

# Rosemount Differential Pressure Level Solutions



Keeping You a Step Ahead

**ROSEMOUNT**

  
**EMERSON**<sup>™</sup>  
Process Management

## Finding it harder to keep a step ahead?

Your time is important. So are the decisions you make. Staying a step ahead on projects, schedules and other requirements is becoming more challenging every day. Selecting and managing DP Level systems requires consideration of a wide variety of application, installation and instrumentation factors. Choosing the right level instruments for an application will have a positive impact on your business. Increased production time, reduced costs, and fewer safety concerns will result.



*How do I know I'm choosing the right seal system for a given application?*

Our consultative approach, based on best measurement practices, helps optimize performance in every application. Our sales consultants understand your process and are available to help determine which Rosemount product will provide the results you need for DP Level applications.



*My operating conditions are becoming more demanding every year; can you give me a solution that will run reliably for the life of my plant?*

Rosemount DP Level instrumentation is a reliable, proven technology that performs consistently over time, even in the harshest process conditions.

Emerson Process Management can help improve your plant operations. For over 30 years, our expertise combined with reliable DP Level products has enabled plants and processes worldwide to run more safely and efficiently.



*I need to focus on improving efficiency and productivity in my plant. What new capabilities can you offer to facilitate these improvements?*

Emerson continues to develop new capabilities for Rosemount DP Level instruments like electronic remote seals, leading edge diagnostics and wireless that help you make process and maintenance improvements.



*I am responsible for a wide variety of process equipment and instrumentation. Who do I turn to when I need help?*

Our worldwide network of product experts is always available locally to answer your questions and help you implement solutions. Whether it's a standard catalog product or a special configuration, we strive to meet all of your needs.

The combination of Rosemount level transmitters and remote seals deliver an unsurpassed product offering that is easy to specify, order, and install. The product offering includes process connections, materials, and system options to address almost any application.

### Comprehensive product offering

- Integrated solutions for all pressure transmitter types
- Published offering of 22 seal types and 17 materials
- Custom engineered configurations available to meet your specific application needs



### Find out more

Our instrument consultants can help you specify the right solution for your next application to keep you a step ahead on level measurements. Our goal is to ensure every remote seal system meets or exceeds your expectations by offering knowledgeable sales and service, on-time delivery, expediting capabilities, and worldwide technical support.

Visit [www.rosemount.com/DPLlevel](http://www.rosemount.com/DPLlevel) for more information.

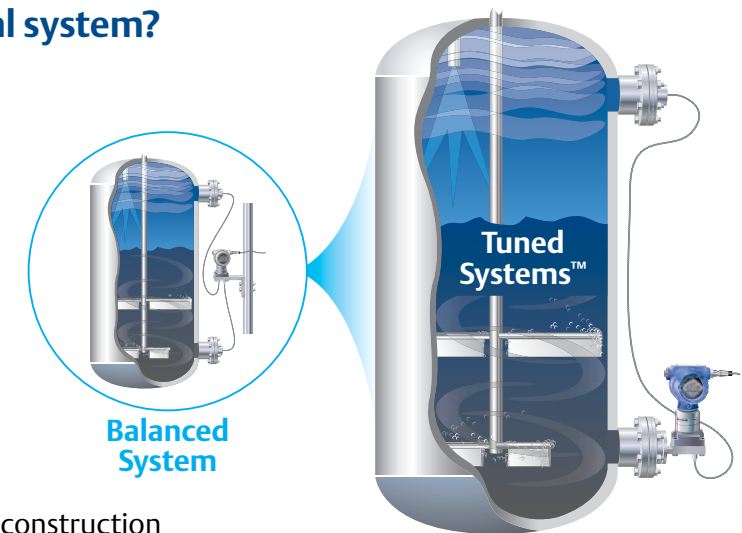
Updating installation practices will also deliver improved results. Tuned-Systems involve designing a better remote seal solution for the application by combining direct mounting of the transmitter, optimizing the remote seal solution, and validating the configuration and performance. Tuned-Systems are only available from Emerson Process Management.

### Why tune your seal system?

- Reduce project risk
- Simplify installation
- Improve performance

### Tuned-Systems reduces installed cost by 20%

- Easier to install
- No excess capillary
- No mounting or stand construction



### We can prove it to you with Instrument Toolkit® software

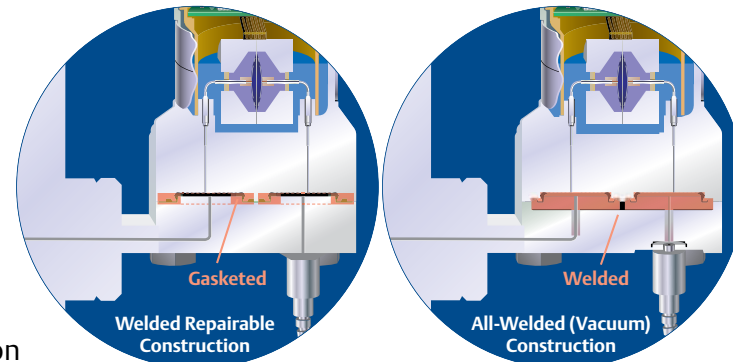
- Validate seal configuration for your application
- Remote seal system performance calculation report (QZ option) available
- Reduce total temperature effects by 10-20%
- Improve response time by up to 80%

## Optimized system construction delivers reliability

You need reliable, high performance instrumentation for your application. Nothing compares to Rosemount level transmitters when it comes to reliability. Our engineers design remote seal systems to meet even the toughest applications and provide reliability over time.

