

PDD

Pressure During Drilling

“Real-time” & Memory MWD / LWD Service

Service Benefits

Available in 3 1/8", 3 1/2", 4 3/4", 6 3/4", 7 3/4" and 8 1/4" OD tool diameters.

Sensor Specifications

Measurement Range:	0 - 15000 psi
Accuracy:	+/- 0.25% of full scale
Repeatability:	+/- 3 psi
Transmitted Resolution	3.662 psi / bit
Operating Temperature Range:	-55°C to 150°C
Measurement Type:	Keller Piezo Resistive Silicon Sensor
Detection Method:	Phase sensitive detector / Synchronous demodulator
Bridge Excitation:	AC
Corrections:	4th order temperature correction of bias and scale factor
Averaging Time:	Adjustable from 1sec - 30sec
Update Time	Adjustable from 1sec - 30sec
Memory:	1Mb of non-volatile memory
Power Source:	High Temperature Lithium Battery
Battery Life	300 hours

Service Applications

- Real-time downhole hydraulics monitor
- Real-time ECD monitoring and management
- Annulus cuttings overload detection
- Washout detection
- Kick monitoring and control
- Lost circulation detection
- Mud motor performance and control
- Mud rheology control
- Optimisation of hole cleaning
- Formation fracturing / loss limitation
- Air and underbalanced drilling well control
- Nitrogen / Air mix control

