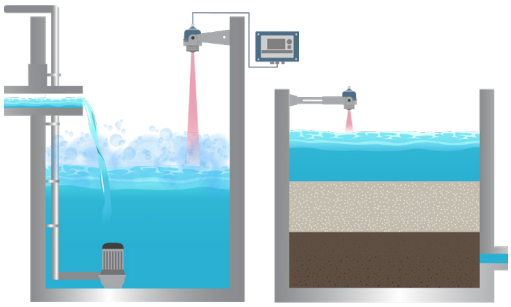
Rosemount 1208 Level and Flow Transmitter Series

Applications in process industry utilities and water and wastewater industries

Introduction

Rosemount™ 1208 Level and Flow Transmitters are easy-to-use and cost-effective sensors. They are suitable for simple applications in utilities such as storage and intermediate tanks (chemical tanks, sludge tanks, additive tanks, IBC), sumps, ponds, open channels, dams, silos or open containers. With several communication options and a broad range of mounting and connectivity accessories, the Rosemount 1208 series can easily be installed and integrated in any industrial environment.

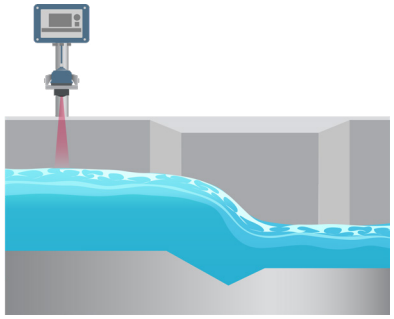
Water & Wastewater Levels



- **Application:** Storage or processing of water and wastewater is carried out in various applications such as filter beds, basins, pump stations, rivers and dams, etc.
- **Challenges:** Flooding and challenging outdoor conditions such as temperature changes, wind and humidity.
- The Rosemount 1208 Radar Level and Flow Transmitter ensures continuous control and monitoring of water levels, and is unaffected by process conditions. With a fully encapsulated UV resistant PVDF design, it can withstand flooding and solar radiation.

Open Channel Water & Wastewater Flows

- **Application:** Inlet and outlet of water and wastewater flow from a process plant.
- **Challenges:** Flooding and outdoor conditions such as temperature changes, wind, and humidity.
- The Rosemount 1208 Radar Level and Flow Transmitter ensures accurate and reliable monitoring of water flow levels, and remains unaffected by any ambient or process conitions. With built-in formulas and strapping tables, it is easy to get up and running with flow proportional output.



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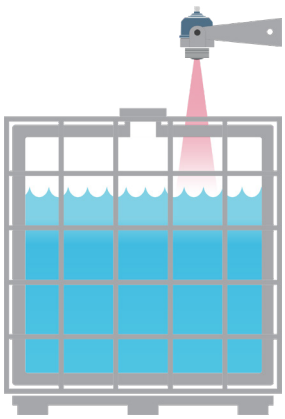
Level and Flow Measurement in Utilities

IBC Containers or Plastic Tanks



- **Application:** Plastic tanks or IBC containers can be used to store chemical additives or handle and transport disposable waste.
- **Challenges:** Corrosive media, No tank connection.
- The Rosemount 1208 Level and Flow Transmitter provides an accurate control of inventory to ensure the process is running smoothly. Radar waves easily penetrate the plastic roof and the sensor is not in contact with the media so there is no need for a tank connection. The sensor has a compact form and narrow the 80 GHz FMCW beam angle makes it suitable for installation in space-limited applications.

Storage and intermediate tanks

- **Application:** Storage tanks can be used for different applications in utilities and water and wastewater plants, such as the storage of water, sludge, chemical substances, or even finished food products.
- **Challenges:** Corrosive media, condensation, foam, build up.
- The Rosemount 1208 Level and Flow Transmitter design is corrosion resistant and drinking water and food-grade approved. It also features a narrow 80 GHz FMCW beam angle to avoid internal obstructions, and no dead zone to increase tank utilization.

Rosemount 1208 Level and Flow Transmitter Series Specifications	
Measuring range	49.21 ft. (15m)
Accuracy	±0.08 in (± 2 mm)
Pressure Rating	-14.5 to 43.5 psi (-1 to 3 bar)
Output	IO-Link, 4-20 mA, switch (PnP/NpN) – Available for Rosemount 1208A 4-20 mA HART (pending) – Available for Rosemount 1208C
Temperature rating	-40 to 176 ºF (-40 to 80 ºC)
Wetted materials and housing	PVDF
Approvals	Food grade, Drinking water Ex zone 2 (pending) – Available for Rosemount 1208C
Mounting accessories	Mounting brackets (short and long options), Flanges (Stainless Steel and plastic options, available in different sizes)
Other accessories	IO-Link, M12 cables

*See product data sheet for full specifications

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