

Rosemount™ MS Sensor and 8782 Transmitter for Slurry Flow Applications

Delivering stable and consistent flow measurement in applications with challenging process noise



CHALLENGE

When debris is present in the process stream, it can cause process signal noise, creating unstable or inconsistent measurement readings in magnetic flow meters. One common cause of noise in slurry applications is particle impingement, which is often caused by sand, solid particulates in the flow stream, or fibers found in pulp and paper rubbing against the electrodes.

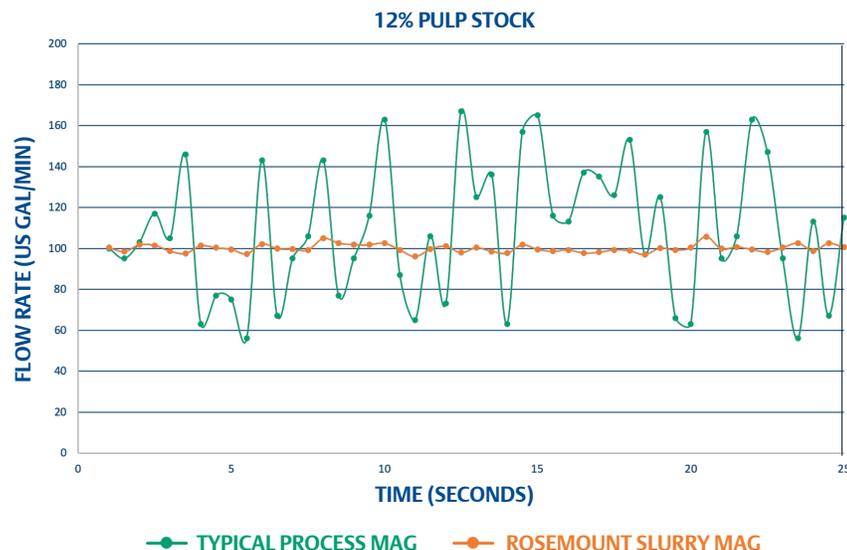
OUR SOLUTION

Emerson's new Slurry Magnetic Flow Meter cuts through the process noise and delivers stable and reliable flow measurement readings especially in high noise and slurry applications.

HOW IT WORKS

The advanced signal processing uniquely adapts to changing process conditions to ensure that noise is eliminated from your flow signal, giving operators confidence in their measurement calculations. Flow signal stability and real-time diagnostics deliver measurement confidence and the ability to automatically control the loop, improving product quality, reducing raw material cost, and minimizing waste and re-work.

In typical magnetic flow meters, excess process noise will create an unstable flow signal, making automatic process control nearly impossible.



The new slurry magnetic flow meter delivers:

- Exceptional flow signal stability
- Industry-leading measurement accuracy
- Latest in advanced signal processing
- Smart Meter Verification™



Exceptional performance in the harshest environments in high noise and slurry conditions

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ENHANCED CAPABILITIES DELIVER GREATER MEASUREMENT CERTAINTY

Advanced Diagnostics

- High process noise diagnostics and selectable coil frequency provide maximum signal stability
- Electrode coating identifies coating before it becomes an issue

Smart Meter Verification™

- Eliminate uncertainty with on-demand or continuous verification for meter health and stability
- Simplify compliance with an audit trail for each meter with stored results



MS Sensor and 8782 Transmitter Specifications:

Available Line Sizes:	3 – 36 inch (80 – 900 mm), ASME Flanges up to Class 2500, EN-1092 up to PN40, grooved coupling, and other flanges available on request.
Power Options:	AC: 90 to 250V AC, 50-60Hz DC: 12 to 42V DC
Accuracy:	± 0.25% ± 1mm / sec standard; ±0.15% ± 1mm/sec high accuracy option
Enclosure Type:	Type 4x and IP66/IP69 on Sensor and Transmitter, IP68 available on Sensor
Signal Stability:	Selectable low and high coil frequency settings Customizable advanced signal processing routines available
Standard Diagnostics:	Includes Empty Pipe, Reverse Flow, Electrode Saturation, Grounding and Wiring

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