Locus MWD™

Performance On Point

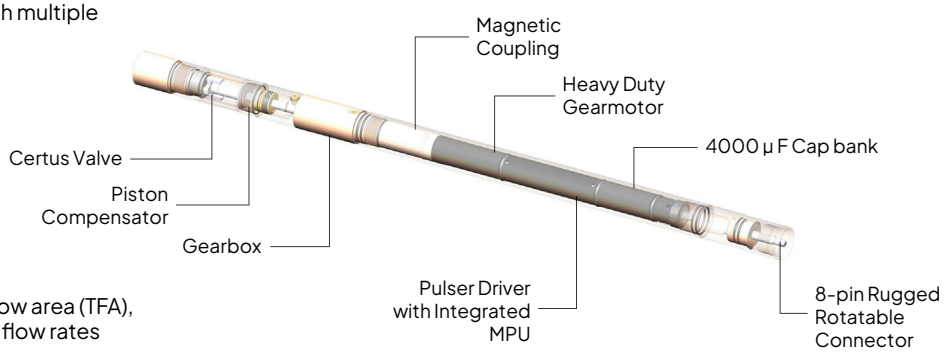
High-Density, High-Speed Data For Improved Wellbore Placement

Locus Measurement While Drilling (MWD) leverages over tens years of tool development expertise, and millions of downhole operational hours, to fine tune and deliver the next generation in MWD performance and reliability.

The patented pulser design enables faster pulse activation and data transmission. The pulser also eliminates the need for the hall sensor, reducing common failure points and increasing overall durability and reliability.

Features:

- Faster servo valve activation through multi-port design
- Ruggedized diamond-on-diamond valve design
- In-House designed Pulser, Driver and Gamma modules*
- Multiple RSS and third-party module integration including Babelfish and Kratos
- Custom, easy to interpret surface interface with multiple



Benefits:

- Faster data transmission
- Higher recorded data density
- A four-port valve design with increased total flow area (TFA), providing more reliable performance at higher flow rates
- Faster actuation downhole
- Patented pulser design reduces failures
- Improved wellbore placement

Specifications

Nominal length	39.63”
Housing o.d.	1.875” (47.6 mm)
Operating voltage range	15 to 40 VDC (20 to 35 V recommended)
Power consumption	~5mA standby (MPU + Pulser board); ~200 mA*s/pulse @ 28V
Operating temperature	32° to 347°F (0° to 175°C)
Shock rating	1000g, 0.5ms, ½ sine, 10 times, all three axes
Vibration rating	5 to 30 Hz at 1 in. double amplitude, 30 to 500 Hz 20grms all axes
Pressure rating	20,000 psi (137,895 kPa)
Operating pulse widths	0.188 to 2.000 s
Flow switch	Integrated three axis, solid state with high configurability
Memory	32MB nonvolatile memory with event and statistical data logging. More parameters logged compared to SlickHD.