



How do I Know the Rosemount 5408 is a Good Fit for Open Atmospheric 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 OPEN ATMOSPHERIC APPLICATIONS

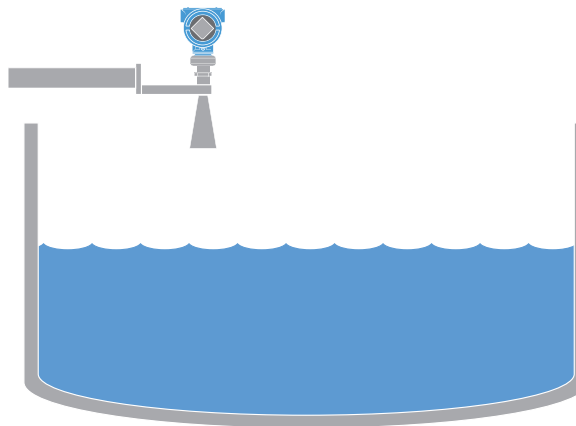
Open atmospheric applications appear to be an easy measurement but have some unique challenges. Over long ranges, wind can push slow sonic signals away from the sensor. Ambient temperature and moisture changes can impact accuracy of sound-based technologies. The surface can have foam or floating debris which adds to the measurement challenge.

THE ADVANTAGE OF RADAR

With radar signals traveling at the speed of light, there is no chance for lost signals. Radar is unaffected by ambient temperatures, steam or weather-induced fog.

ROSEMOUNT 5408 ADVANTAGES

- Sumps and flumes may have some foam on the surface. The Rosemount 5408 with its powerful FMCW signal can reliably penetrate the foam to measure the surface.
- Over very long ranges such as river levels at dam sites or floating roofs, the parabolic antenna can provide a focused signal and allow the Rosemount 5408 to maintain an accurate measurement to within +/- 2 mm.
- The Rosemount 5408 is lightweight and easy to install using the bracket mounted option.
- The Rosemount 5408 has global approvals for use as a LPR (level probing radar) for open air applications.



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




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