

KEYDRILL COMPACT RECEIVER SYSTEM (KCRS)

Overview:

The KeyDrill Compact Receiver System (KCRS) acquires, processes, and decodes the mud-pulses generated by downhole MWD tools. The system can be linked to the Rig Floor Display and Transducer together through a single yard cable or wirelessly through the KeyDrill KWS Wireless Connection System. The signals from the transducer are decoded and the processed data is displayed simultaneously on the Rig Floor Display and laptop in the trailer. KeyDrill's user friendly software makes viewing, plotting and analysis of the MWD data quick and easy. The KCRS is compatible with the most popular Q-Bus and CAN-Bus Mud Pulse MWD tools and Rig Floor Displays.



Features:

- Parameters decoded and displayed: Tool Face, Inclination, Azimuth, Magnetic Field, Gravity Field, Dip Angle, Gamma, Pressure, Battery Voltage, Temperature, Avg. Reliabilities, Resistivity, Pulse Amplitude, Pulse Width.
- Uses "plug and play" automatic detection technology to optimally adapt the receiver settings without need for user interaction. This feature makes setup less prone to errors and independent of operator skill level, preventing costly mistakes in the field.
- KeyDrill's Advanced Receiver Technology has the ability to detect 1 PSI and capable of 1 pulse sync making it the highest performing Mud Pulse Receiver on the market.
- Displays as many as 7 decimals of raw data. The data accuracy is determined by the downhole tool.
- Supports standard WITS and other popular depth tracking systems.
- Compact, rugged construction and light weight make it extremely durable and easily transported to any location.
- Works universally with most Rig Floor Displays.
- Compatible and works universally with the most popular Q-Bus and CAN-Bus MWD tools on the market.

Advantages:

Automatic Detection Technology

The KeyDrill Decoding Unit does not require operator input, it automatically makes adjustments to optimize decoding. This feature makes setup less prone to errors and independent of operator skill level, preventing costly mistakes in the field.

Superior Detection Capability

The KCRS can decode as low as 1 PSI pulses. Most of the competition's receivers cannot detect pulses less than 3 PSI.

Advanced Synchronization Technology

This technology makes the one pulse sync possible. It opens the door to solutions for various challenging sync patterns caused by poor signal environments such as very deep drilling and PDC Bit drilling, etc. These situations cause the sync pulse patterns and their amplitude to be so distorted that traditional sync technology will not work. KeyDrill makes synchronization possible in the worst conditions.

Specifications:

Operation Power: 90 – 240 VAC, 50 – 65Hz

Operation Temperature: 0° to 50° C

Storage Temperature: -40° to 80° C

Operation/Non-Operating Vibration:3G RMS

Weight:12 lbs

Dimension: 13" x 9" x 5"

