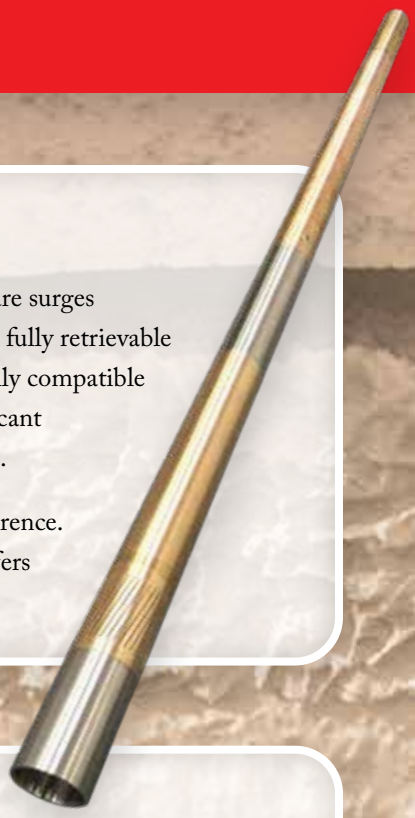
KEYDRILL BOTTOM MOUNT PULSER GEN3 (BMP-G3)



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. Available in Max Operating Temperatures of 175°C, 185°C and 200°C.

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.

Key Features:

- High power efficiency and accurate motor control.
- Strong push and pull for high LCM environments.
- High-speed pulsing (up to 0.125s PW)
- Continue operating without using Hall sensors -no recycle or trip necessary.
- Configurable clearing pulses including option to indicate sensor less mode while downhole.
- High Vibration/Shock resistance
- Low noise when running with short hops like Babelfish/SLB RSS
- KPD Test Utility software provides an intuitive user interface & high-speed memory download.
- Energy consumption for each pulse
- Real-time plotting of 3 axis vibration, temperature, voltage, current, pulse width, flow status, & hall sensor state.
- Life Remaining Analyzer, total pulse count, & servo poppet/orifice wear counter.

Specifications:

Min Flow Rate: ..... 35 gpm (8 L/sec) in water

Max Flow Rate: ..... 1,100 gpm (67 L/sec) in water

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

Max Hydrostatic Pressure: .... 20,000 PSI (137.9 MPa)

Operating Voltage: 20-38V

Nominal Current: 12mA

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

Vibration: ..... 20g RMS 30-500 Hz Random

Mud Sand Content: ..... <1% recommended

Poppet Push/Pull Force: ..... >100 lbs

Output Flow Switch: 0-5VDC

Power Consumption: ..... 400 hours per 29V Lithium Battery

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

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