

# Flowback and Well Testing Optimization

Begin oil and gas production earlier by maintaining tight flow back control and well testing operations for solids risk and metal loss impact.



## Solids Intensity and Erosion Monitoring

When horizontal drilling and fracturing takes place, mud, proppants, sand, and other solids flow back to the earth's surface, delaying production operations and causing unplanned shutdowns.

### Optimize Flowback Period Duration

Flowback is a fast-paced operation that requires data-driven decision making. Empower flowback operators with real-time solids intensity data to aid in their decisions as to when and how the well should continue flowing and releasing rental equipment when needed.

### Avoid Loss of Containment Events

Flowback solids possess high erosive power capable of consuming the piping's erosion and corrosion allowance within hours. Monitor the wall thickness of your assets and set alerts to allow maximum throughput without jeopardizing health and safety conditions.

### Reduce Sand Separator Outages

Increase separator reliability and minimize unplanned shutdowns by monitoring solids intensity and metal loss in the inlet and outlet of your unit, avoiding manual operations and data gaps.

### Enhance Reservoir Performance

Historical solids production and erosion rates reveal insights about your fracking and reservoir performance. Seamlessly gather, store, and share solids production risk and erosion impact across key decision makers to enhance reservoir performance.



Overcome volatile market conditions by maximizing oil and gas production through data-driven fracking and well testing activities.

For more information, visit [Emerson.com/CorrosionSandMonitoring](https://www.emerson.com/CorrosionSandMonitoring) or contact your local Emerson Sales Representative



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## Real-time Sand and Erosion Measurements

### Wall Thickness Measurement

The Rosemount™ Wireless Permasense ET210 Corrosion and Erosion Monitoring System is a non-intrusive device designed to continuously measure wall thickness in pipes and vessels using ultrasonic technology (UT). The ET210 Sensor system is non-intrusive and battery-powered, allowing for quick and straightforward magnetic installation over erosion hotspots in both single or multiple unit arrangements. The ET210 delivers data via *WirelessHART*®, enabling secure and cost-effective data retrieval to desk.



Rosemount Wireless Permasense ET210

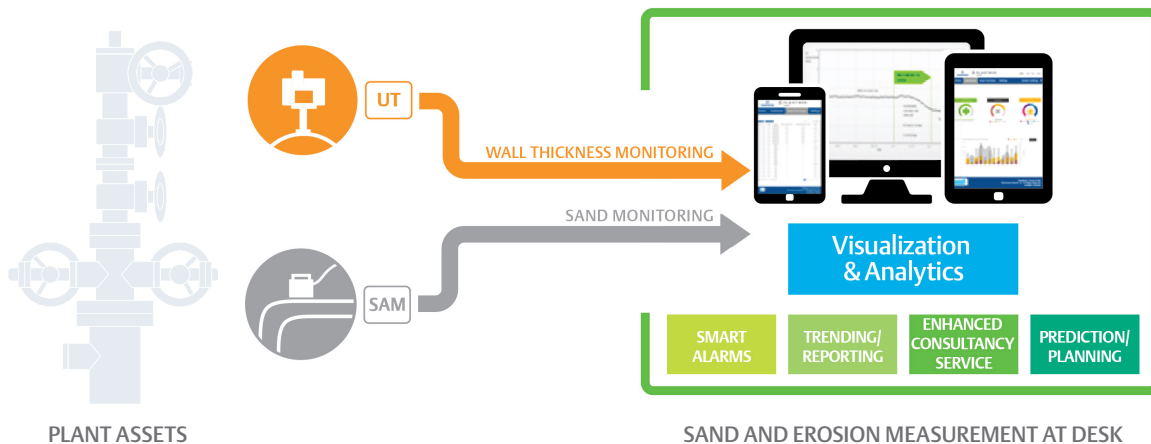
### Solids Intensity and Rate Measurement

The Roxar™ SAM Acoustic Sand Monitor is a non-intrusive device designed to measure intensity of solids as well as the rate in oil and gas flow lines using acoustic technology. The Roxar SAM is installed at a bend and data is retrieved via a Modbus Remote Terminal Unit (RTU), providing actionable information directly to your Distributed Control System (DCS).



Roxar SAM Acoustic Sand Monitor

## Complete Flowback and Well Testing Solution



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### Consider It Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges.

For more information, visit

[Emerson.com/CorrosionSandMonitoring](https://www.emerson.com/CorrosionSandMonitoring)

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