



EXPRO

WELL FLOW MANAGEMENT™

/ Expro Excellence Meters

Expro's ActiveSONAR™ flow meters provide accurate non-intrusive measurement of drilling fluids



Objectives

- Client requires a sophisticated and cost-effective method for the measurement of drilling fluid flow rate to overcome the limitations of traditional measurement methods

Expro Excellence

- Expro's ActiveSONAR flow meter is ideally suited for measuring the flow of drilling fluids and has been qualified for the use in conventional and managed pressure drilling (MPD) operations
- Successfully deployed on drilling operations and proven track record
- One man rig up with no rig down time
- Non-intrusive design with no wear parts, therefore maintenance-free
- No in-situ calibration required
- Suited for oil-based and water-based drilling fluids
- High accuracy flow measurement in fluids with high solid content
- Wide turn-down to cover all expected flow rates during drilling operations – changes in fluid properties does not affect measurement performance

- ATEX./IECEX Zone 1 and US/Canada Clas1/Div2 rated for rig floor operations
- Compatible with industry standard mud logging systems

Value to client

- Expro's ActiveSONAR has benefits over traditional measurement methods:
 - Avoidance of human error: risk of miscount especially when switching between various pump sizes and running multiple pumps
 - Enables a more proactive approach: traditional metering has a lack of real-time flow rates
 - Drilling mud pump efficiency: counting strokes does not account for physical wear on the pump liner, which can cause differences between theoretical and actual pumping rates
- Cost-effective compared to coriolis-type meters and does not occupy a large space on the rig floor

There are several variables that make it challenging to find one type of flow metering technology that can be cost-effectively applied to a wide-range of drilling operations and provide the accuracy that is demanded in today's high-tech drilling operations. Expro provides the solution.

Drilling mud flow measurement can be a very challenging measurement for traditional flow meter technologies. Most traditional flow meters are designed within a specific operability range and do not have wide turndown.

Flow meters that are intrusive into the flow are highly susceptible to wear and damage from solids, chemicals and cuttings in the drilling flow stream. Safety is also extremely important, and flow meters must be designed to operate in high pressures and harsh environments without risk of safety critical failure.

Contact

For further information, please visit:
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