

Enhanced Position Monitor

The Enhanced Position Monitor module is designed to redefine the execution of directional survey while drilling deployments. By providing real-time, high-precision positional data, our module offers unparalleled accuracy in the industry. This allows for more efficient and effective operations, ultimately leading to improved outcomes for our customers.

One of the key advantages of our Enhanced Position Monitor module is its integration with Black Diamond's existing MWD platforms. This seamless merging of the market-leading solid-state gyro with our MWD technology ensures a comprehensive and reliable solution for our customers.

Our module is equipped with dual independent North finding sensor packs. This feature ensures reliable azimuth readings even in areas with high magnetic interference, regardless of the well inclinations. By eliminating the need for magnetic correction in all operations, our module surpasses the accuracy achieved by traditional MWD sensors.

Our Enhanced Position Monitor module offers a significant advancement in the industry, providing our customers with the tools they need to optimize their drilling operations.

Benefits

High Accuracy

- Wellbore positioning accuracy through a reduced ellipse of uncertainty
- Reduced wellbore tortuosity by removing directional corrections

Unaffected by Magnetic Interference

- Operations now possible in areas off-limits to traditional MWD
- BHA optimization through the removal of requirement for non-magnetic collars
- Sensors positioned closer to bit than is possible with magnetometers

End of Run Surveys

- Full well, outrun surveys, when pulling out of hole, remove need to deploy post-run wireline survey tool

Compatibility

- Fully integrated with Black Diamond Hybrid MWD system
- Gamma logging and transmission using Hybrid Gamma sensors

Drilling Efficiency

- Accurate and well-defined wellbore placement removes requirements for directional corrections
- Survey wait time greatly reduced

High Reliability

- Solid-state technology delivers high shock and vibration resistance
- Mounted on the Black Diamond Hybrid mechanical platform benefiting from market leading shock reduction technologies

Sensor Specifications

Measurement	Accuracy
Inclination	+/- 0.1°
Azimuth	+/- 0.25°
Toolface - Northing	Gyro TF+/- 0.1°
Toolface - Gravity	+/- 0.1°
Magnetic Field	+/- 200 nT
Dip	+/- 0.15°
Gravity	+/- 0.002 g
Rotation	+/- 333 rpm
Temperature	+/- 0.5° C

Environmental

Variable	Specification
Inclination	0-180°
Temperature	125° C/ 150° C
Operating Voltage	16-40 V
Power Usage	3.0 - 6.0 W
Memory	32 MB - 32 GB
Communication	CAN
Module Diameter	1.875"
Module Length	42"

