**PRODUCT SPEC SHEET**

**GYROGUIDE GWD70™**  
High Accuracy Gyro While Drilling

**GENERAL SPECS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probe Length</td>
<td>18.56 – 23.78 ft 5.66 – 7.25 m</td>
</tr>
<tr>
<td>Probe OD (standard probe)</td>
<td>1.875 in 47.625 mm</td>
</tr>
<tr>
<td>Probe Weight</td>
<td>165 lbs 75 kg</td>
</tr>
<tr>
<td>Probe Pressure Rating</td>
<td>20,000 psi 151.7 MPa</td>
</tr>
<tr>
<td>Probe Temperature Range</td>
<td>32° - 300°F 0° - 150°C</td>
</tr>
<tr>
<td>Vibration</td>
<td>8g RMS (all axis)</td>
</tr>
<tr>
<td>Survey Accuracy *</td>
<td>Wellbore Dependent</td>
</tr>
<tr>
<td>Host Collar Size #</td>
<td>4.75 in – 9.5 in</td>
</tr>
</tbody>
</table>

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

# Available collar sizes dependent on MWD / Directional provider.

**SENSOR SPECS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>Stationary north finding spinning mass rate gyroscope</td>
</tr>
<tr>
<td>Running Mode</td>
<td>Gyrocompass, Continuous Toolface</td>
</tr>
</tbody>
</table>
| Measurement Range         | Inclination 0 - 70° ± 0.05°  
Azimuth 0 - 360° ± 0.1°  
Tool Face 0 - 360° ± 0.1°  
Gravity Tool Face -180° - 180° ± 1° |

Gyrodata’s gyro while drilling GyroGuide GWD70 service provides advanced collision avoidance and real-time knowledge of wellbore position, enhancing performance and safety. This modular gyro while drilling tool is combined with a host measurement while drilling (MWD) & telemetry system, and provides rate-gyroscopic surveys in vertical to high angle applications.

**DESIGN + PERFORMANCE**

- Rate gyro accuracy 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.
- 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.
- Memory multishot capability as the BHA is tripped out of hole.
- Utilizes CAP data processing; corrects g-sensitive errors in real-time.
- The tool can be run with the most commonly available MWD systems.

**MARKET + APPLICATIONS**

- Vertical & Directional Drilling
- Multi-Well Pad Drilling
- Offshore & Riserless Drilling
- Onshore Drilling
- Batch Well Setting
- High Angle Drilling
- Gross Error Detection / Survey Validation
- Definitive Wellbore Placement
- Ellipse Of Uncertainty Reduction
- Areas of Magnetic Interference
- Collision Avoidance
- Side-Tracking
- Relief / Intervention Well
- Infill Drilling
- RSS Drilling
- Casing While Drilling

Specifications are subject to change based on well profile. Contact your Gyrodata representative for details. Updated April 2019. Copyright ©2019 Gyrodata, Inc.