



How do I Know the Rosemount 5408 is a Good Fit for Mixing and Blending Applications?

Non-contacting radar handles many challenging applications including changing fluid characteristics (density, dielectric, conductivity, viscosity) and wide variations in pressure and temperature. The midrange 26 GHz frequency is optimal for typical process level application challenges including condensation, turbulence, nozzles, product build-up, foaming and agitators.

The Rosemount 5408 Level Transmitter offers:

- Broad range of connections
- Wide pressure and temperature limits
- Long measuring range
- No dielectric limits
- HART® Protocol
- SIL2 Certified



CHALLENGES IN MIXING AND BLENDING APPLICATIONS

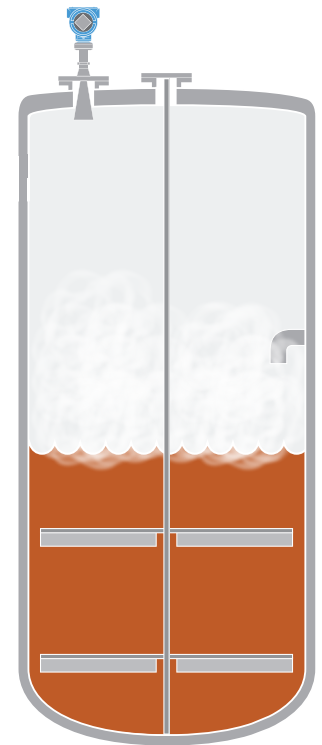
Process fluid in blenders often changes fluid properties such as density and dielectric. Vapors and condensation on top surfaces and equipment can block or attenuate signals from top down devices. Mixing blades can prevent use of contacting technologies such as GWR or capacitance.

THE ADVANTAGE OF RADAR

Since radar measures the top of the surface, changes below the surface have no impact on level measurement accuracy. Radar can handle vapors and condensation often found in blenders. Radar is a top down measurement which makes it easy to install and commission without emptying the tank.






ROSEMOUNT 5408 ADVANTAGES

- Turbulence caused by agitation can impact the signal return. FMCW radars puts 30 times more energy on the surface compared to pulsed radars, which equates to a stronger return echo.
- The greater resolution provided by FMCW (up to 3 times greater than pulsed radars) allows the Rosemount 5408 to easily discern the surface from the mixing blades.
- With its unique waveguide design, no O-rings are used in the wetted part construction, simplifying the specification of the Rosemount 5408.
- The guided set-up makes it easy to map out agitator blades and verify the correct level.



For further information please visit
www.Emerson.com/Rosemount/5408




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