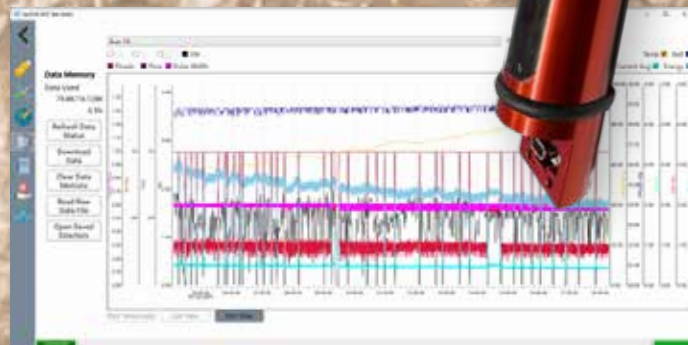## Overview:

The KeyDrill Pulser Driver (KPD) is a universally designed driver that is compatible with most mud-pulse pulsers on the market. Its low power consumption can extend the battery life. The robust shock/vibration damping can protect the driver module from the severe conditions of rough drilling while maintaining excellent detection of flow status. The Hall sensor failure mode reinforces the reliability and stability of the pulser driver. When one or more Hall sensors fail to function downhole, the pulser continues to operate, eliminating the need to trip. The onboard flash memory can record up to 800 circulation hours of memory data with detailed numeric data; pulse information, temperature, battery voltage, flow sensors readings, etc. Available in Max Operating Temperatures of 175°C, 185°C and 200°C.

## Features:

- High-speed pulsing (up to 0.125s PW)
- Continue operating without using Hall sensors – no recycle or trip necessary
- High Vibration/Shock resistance
- QBus compatible
- Low noise when running with short hops like Babelfish/Orbit RSS
- Configurable clearing pulses including option to indicate sensorless mode while downhole
- High-speed memory download
- KPD Test Utility software provides an intuitive user interface that's easy to understand, with a range of testing options, diagnostic analysis, driver configuration, firmware upgrades, memory downloads, and memory plotting capabilities
- Real-time plotting of vibration on 3 axis, temperature, voltage, current, pulse width, & flow status
- Live view of each Hall sensor state
- Servo Poppet/Orifice wear measurement
- Total pulse count
- Life remaining analyzer
- Energy consumption for each pulse

## Specifications:

Operating Voltage:. . . . . . . . . . . . . . . . . . . . 18V to 36V

Max Operating Temperature:. . . . . . . . . 175°C, 185°C and 200°C available

Dimensions: . . . . . . . . . . . . . . . . . . . . . . 11"x 1.4"x 1.4"

Shock: . . . . . . . . . . . . . . . . . . . .1,000g / 0.5 millisecond

Vibration: . . . . . . . . . . .20g RMS 30-500 Hz Random; 40g all axes

Power consumption: . . . . . . . . 10mA quiescent at 28V

Connection type: . . . . . . . . . . . . . . . . . . . 15 pin MDM

Flash memory size: . . . . . . . . . . . . . . . . . . . . . . . 16MB

## KEYDRILL

The Key to Advanced Drilling Solutions