

Level

Differential Pressure

Rosemount 3051S_L, 3051L, and 2051L DP Liquid Level Transmitters

- Reduce installed cost by 20%, improve performance by 30% and achieve better response time by 80% with Tuned-System™ Assemblies
- Optimize and quantify total system performance with QZ option
- Operate at higher temperatures and harder vacuums



Rosemount 1199 Seal DP Systems

- Connect to virtually any process with a comprehensive offering of process connections, fill fluids, direct mount or capillary connections, and materials
- Extend life and improve performance with back-up diaphragm pattern
- Protect your investment from installation or gasket damage with recessed diaphragm design



Guided Wave Radar (GWR)

Rosemount 5300 Series Superior Performance GWR Level and Interface Transmitter

- Handles even the most challenging applications reliably including process vessels, control and safety
- Microwave innovations allow use over longer ranges, with lower dielectrics and higher accuracy
- Enhanced configuration and diagnostic information through RadarMaster and EDDL-based user interface
- Probe end projection function provides reliable measurements during times of low signal strength



Rosemount 3300 Series Versatile GWR Level and Interface Transmitter

- Handles most liquid storage and monitoring applications
- First 2-wire level and interface transmitter with field proven reliability



Non-Contacting Radar

Rosemount 5400 Series Superior 2-wire Radar Level Transmitter

- Market leading signal software logic to handle dynamic tank environments
- High and low frequencies available for maximum application coverage
- Enhanced EDDL-based user interface provides visualization of configuration and diagnostic information
- Innovative design puts more power on the surface than any other 2-wire radar transmitter



Rosemount 5600 Series 4-wire Radar Level Transmitter

- Power of 4-wire provides maximum sensitivity and performance for solids, challenging reactors, rapid level changes and extreme process conditions
- Market leading signal processing capacity to handle challenging tank environments



Ultrasonic

Rosemount 3100 Series Ultrasonic Process Level Transmitters

- Reliable liquid level measurement up to 36 ft. (11 m)
- Top down non-contacting measurement minimizes maintenance costs
- Local operator interface or remote programming for fast and efficient commissioning
- Two on-board relays for control and/or alarm duties
- Inert wetted materials for corrosive liquids and vapors



Rosemount 3107 and 3108 Sealed Ultrasonic Level Transmitters

- Level measurement and pump control in sumps and wet wells up to 39 ft. (11 m) deep
- Open Channel Flow measurement in most flow structures
- Sealed NEMA type 6P (IP68) to survive flooding
- Sophisticated software eliminates false echoes



Vibrating Fork Switches

Rosemount 2160 WirelessHART™ Vibrating Fork Level Switch

- World's first WirelessHART liquid level switch ideal in locations previously inaccessible or too costly for wired devices
- Integral power module eliminates the need for any site wiring
- PlantWeb functionality with advanced diagnostics and PlantWeb alerts



Rosemount 2130 Extreme Temperature Vibrating Fork Level Switch

- -94 to 500 °F (-70 to 260 °C) extended operating temperature range
- Built-in diagnostics continuously monitor instrument health



Rosemount 2120 Standard Vibrating Fork Level Switch

- Choice of switch outputs includes intrinsically safe and relay
- DIBt/WHG Overfill protection certification
- Flanged, threaded and extended length options



Rosemount 2110 Compact Vibrating Fork Level Switch

- Designed to meet the requirements of the high volume OEM market
- Stainless Steel housing and wetted parts
- Fast fit plug and socket wiring connection



Chambers

Rosemount 9901 Chambers

- High quality chambers for external mounting of level measurement and control instrumentation on process vessels
- PED compliant design in accordance with ASME B31.3 or as option ASME B31.1
- Uses only certified and traceable materials and is manufactured using full penetration welds
- Hydro tested on completion, with a full range of NDT or customer inspection options available



Table Level-1. Level Product Selection Chart

Application and Installation Considerations		●	Recommended			
		●	May be suitable			
		X	Not recommended			
		Continuous Level			Point Level	
		Pressure	Radar	Guided Wave Radar	Ultra-sonic	Vibrating Fork
Level		●	●	●	●	●
Interface (Liquid/Liquid)		●	X	●	X	X
Volume		●	●	●	●	X
Density		●	X	X	X	X
Mass		●	X	X	X	X
Open Channel Flow		X	●	●	●	X
Process Medium Characteristics						
Changing Density		●	●	●	●	●
Changing Dielectric		●	●	● ¹	●	●
Wide pH Variations		●	●	●	●	●
Pressure and Temperature Changes		●	●	●	●	●
Condensing Vapors		●	●	●	●	●
Bubbling / Boiling Surfaces		●	●	●	●	●
Foam		●	●	●	●	●
Liquid with Dielectric < 1.9		●	●	●	●	●
Coating Liquids		●	●	●	●	●
Viscous Liquids		●	●	●	●	●
Crystallizing Liquids		●	●	●	●	●
Solids, Granules, Powders		X	●	●	X	X
Sludge and Slurries		●	●	●	●	●
Tank Environment Considerations						
Top Down Connection		X	●	●	●	●
Bottom or Side Connections, Direct to Vessel		●	X	X	X	●
Stilling Wells or Bypass Connections		●	●	●	●	●
Device Will Be Close to Tank Wall / Disturbance Object		●	●	●	●	●
High Turbulence		●	●	●	X	●
Long and Narrow Mounting Nozzles		●	●	●	X	●
Angled or Slanted Surface		●	●	●	●	X
High Empty and Fill Rates		●	●	●	●	●
Internal Obstructions		●	●	●	●	●
Agitation		●	●	●	●	●
Non-metallic Vessel		●	●	●	●	●
Nozzle in Center of Tank		●	X	●	X	●
Valves or Isolation Required		●	●	● ²	X	● ²

(1) For overall level applications a changing dielectric has no effect on the accuracy; for interface applications a changing dielectric in top fluid will degrade accuracy.

(2) Mount instrument in external Rosemount 9901 Chamber.