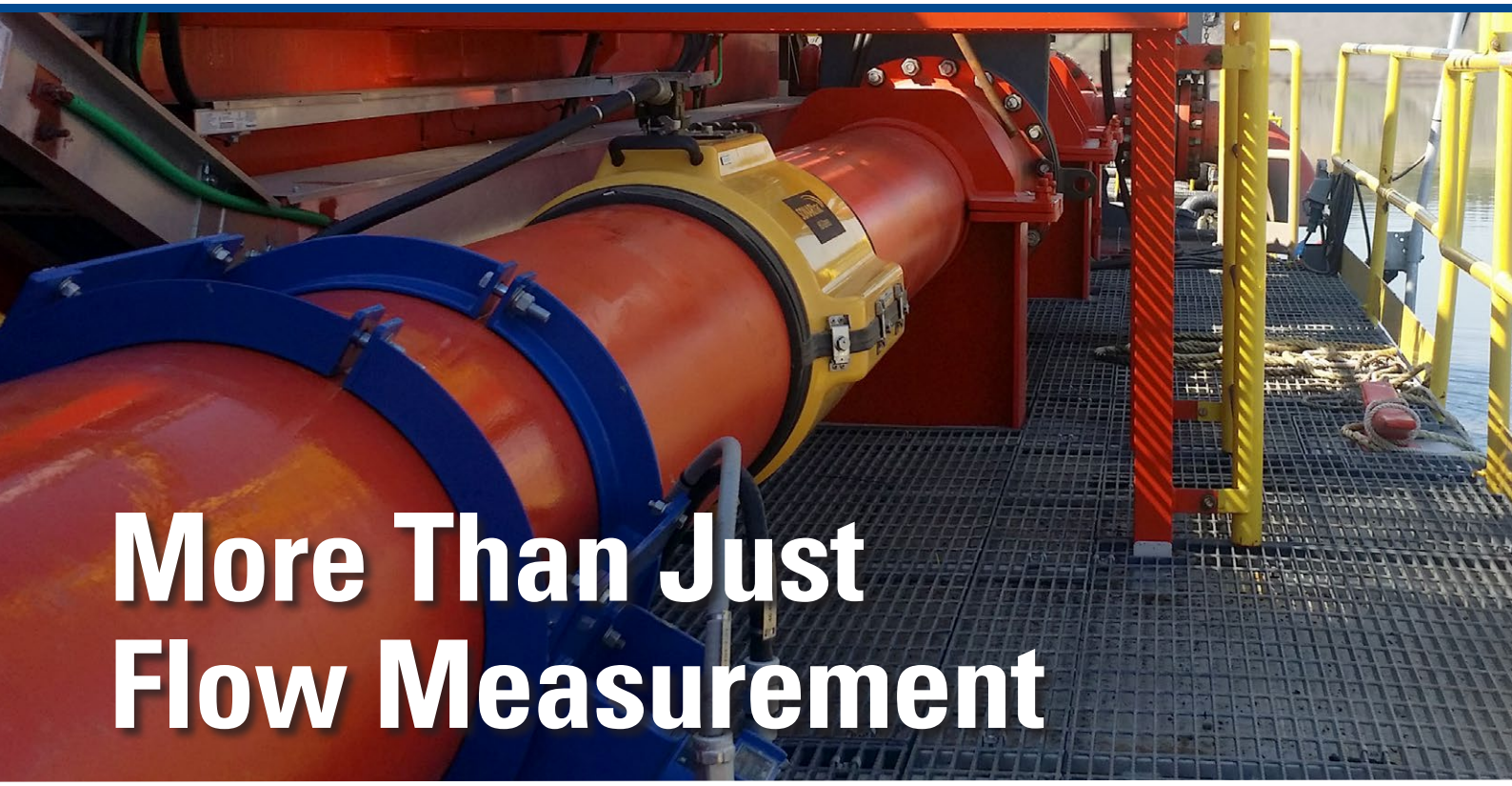
SONARtrac®



More Than Just Flow Measurement

The Only Technology that Provides Flow, Velocity, and Entrained Gas Measurements

Why is measuring flow and entrained gas important?

- More accurate material balance
- Density measurement correction
- Enhanced drag head control
- Environmental benefits
- Increased operational efficiencies
- 'Bottom line' improvements

For nearly 15 years, the SONARtrac® velocity, flow, and entrained gas system has fast become the predominant multi-measurement technology in the most challenging slurry flows throughout the world.

SONARtrac systems deliver value by increasing pipeline transport uptime, throughput and virtually eliminating recurring maintenance required by conventional in-line flow measurement.

Delivering Value Through Any Market Cycle

For more information on SONARtrac
+1.203.265.0035 or www.cidra.com

CiDRA®

A Technology that Provides Benefits Regardless of Market Cycle

Key Features and Differentiators

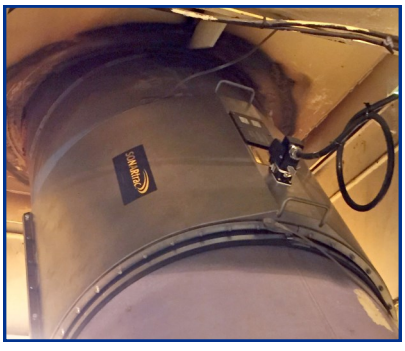
The SONARtrac® flow and gas void fraction meters are light weight and wrap around the outside of the pipe while the process is running	Ability to accurately and reliably measure **flow, velocity and entrained gas**	No moving parts or parts prone to wear

Benefits

- Depending on the diameter size, can be safely and quickly installed in under two hours by one or two people without the use of heavy lifting equipment
- Installs while process is running. No periodic maintenance or recalibration required
- No measurement drift, no need to recalibrate
- Long life: Operating in harsh slurry environments for over 12 years without a replacement
- No wetted parts or flanges means that there is no concern for pressure ratings or leakage escapes
- Minimizes the risk of fines carry over through the monitoring and control of entrained gas
- The SONARtrac flow meter's ability to measure gas by volume can be utilized to correct errors in density measurements and provide the true liquid volume - both essential for an accurate material balance
- The monitoring and measurement of entrained gas minimizes pump wear, degasser overload and/or pump suction pressure loss resulting in hopper blockage
- Versatile: Can be installed on a large variety of pipe materials and lined pipes

Impact on Company's Priorities

- Safety: Significantly reduces the risk and likelihood of personal injury
- Increases asset uptime and throughput
- Increases in throughput, reduces cost
- Virtually eliminates instrument maintenance costs and investment in inventory
- Enhances safety and environmental initiatives
- Increases in operational efficiency and profit
- Increases asset utilization and operational efficiency
- Increases operational efficiency and flexibility



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