Cost Effective Alternative to Displacer Level Measurements for Refinery and Petrochemical Applications

Displacer’s often provide inaccurate results combined with High Maintenance

THE PROBLEM

- Displacer accuracy is dependant on the specific gravity of a fluid. Varying specific gravities and “off spec” product result in significant measurement errors.
- Coating build-up on the displacer body produces errors.
- “Blowdowns” to clean displacer internals and cages is time consuming and expensive.
- Rebuilds due to component wear add significantly to the total cost of ownership.
- Interface measurements are more sensitive to slight specific gravity variances and result in separator throughput lower than the design specification.

THE SOLUTION

- AMETEK Drexelbrook Radio Frequency (RF) Admittance technology eliminates all of the inherent problems with Displacer technology level measurement.
- RF is immune to changes in specific gravity, density, temperature, and pressure.
- Accuracies to 1⁄4 inch of level in short span installations.
- No moving parts to wear, No periodic maintenance.
- Replacement cost differentials covered by eliminating one rebuild.

Other Solutions:

- Amine Storage
- Ammonia Storage
- Sour Water Stripper
- Vacuum tower
- Cat Cracker Tower
- Acid
- Distillation Towers
- LNG
- Caustic Storage
- Phenol
- Propane / Butane
- Acrylate / Acid Interface
- Molten Sulfur
- Coalescer
- Oil / Water Interface

Typical Uses:

- Continuous Level Control
- Inventory Management
- Point Level Control
- Overfill Protection
- Waste Management
- Regulatory Compliance

4 - 20 mA, Honeywell or HART® Protocol

Easily Retrofit from Displacer to RF Level Technology

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