

KEYDRILL MICRO RECEIVER SYSTEM (KMRS)

Overview:

The KeyDrill Micro Receiver System (KMRS) acquires, processes, and decodes the mud-pulses generated by the downhole MWD tools. The decoded data can be then sent wirelessly to the laptop computer in the trailer where it can be viewed, plotted and further analyzed. This surface system is compatible with most popular Q-Bus and CAN-Bus Mud Pulse MWD tools in the market.



Features:

- Compatible and works universally with the legacy Q-Bus and CAN-Bus MWD tools on the market.
- 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 is independent of operator skill level, preventing costly mistakes in the field.
- KeyDrill’s Advanced Receiver Technology has the ability to detect 1 PSI and is capable of 1 pulse sync, making it the highest performing Mud Pulse Receiver on the market.
- Can decode pulses with as fast as 0.125 seconds pulse width,
- Supports standard WITS and other popular depth tracking systems.
- Support wireless remote display
- Intrinsically safe design



Specifications:

- Operation power: USB Powered
- Output Power to Transducer: ... 18VDC, 30ma IS barrier protected
- Output Power to Tool: 18VDC 200ma non-protected
- Operation Temperature: -20° to 55°C
- Storage Temperature: -40° to 85°C
- Ports: USB, Transducer/Programming
- Vibration: 3G RMS
- Weight: 2 lbs.
- Dimension: 8.5” x 4.25” x 2.5”

The KeyDrill Advantage Over the Rest

Automatic Detection Technology

KeyDrill Decoding System does not require operator input, it automatically makes adjustments to optimize decoding. Our competitors' performance is closely dependent on the operator's skill in setting pulse thresholds.

Superior Detection Capability

The KMRS 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 and multiple agitators, 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.

