

Reliable & effortless measurement in demanding applications

Rosemount 3300 Series

Guided Wave Radar Level and Interface Transmitter

The Rosemount 3300 provides reliable and cost effective level measurements in a wide range of [applications](#). Guided Wave Radar technology combined with advanced signal processing and sensitivity enables the Rosemount 3300 Series to deliver both level and interface measurement data from the same transmitter. The 3300 series is now available with a new line of innovative probes, designed to perform reliably and withstand even the toughest process conditions. Two-wire connections ensure easy and inexpensive installation.

Features include:

- [High temperature and pressure probes](#) for extremely demanding level applications.
- A [wide range of probe styles](#) to cover virtually any application.
- Multivariable, loop-powered [level and interface transmitter](#) which reduces tank penetrations and installation cost.
- Direct Level Measurement means no compensation required for changes in temperature, pressure, density, dielectric or conductivity.
- Easy-to-use Radar Configuration Tools makes [setup quick and easy](#) and provides diagnostics with waveform plotting and logging tools.
- Virtually unaffected by [dust, vapor and interfering obstacles](#).
- Robust modular design resulting in low operating cost and increased safety.
- [Easily integrated](#) into existing plant architecture.



The Rosemount 3300 Series provides reliable and cost effective measurement in a number of applications where other types of loop-powered transmitters cannot be used.

Level gauging in bridles

Guided Wave Radar is the ideal choice for measurements in [bridles](#). It is unaffected by density changes, bridle configuration and has no moving parts which minimizes maintenance. This makes it an easy and reliable substitute for displacer technology.



High temperature and high pressure (HTHP) applications

High temperature and pressure level applications require more than a general purpose transmitter with thicker material or additional cooling capacity. These applications require a design that can adapt to thermal expansion and contraction, retain strength and provide efficient feed through of microwave signals. The new Rosemount 3300 Series is now available with [High Pressure and Temperature](#) probe types that can handle pressures up to 5000 psi (345 Bar) and temperatures up to 752 F (400 C).



Level gauging in liquified gases and ammonia tanks

Liquid gas as LPG and other [pressurized applications](#) require maintenance free measurement equipment. Since the transmitter head can be serviced without breaching the tank atmosphere, the Rosemount 3300 Series is perfect for pressurized and volatile applications where tank opening must be minimized.



Reliable level measurements of liquids and slurries

The Rosemount 3300 Series delivers reliable level data where even other radar transmitters fail. The high signal/noise ratio in the transmitter and the radar pulse focused along the probe helps eliminate [echo interference](#) problems.



Interface level measurement

The Multivariable™ Rosemount 3302 is the only loop-powered transmitter on the market to deliver multi-level measurement. Thanks to its [advanced signal processing](#), it measures both top surface and interface level in tanks containing different liquids, such as oil and water.



Rosemount 3300 vs. Displacers

Displacers are used for level, interface, and density applications. In each type of application, the buoyancy of the displacer in the fluid is the primary measurement principle. Thus, density of the fluid is a key factor in sizing the displacer and in the stability of the application. In level and interface applications, any deviation from the initial density used for sizing will impact its measurement accuracy.



Kaminco Process Management will be happy to send you more information about the Rosemount 3300 Series and reply to any enquires you would have about these products.

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