

Emerson's Rosemount® 3051S Thermal Range Expander

New DP Level system for hot processes



WHAT IF...

... you could easily instrument hot process applications?

... you could improve response time in applications with hot processes?

CHALLENGE

Applications that have extremely hot processes require specialized fill fluids that can handle high temperatures. These viscous fill fluids will gel at normal ambient temperatures and cause a differential pressure (DP) system's response time to slow down, making it unusable. Often heat tracing is used to keep fill fluids warm, but the solution is expensive and maintenance-intensive.

OUR SOLUTION

The Rosemount Thermal Range Expander enables DP Level systems to be direct-mounted on processes up to 410°C (770°F), and to provide repeatable, reliable measurements over a wide range of ambient temperatures. The solution can be installed right out of the box; it requires no additional impulse piping or heat tracing components, and eliminates extra installation costs and maintenance.

HOW IT WORKS

- Two diaphragms allow the use of two separate fill fluids.
- The device utilizes a high-temperature fill fluid to handle the hot process, and a different fill fluid to handle the ambient environment.
- Available on all 3051SAL technologies including Rosemount 3051S ERS™ Systems, Tuned-System™ Assemblies, Balanced Systems, In-Line and Coplanar™ direct mount or remote mount configurations.



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Process Management