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Mining companies are increasingly looking for non-nuclear measuring instruments, because of stricter government regulations, increasing safety related costs and the need to reduce nuclear waste.

The ultrasonic Slurry Density Meter (SDM) from Rhosonics eliminates all [costs, health and safety risks](#) related to the radiation source. This easy-to-use non-nuclear device does not require any license and provides reliable density values to monitor and improve production output. Rhosonics has hundreds of SDM installations for mineral slurry applications worldwide and more than 28 years of experience with ultrasonic technology, therefore the company believes that nuclear density meters are no longer needed.

The SDM can measure density of mineral slurries at high density levels and on very large pipes. By measuring the acoustic impedance of a slurry, the SDM calculates the density of the slurry real-time for direct process control. Typical applications in mineral processing are thickener underflow, feed, or overflow, concentrate of the flotation cells and cyclone feed. The sensor does not intrude into the pipe and is made of the strongest wear resistant materials that protect the sensor against highly abrasive slurries. Installation is done by a weldolet or with a spool piece.

Features and benefits:

- Non-nuclear density meter, ultrasonic technology
- Real-time density measurement
- Durable probe system
- Lowest possible maintenance needs
- High accuracy and reproducibility
- Suitable for all types of slurries
- Compact integrated system
- Process connection via HART and 4-20mA
- Continuous data & system logging

Please see the video below to learn more about the SDM technology:

<https://www.youtube.com/watch?v=Z2UTQ3geIE0&t=>

Rhosonics has written several case studies and client references about their technology which can be requested. Please contact us and we are happy to provide these documents to you.

Download links:

Download the SDM Brochure: [English](#) - [French](#) - [Spanish](#) - [Portuguese](#)

Download the SDM Case Study: [Dredging](#) - [Mining](#) - [Comparison test](#) - [Washing Plant](#)

