Range: 800 m (1/2 mile) High-Gain Remote: 1 km (2/3 mile)	Long Range: 225m (750 ft) Extended Range: 800 m (1/2 mile) High-Gain Remote: 1 km (2/3 mile)	Long Range: 225m (750 ft) Extended Range: 800 m (1/2 mile) High-Gain Remote: 1 km (2/3 mile)	Long range 225m (750 ft), extended range 800 m (1/2 mile), remote (225 m) and high-gain remote 1 km (2/3 mile)
LCD Display	Local indication of output and diagnostic messages	Local indication of output and diagnostic messages	Local indication of output and diagnostic messages	Local indication of output and diagnostic messages	Local indication of output and diagnostic messages

Wireless Level Measurement Industry Applications



Chemical Terminals or Tanks

Wireless level measurement enables inventory management of chemicals, both solids and liquids, providing remote access to in a cost-effective manner. Easy scalability from a few tanks to tank monitoring to a full Wireless Tank Gauging system.



Plastic Chemical Totes and Tanks

Wireless non-contacting radar level transmitters can be installed in these tanks to monitor media levels without intrusion, helping plants manage inventory and ensuring uninterrupted production.

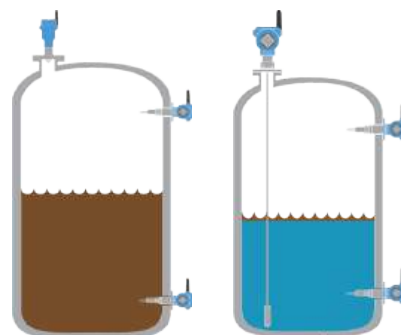
Open Ponds or Tailing Dams in Mines

Wireless level instrumentation enables mining plants to control evaporation rates and receive alerts for overfilling or low levels, enhancing safety and ensuring uninterrupted production.



Sump Pits in Oil & Gas Operations

Wireless level measurement instruments allow real-time level monitoring from control rooms, facilitating data-driven decisions while enhancing safety.



Intermediate Storage in Refineries

Wireless level measurement helps manage tank inventory from the control room, while helping maximize process efficiency and safety.

Rosemount Wireless Level Measurement will help you save costs, gain flexibility and visibility, and access data easily and securely.



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