

Recon Scout™ UNMANNED MWD



The Unmanned Recon Scout MWD offers a robust solution to lower cost without compromising quality.

The complexity of setting up the Recon Scout system is handled in a controlled environment following a strict protocol that eliminates variability inherent to field operations. HSE is improved by minimizing personnel onsite and simplifying the BHA assembly.

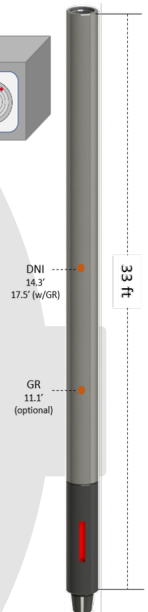
The Recon Scout system can be used to steer mud motors with both magnetic and gravity toolfaces, and is well suited to work in vertical drilling applications. Gamma ray logging is also an option. Six axes raw surveys are available as well as drilling mechanics (Vibration, Shock and Stick-Slip). Lastly, the tool can be reconfigured downhole using a reliable rotation downlink method.

Three levels of service are available:

- **Unmanned Level 1 (EDR Based Decoding System)**
 - Rig Drillers are in full control (24x7 remote support available)
- **Unmanned Level 2 (Scout's Decoding System)**
 - Rig Drillers are also in control and decoding is performed using SDI's computer and software (allows for drilling mechanics data; 24x7 remote support available)
- **Unmanned Level 3 (Scout's Remote MWD)**
 - Remote MWD gamma logging (no MWD personnel onsite)



- ✓ EDR Decoder Compatible
- ✓ Buffered Data Transfer
- ✓ Remote Control
- ✓ Six Axes (RT & Mem)



RECON SCOUT™



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TECHNICAL SPECIFICATIONS

Unmanned Recon Scout MWD		
Special Features:	<ul style="list-style-type: none"> • Collar Mounted System • Inclination or Inclination/RPM Activation • Continuous Inclination with Azimuth • RPM Downlink 	
Sensor Specification		
Inclination	Accuracy	+0.1°
	Spread @ 90° Inc	0.2°
Azimuth	Accuracy	+0.5°
	Spread @ 90° Inc	0.5°
	Spread @ 10° Inc	1.0°
	Spread @ 5° Inc	2.0°
Dip Angle	Spread	0.4°
Total Gravity Field	Spread	2.5 mG
Total Magnetic Field	Spread	250 nT
Temperature	Operating: -4 °F to 302 °F (-20 °C to 150 °C)	
Vibration	Random: 20 GRMS, 10 Hz-500 Hz	
Shock (1 mSec, half sine)	Operating: 500G's	
Pressure	20k psi	
LCM Limitations (high LCM option available)	Medium Nut Plug, 30 lbs/bbl (85.6 kg/m³)	
Telemetry	Positive Pulse	
Mechanical Specifications - deg/100ft (deg/30m)		
	Rotating	Sliding
4-3/4" (121 mm)	17	31
6-1/2" (165 mm)	10	20
6-3/4" (172 mm)	10	18
8" (203 mm)	7	12
9-1/2" (241 mm)	6	12



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