SONARtrac®
Flow Monitoring Systems
Non Intrusive - Maintenance Free
Not Ultrasonic

Well suited for slurries, lined pipes, pipes with scale, magnetic ores, in grinding, smelting, leaching, high pressure pipelines, flotation lines, hydrocyclone feed and discharge lines

CiDRA®
Minerals Processing

www.cidra.com
+1.203.265.0035
OPTIMIZE YOUR BENEFICIATION PROCESS

Unique Process Monitoring Instrumentation and Services
– for concentrators, pipelines, leaching facilities, and tailings management

Products
Flowmeter – Non-Invasive for Slurries and Liquids
Entrained Air Meter for Pipes – Density Correction / Cavitation
Gas Holdup Meter for Flotation Tanks/Columns
Acoustic Monitoring System – Pumps, Valves, Leaks
Pipeline Batch Tracking System

Services
Flow Measurement Service
Pipe Wear Monitoring
Pipeline Sanding Detection – Velocity Profile
Flow and Entrained Air Surveys
Meter Check Service
Mass Balance
Process Optimization
Cyclone Oversized Rock Detection

Measurement Challenges | SONARtrac® Advantages
--- | ---
Install a flowmeter without stopping process | Installs on the outside of the pipe
Labor and safety requirements for installation of large flowmeters | Lightweight, single or two person installation without need for cranes
Flowmeter has to measure both liquids and slurries | Same instrument measures entrained air, clean liquids, slurries and pastes
Corrosion and erosion on flowmeters impacts repeatability, reliability and results in downtime | No wetted parts. Installs on the outside of the pipe with no gels or couplants (not an ultrasonic meter)
Scale buildup on traditional flowmeters such as magmeters leads to increased maintenance costs and measurement downtime | A unique ability to continuously provide accurate flow velocity measurements with any pipe liner and with scale buildup
Magnetic material in ore such as magnetite and pyrrhotite, adversely impacts the accuracy of even magnetic-compensated magmeters | The SONARtrac system does not use a magnetic field thus it is not affected by the magnetic properties of the slurry. It is the only technology able to provide a reliable flow measurement completely unaffected by the presence of magnetite
A traditional flowmeter can measure only flow | SONARtrac technology is a platform which has been expanded to measure the percentage of air mixed in with a slurry, to differentiate between slurry and water in pipeline batch operations, and to acoustically monitor valves, pumps, and pipes

SONARtrac and CiDRA are registered trademarks of CiDRA.
© 2015, CiDRA, All rights reserved.  BL0362 Rev B