

Drilformance



VPULSE™

SUPERIOR PULSE TECHNOLOGY

Offering industry leading reliability with the advantages of high speed decoding and reduced non-productive time. The VPulse MWD is proven to be an industry leader in operational efficiency and excellence.

DRILFORMANCE.COM

Benefits of VPulse Technology

PULSER

- Poppet driven by high efficiency brush-less DC motor
- Advanced power supply; minimizes motor impact on battery voltage
- Integrated memory logging collects detailed view of all motor, communication and environmental events down-hole
- High tolerance to LCM

GAMMA

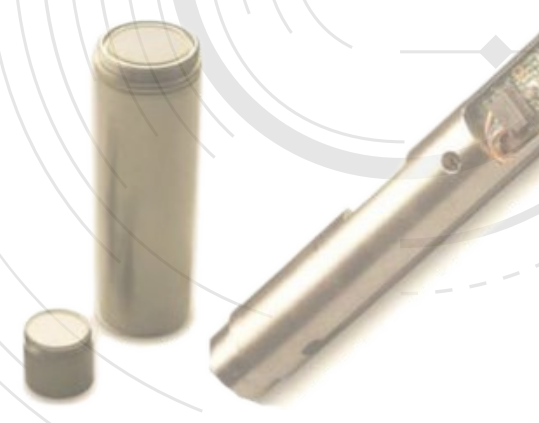
- Sensitivity of ~ .85 Counts/API
- Accuracy is within +/- 3% Count Rate Change - 25C to 177C
- Gain Stabilization is Open Loop - Gain adjusted with Temperature
- NaI Crystal is a Saint-Gobain with .75G5 (Active Area)

DIRECTIONAL MODULE

- Meets Standard MWD Instrument Performance Model ISCWSA MWD Rev 4
- Ruggedness - Many times higher shock ratings than delicate quartz sensors
- 27 Solid-State Sensors
 - 18 accelerometers
 - 3 ruggedized magnetometers (solid state)
 - 3 shock sensors (x,y,z)
 - 2 temperature sensors
 - 1 gyro sensor
- Electronics
 - 32-bit Processor
 - 24 x 16-bit A/D Converters
 - Standard USB interface or Q-bus interface
- Memory
 - 32 Megabytes (20 days drilling)
 - Full 27-sensor array every 20 seconds
 - Gamma Ray every 5 seconds

DRILLING DYNAMICS

- Aerial/Lateral shock and vibration (counts, peak, RMS)
- Down-hole RPM, torsional vibration
- Transmits up to 11 different curves describing shock, vibration, RPM, and temperature with "WITS" data from rig's "EDR".
- Custom post-run tool dumps with transmitted vs. memory curves.



V PULSE™
MWD-LWD SYSTEM