### Optimized system construction

- Designed as a complete system for reliability
- Minimized volume for best performance
- Welds 100% helium leak-tested
- Advanced fill fluid preparation and manufacturing techniques
- All-welded construction designed for 6 psia (413 mbar) to full vacuum
- Gasketed connections enable seal system repairs



**Back-up diaphragm pattern**

- Extended diaphragm life in processes with solids
- Improved performance over temperature due to lower fluid volume

**Recessed diaphragm**

- Protects seal from installation damage
- Minimizes gasket induced errors

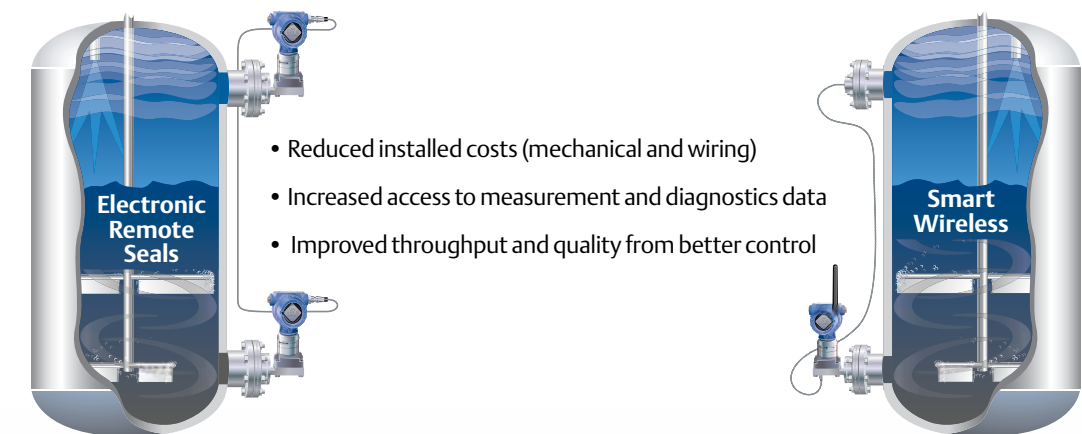
**Advanced weld techniques**

- Engineered to prevent weld corrosion
- Improves seal reliability

## Innovative level capabilities make your job easier

Best practice installations provide benefits you can't get any other way, but how can you be sure you keep up with technology and product improvements? Emerson continues to develop technology to enhance the product and software tool capabilities to help make your job easier. Examples include adding wireless to the Rosemount 3051S Series for unequalled flexibility, electronic remote seals to replace existing wet leg or dry leg installations, or advanced configuration and diagnostic functions in transmitters to minimize maintenance costs.

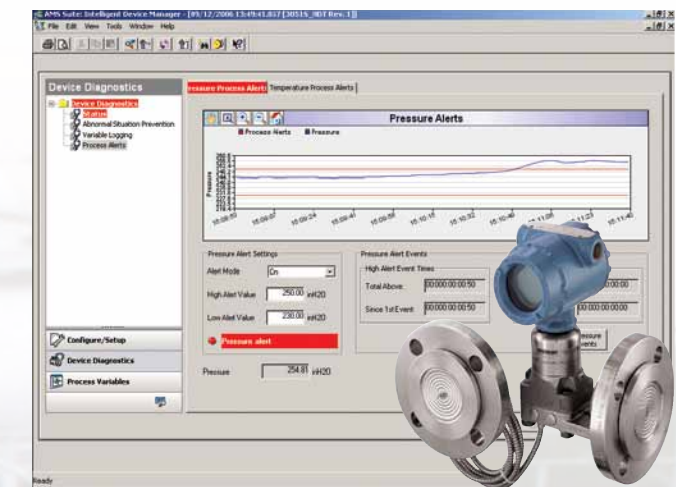
### Wired and wireless solutions, enabling better measurement capabilities



- Reduced installed costs (mechanical and wiring)
- Increased access to measurement and diagnostics data
- Improved throughput and quality from better control

### Simplify configuration and reduce maintenance

- Users define level units and scaling to fit their application
- Diagnostic alerts for proactive maintenance
- Advanced diagnostics to prevent abnormal situations such as agitation loss



# A complete product range for process level measurement

Rosemount level measurement transmitters from Emerson are designed to cut costs and increase safety by giving precise and reliable level data under most process conditions. Based on five different measurement principles – differential pressure, non-contacting radar, guided wave radar, ultrasonic, and vibrating fork level switch – the Rosemount level products offer a wide range of measuring capabilities to fulfill easy and demanding applications.



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