

## PRODUCT SPEC SHEET

# QUEST™ GWD - MODULAR

powered by SPEAR™

All-Attitude, High-Accuracy, Solid-State Gyro While Drilling

### MECHANICAL SPECS

Probe Length	9.9 - 10.4 ft	3.02 - 3.17 m
Probe OD (Standard probe)	1.875 in	47.625 mm
Probe Weight	55 lbs	24.95 kg
Host Collar Size#	4.75 - 9.5 in	120.65 - 241.3 mm

### ENVIRONMENTAL SPECS

Probe Pressure Rating	24,000 psi	165,000 kPa
Probe Temperature Range (Standard probe)	32° - 302° F	0° - 150° C
Maximum Vibration	20 g <sub>RMS</sub> (5-1000Hz)	
Maximum Shock	250g, 1/2 sine, 1/2 msec	

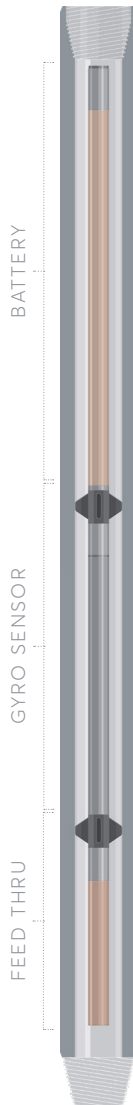
### GENERAL SPECS

Sensor Type	3-axis coriolis vibratory rate gyro 3-axis accelerators	
Survey Accuracy*	Wellbore Dependant	
Running Mode	Gyrocompass, Continuous Toolface, Continuous Inclination while Sliding	
Measurement	Range	Accuracy
Inclination	0° - 180°	±0.05°
Azimuth	0° - 360°	±0.1°
Tool Face	0° - 360°	±1.0°
Gravity Tool Face	-180° - 180°	±1.0°

\*ISCWSA / SPE WTS compliant error ellipse reports are available upon request for specific well profiles.

#Available collar size dependent on MWD / Directional provider.

Specifications are subject to change based on well profile. Contact your Gyrodata representative for details. Updated August 2022. Copyright ©2022 Gyrodata, Inc. Patent: www.gyrodata.com/patents



Gyrodata's gyro while drilling service, Quest™ GWD provides all-attitude, high-accuracy, high-performance coriolis vibratory rate-gyroscopic surveys in real-time as drilling progresses. This modular gyro while drilling tool is combined with a host measurement while drilling (MWD) & telemetry system, and provides rate-gyroscopic steering and survey data in vertical to horizontal applications.

### DESIGN + PERFORMANCE

- High-performance coriolis vibratory gyro assures precise wellbore guidance for collision avoidance and trajectory placement
- Provides continuous inclination and tool face from vertical while sliding, and full surveys on demand
- Surveys during the connections - no additional wait time
- Unaffected by magnetic interference, the sensors can run closer to the bit in the MWD string by eliminating the need for non-magnetic spacing collars for the gyro sensor
- Eliminates the need to use wireline gyros to orient or steer the drilling assemblies, which saves considerable rig time and provides for safer operations
- Power and communication feed thru capable for versatile positioning in the bottomhole assembly (BHA)
- Memory multishot capability as the BHA is tripped out of hole
- Compatible with electromagnetic, wired pipe and mud pulse telemetry systems
- No mass unbalance or calibration shift
- Fully transparent gyro quality control; gravity, full earth rate and latitude. Third parties can QC the data
- No East/West cautionary zones

### MARKET + APPLICATIONS

- Vertical, Directional & Horizontal Drilling
- Multi-Well Pad Drilling
- Offshore & Riserless Drilling
- Onshore Drilling
- Batch Well Drilling
- High Latitude Drilling
- Gross Error Detection
- Definitive Wellbore Placement
- Ellipse of Uncertainty Reduction
- Areas of Magnetic Interference
- Collision Avoidance
- Side-Tracking
- Relief/Intervention Well
- RSS Drilling
- Casing While Drilling
- IFR & MWD Validation

**gyrodata**