

175°C/185°C KEYDRILL MWD KIT

Overview:

KeyDrill MWD system offers a complete downhole solution with an enhanced performance, extraordinary reliability and stability, cost-efficiency, and advanced features for our customers. It is retrievable and completely compatible with QDT legacy tools. KeyDrill MWD system is an open platform and supports 36 Generic Variables so various third party sensors such as Gyro tools, resistivity tools, azimuthal gamma tools and rotary steerable tools can be added to the MWD tool strings. KeyDrill surface systems are the most advanced and reliable decoding systems with Plug&Play and automated filtering capabilities to provide our customers the most reliable and accurate decoding solutions.

Features:

- 25% faster high-speed raw data encoding scheme comparing to QDT standard scheme
- Sophisticated data processing algorithms to increase raw data accuracy to 6 decimals
- Realtime rotation detection capability to make the downhole alerts available to the surface
- High-accurate rotation/continuous Inclination algorithms (~0.2degree in 2 standard deviation)
- Multiple sleep modes and resync capabilities
- Rotary downlink capability
- Open platform design with 36 generic variables to add multiple third-party tools
- Annular/Pipe pressure tool available
- Azimuthal gamma tool available
- Fast data transmitting algorithms available
- High-efficiency power supply to extend the battery life

Battery

Battery

Directional
Sensors

Azi Gamma

KPWD

Pulser

 **KEYDRILL**
The Key to Advanced Drilling Solutions



KRG

Sensor Specifications:

Parameters	Range	Resolution	Accuracy
Inclination	0 - 180°	0.05°	±0.1°
Continuous Inc.	0 - 180°	0.05°	±0.2°
Azimuth	0 - 360°	0.18°	±0.25°
Continuous AZM	0 - 360°	0.2°	±1.5°
Toolface	0 - 360°	0.18°	±1°
Mag Field	0 - 75000 Gamma	100	±200
Azimuthal Gama	1023	1CPS (Max RPM 500)	±1CPS
High/Low Gama	1023	1CPS (Max RPM 500)	±1CPS
Total Gama	1023	1CPS (Max RPM 500)	±1CPS
Annular Pressure	20,000PSI	Programmable	0.2% FS
Pipe pressure	20,000PSI	Programmable	0.2% FS
Temperature	-40 - 205°	1°	±1°
Downhole RPM	0 - 500	1 RPM	±1%

Tool Specifications:

Tool Length:	29.7ft (9 Meter)
O.D.:	1.875"
Operating Voltage:	18-38 V
Pulse Width(s):	0.25, 0.375, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, and 3.0
Battery Life:	300 - 500 Hours for dual-batteries depending on pulse width
Operating Temp:	-20 - 175°C/185°C
Max Hydrostatic Pressure:	20,000 PSI (137.9 MPa)
Memory:	more than 300 Circulation Hours
Available Tool Size:	OD = 3.75", 4.75", 6.5" and 8.0"
Shock:	1000 G/0.5 millisecond, half sine all axes
Vibration:	25g RMS 30-500 Hz Random; 20g all axes

KDU Mini w/ base radio