

# Asian Refinery Minimizes Maintenance with Multivariable Guided Wave Radar

## RESULTS

- Maintenance is minimized
- Provides reliable interface measurement independent of density changes



## APPLICATION

Raw Pyrolysis Gasoline and Water

**Application Characteristics:** Clean, low dielectric fluid (2.0) on water (80)

## CUSTOMER

Refinery in Asia

## CHALLENGE

In the Refining Industry there are many vessels used to separate oil and water. Many of these separators have bridles that are about 3 feet (1 m) in height. Most of these applications use displacers to measure the interface between gasoline and water.

One company had been using a displacer for such an application but faced problems with the measurement. Fluid density changes caused the readings to be inconsistent and they did not match the actual interface. Moreover, they had frequent maintenance problems and costly spare parts replacement.

## SOLUTION

The Rosemount 3302 MultiVariable Guided Wave Radar was chosen with interface as the primary variable. Because it was not always immersed, occasionally they would get both a level and an interface measurement in the bypass cage. Using a 3302 allowed them to correctly distinguish the interface measurement from the level measurement. It also provided compensation for the air gap when it was present.

The 3302 has no moving parts, making it maintenance-free. With the 3302, the customer received a reliable measurement of interface that is independent of density, conductivity, temperature, pressure, pH, or viscosity.

## Resources

See Technical Note 00840-2200-4811

<http://www.emersonprocess.com/rosemount/products/level/m3300.html>

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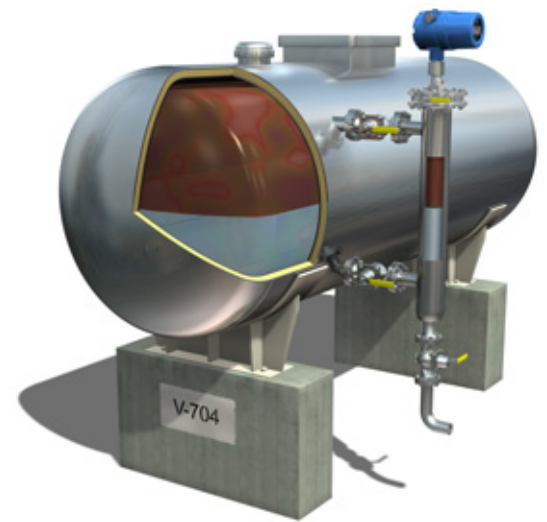
Rosemount Division  
8200 Market Boulevard  
Chanhassen, MN 55317 USA  
T (U.S.) 1-800-999-9307  
T (International) (952) 906-8888  
F (952) 949-7001  
[www.rosemount.com](http://www.rosemount.com)

### Emerson Process Management

Heath Place  
Bognor Regis  
West Sussex PO22 9SH  
England  
T 44 (0) 1243 863121  
F 44 (0) 1243 867554

### Emerson Process Management

Emerson Process Management Asia Pacific  
Private Limited  
1 Pandan Crescent  
Singapore 128461  
T (65) 6777 8211  
F (65) 6777 0947  
[Enquiries@AP.EmersonProcess.com](mailto:Enquiries@AP.EmersonProcess.com)



*Rosemount 3302 is an easy replacement for displacer*

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[www.rosemount.com](http://www.rosemount.com)