

Non-Contacting Radar Reliably Measures Level in Chemical Plant

RESULTS

- Provides reliable measurement of level despite internal obstructions
- Provides non-contact measurement for sticky, viscous material
- Handles vapors
- Utilizes remote access



APPLICATION

Liquid Phenolic Resin

Application Characteristics: Viscous, sticky fluids, 158 °F(70 °C), Light agitation, heated, 40 ft (12 m) vessel

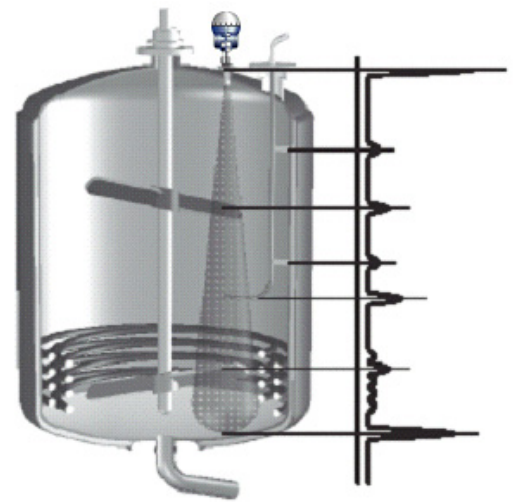
CUSTOMER

Chemical Plant, USA

CHALLENGE

A chemical plant in the US needed level devices for their phenolic resin tanks. The process is a viscous fluid that tends to coat and solidify on any surface it contacts. The process is stirred to help prevent solidification of the resin. Because of the heating, vapors were present.

The sticky material and turbulence eliminated the use of contacting technologies. Non-contacting technologies were preferred, but the presence of the vapors caused additional limits on the non-contacting choices. Other concerns were that the heating coils and agitators would cause many false reflections for a non-contacting device.



The presence of internal disturbances such as agitators and heating coils can be easily identified and filtered out with the easy-to-use Radar Master Software.

SOLUTION

Non-Contacting radar is a good solution for this application because it is immune to vapors and temperature changes as well as any changes in properties of the fluid itself. The Rosemount 5600 was installed in these resin tanks because of its capacity to handle the turbulence and any false echoes due to the internal structures.

The presence of internal disturbances such as agitators and heating coils can be easily identified and filtered out with the easy-to-use Rosemount Radar Master Software. The customer also appreciated that they could work with the 5600 using a laptop and a HART modem at any place on the 4-20 loop. This allowed them to completely configure and fine-tune the device from the climate controlled surroundings of the operator's control room.

RESOURCES**Emerson Process Management Chemical Industry**

<http://www.emersonprocess.com/solutions/chemical/>

Rosemount 5600 Series Radar Level Transmitters

<http://www.emersonprocess.com/rosemount/products/level/m5600.html>

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