— KEYDRILL BOTTOM MOUNT PULSER GEN3 (BMP-G3)

Overview:

KeyDrill Bottom Mount Pulser Gen3 (BMP-G3) encodes MWD telemetry into a sequence of pressure surges (positive pulse) in the mud column by restricting mud flow through a reciprocating poppet. The tool is fully retrievable and replaceable. The BMP-G3 is a drop in replacement, bottom mount, servo pulser module that is fully compatible with the QDT-compatible MWD system. It incorporates cutting-edge technologies to achieve significant improvements in performance.

The BMP-G3 is available with Piston or Bladder style oil compensation based on the customer's preference. Combined with servo motor technology, the KeyDrill BMP-G3 has excellent power efficiency and offers more accurate control than the legacy QDT solenoid pulser.

Features:

- High power efficiency and accurate motor control.
- Improved battery life.
- Strong torque and force to make sure tools can work in harsh environments such as high LCM.
- 3-axis flow detection and adjustable flow switch.
- Strong circuit protection and EMI cancellation for superior reliability.
- Compatible with most Mud Pulse MWD Systems.
- Fully interchangeable Piston and Bladder Compensator sections.
- On board memory records pulser status, power consumption and environment conditions for later analysis.
- Unique firmware that responds to downhole tool issues.
- The electronics section can be configured to accommodate a gamma sensor.

Specifications:

Min Flow Rate: 35 gpm (8 L/sec) in water
Max Flow Rate: 1,100 gpm (67 L/sec) in water
Operating Temperature:40°C to 175°C
Max Hydrostatic Pressure: 20,000 PSI (137.9 MPa)
Operating Voltage: 20-38V
Nominal Current:
Shock: 1,000G / 0.5 millisecond
Vibration: 20g RMS 30-500 Hz Random
Mud Sand Content: <1% recommended
Poppet Push/Pull Force:
Output Flow Switch: 0-5VDC
Power Consumption:
Length (End to End) & Weight:
Standard: 51.5" (1,308mm) / 25 lbs (11.3 kg) With Gamma: 66.2" (1,681.48mm) / 33 lbs (14.9 kg)
Housing Diameter: 1.875" OD

