

**Gyrodata's High Precision Rate-Gyroscopic Surveyor has been ruggedized to run in the MWD string while drilling when magnetic interference is present, offering operators an optimum high-tech solution for:**

- » Advanced Collision Avoidance
- » Rig-Time Savings & Reduced Costs
- » Safer Drilling Operations

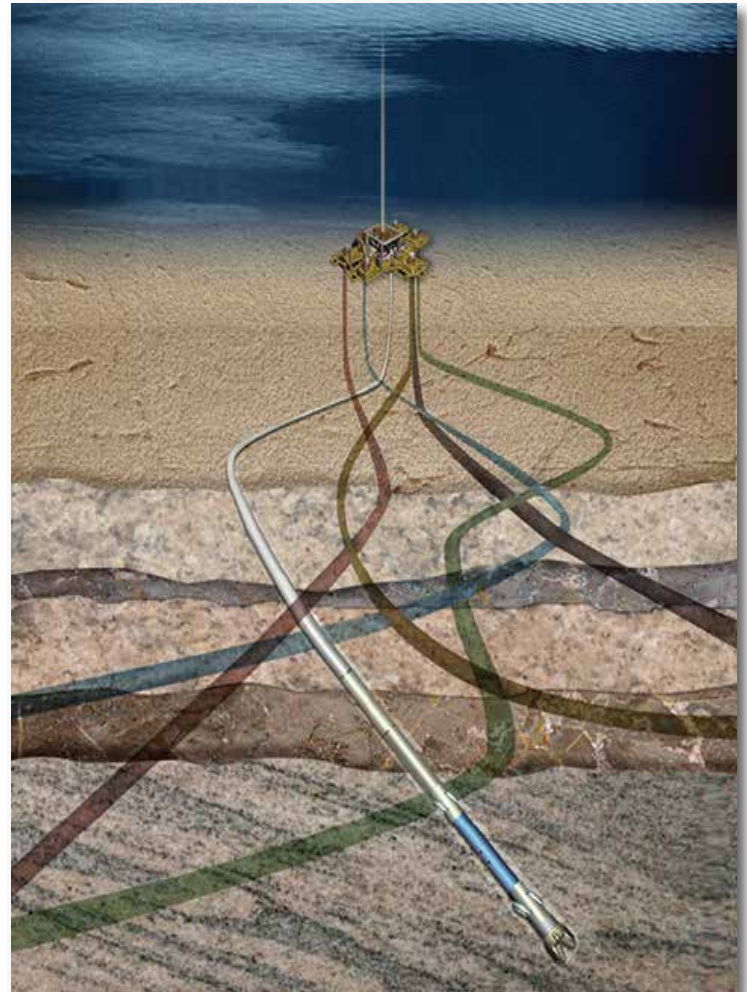
Gyro-Guide GWD™ has now successfully performed over 600 operations worldwide with the leading MWD suppliers.

**Features:**

- » Gyro-Guide GWD™ is a fully integrated guidance system housed in the MWD tool string—providing high accuracy rate-gyro steering while drilling
- » Proven ruggedized rate-gyro and accelerometer sensor array with a proprietary shock isolation system
- » Provides continuous toolface data from vertical while drilling and full surveys when required
- » Communicates in real-time through the host MWD mud pulse or EM telemetry system
- » IMT Mode allows accurate survey operations in areas with excessive BHA movement, such as on floating structures and in riser-less applications

**Advantages:**

- » Gyro-Guide GWD™ saves considerable rig-time and provides a safer operation by eliminating the need to use wireline gyros to orient or steer drilling assemblies
- » Rate-gyro accuracy assures precise wellbore guidance for collision avoidance and accurate wellbore placement
- » Gyro-Guide GWD™ sensors can run closer to the bit in the MWD string since they are not affected by magnetic interference and require no spacing collars
- » Gyro-Guide GWD™ operates in conjunction with most MWD systems, providing operators with greater flexibility in the selection of suppliers



**Specifications**

**Sensors:** Three axes of rate-gyro and accelerometer sensors.

» **System accuracy at maximum inclination:**

Azimuth	± 1.0°
Inclination	± 0.1°
Gyro Toolface	± 1.0°
Gravity / High-Side TF	± 0.1°

» **Probe OD:** 1 7/8"

» **Pressure rating:** 20,000 psi

» **Temperature:** 150° C / 300° F with no time constraints.