The Roxar SAM Acoustic Sand Monitor delivers unprecedented oil and gas production performance. It permanently monitors the intensity or rate of sand production in real-time, enabling data-driven decisions that help you avoid:

- Asset erosion damage focused on chokes and sandscreens
- Unplanned outages related to sand screen or pipe clogging
- Reduced reservoir permeability because of uncontrolled sand migration

**Key Applications**

- Permanent sand monitoring in start-up, clean up and production phases
- Alarm setting for critical sand production levels
- Four phase flow measurement when connected to the Roxar 2600 Multiphase Flow Meters

**Key Specifications**

- Non-intrusive and easy to clamp instrument
- Approvals: ATEX, IECEx, CSA, Inmetro and EAC
- Flow velocity input: Only for rate quantification
- Surface temperature: -40 °C (-40°F) to +115 °C (239°F) or -40 °C (-40°F) to +290 °C (554°F).
- Hazardous Area: Zone 0, 1 and 2

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**Wellhead Continuous Sand Monitoring**

- Production Wellhead
- Production Wellhead
- One unit per wellhead

**Installation & Measurement Principle**

- Spring Loaded Microphone
- Sand-Generated Noise (impact center point)
- Pipe Bend
- Flow
- Digital Output (mean value/one second)
- Frequency
- Flow generated noise
- Sand generated noise

**Installation Actionable Information**

- Roxar SAM received in DCS
- One data point per second keeps sand production under control

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www.Emerson.com/Roxar