Reach New Heights with Your Instrumentation
A New Answer to an Old Problem

Everyone has an installation that consumes time and resources, whether it’s a distillation column or an outdoor vessel with wide varying temperatures. Impulse lines can be unreliable, and long lengths of capillary are hard to work with. The Rosemount 3051S ERS™ System eliminates mechanical worries and delivers digital results.
**Improve Performance**

Measurement drift, caused by changes in ambient temperature, is magnified by long lengths of impulse piping or capillary. The 3051S ERS System replaces mechanical components with a digital architecture, resulting in a stable and repeatable measurement.

**Simplify Maintenance and Reduce Costs**

Cold-weather installations often require heat tracing. Impulse lines need to be checked for leaks, condensation, evaporation, and plugging. The 3051S ERS System eliminates these practices, leaving you with more time to run your plant rather than fixing it.

**Gain Greater Process Insight**

Differential Pressure is a critical measurement for operating a vessel or tower, but it doesn’t tell you everything. The 3051S ERS System is a MultiVariable™ solution that gives you the information you need to properly monitor and control your processes.

**Go With What You Know**

Using the latest technology does not have to be complicated and require hours of training. The 3051S ERS System is simply a digital upgrade to a proven and well understood technology: DP Level.
A Digital Upgrade to a Proven Technology

The Rosemount 3051S ERS System is a new digital DP Level architecture that replaces impulse piping and capillary with two 3051S pressure sensors linked together electronically. Differential Pressure is calculated in one of the two sensors and is transmitted using a standard two-wire 4-20 mA HART signal.

- Improve time response by over 90%
- Eliminate temperature effects and measurement drift
- Loop wiring and LCD can go at top or bottom connection
- Process connections include flanges, manifolds, and remote seals
- Easy access with Remote Display and Interface
Reduce Spares and Maintenance Routines

• Each sensor can be independently serviced for reduced process downtime
• Simplify your inventory with sensors and standard cable
• No need to carry different lengths of capillary systems

More Than a Level Measurement

• Monitor and control the tank vapor pressure in real-time
• Track the temperature of each sensor module
• Proactive maintenance and troubleshooting with sensor diagnostics and configurable process alerts

Simplify Installations

• Install each sensor independently
• Easily install electrical wires through catwalks and around hazards without heat tracing or insulation
• No zero elevation calculation required

Easy Integration

• Entire system uses a single 2-wire, 4-20 mA HART loop
• Easy configuration, commissioning, and troubleshooting with Device Dashboard graphical interface
• Pre-programmed and synchronized DP calculation
Expand Your Application Success
Get the results you want on the applications you have never been able to solve. Emerson has the tools and expertise to help you implement the 3051S ERS System and other technologies successfully.

Taking a Proven Technology to New Heights
The 3051S ERS System and Rosemount Tuned-System™ Assemblies are complimentary technologies, allowing you to use DP Level instrumentation in more places than ever before.

Maximize your success by using the 3051S ERS System on distillation towers, tall vessels, and other applications with long spans or wide-varying temperatures.

Tuned-System Assemblies will continue to be ideal for installations with shorter spans and higher pressures.
See What Others Have Achieved

The 3051S ERS System has already been used across all industries in a variety of applications including:

- Distillation columns
- Chemical storage tanks
- Kraft pulping vessels
- Enzyme fermentation
- Alkylation reaction
- Beer fermentation

Find out more by visiting us at Rosemount.com/3051SERS
For more information on the 3051S ERS System and other Rosemount level technologies including Tuned-System Assemblies, Radar, Ultrasonic, and Switches, visit www.Rosemount.com/Level