

Technical Information & Data Reference

PRESSURE WHILE DRILLING LOGGING

Pressure-While-Drilling (PWD) Sensor, provides crucial downhole pressure information that allows optimized drilling efficiency and monitoring wellbore hydraulics. This cost-effective solution delivers real-time and recorded pressure measurements to help avoid a lost circulation and detect flow or kicks immediately. The PWD Sensor also monitors ineffective cuttings removal and poor hole cleaning.

KAMBI's PWD system is compatible to run with our Mud Pulse MWD to measure and monitor critical annulus, pipe, differential pressure, and temperature during drilling operations, as well as tripping out. With real time pressure measurements it is possible to detect problems much earlier than traditional surface measurements decreasing the likelihood of costly drilling delays.

Measurements are field configured for flexibility and maximum data density. Each of these systems can deliver high-resolution logs, allowing accurate monitoring and analysis so you can make faster and more reliable decisions.

Applications

- Reservoir Pressure Management
- Drilling optimization
- Early Lost Circulation Detection
- Hole cleaning monitoring
- Pressure Swab/Surge Avoidance
- Kick & Water Flow Detection
- ECD Monitoring & Calculations
- Pressure Drop Monitoring
- Formation Fracturing and Mud Loss Reduction
- Annular Pressure Monitoring
- Pipe Washout Detection
- Formation Integrity Testing
- Formation Fluid Influx Detection



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Benefits

- Compatible with KAMBI's Positive Mud Pulse MWD systems.
- Drilling Optimization and efficiency.
- Ideal for a variation of wells, ensuring optimal tool performance in any environment.
- Mud weight optimization to avoid kicks and drilling delays.
- Delivers a wide range of real-time annular, pipe pressure and temperature near-bit measurements.
- Ability to run in high-speed real-time, or memory output, providing operational versatility.
- Reduced drilling expenses and risk.

Pressure While Drilling Specifications

Accuracy			
	Low Pressure (20 psi)	Mid Pressure (10kpsi)	High Pressure (20kpsi)
Room Temp (25°C)	±7 psi	±7 psi	±15 psi
Mid Temp (80°C)	±15 psi	±7 psi	±7 psi
High Temp (150°C)	±20 psi	±10 psi	±7 psi
Min Pressure	14 psi		
Max Pressure	15000 psi	Max Pressure	15000 psi
Accuracy	±10 psi	Accuracy	±10 psi
Resolution	1 psi	Resolution	1 psi



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1.403.243.4438

www.kambi.ca