GS2™ – Technology Specifications

The GS2 represents the world's first high accuracy solid state north-seeking gyro survey tool, combining the flexibility of the Gyroflex product range with the ruggedness and low power of solid state technology, providing a high accuracy freefall drop survey capability with extended time in hole.

Instrument Performance	▪ **Accuracy:**	Dependant on wellbore profile
	▪ **Typ Azimuth Accuracy:**	1.0° SPE WPTS (ISCWSA) error model available on request
Operating Features	▪ **Instrument OD:**	1.3" (33mm)
	▪ **Instrument Length:**	33" (838mm)
	▪ **Pressure Cased OD:**	1.75" (without thermal shield)
	▪ **Pressure case length:**	40" min
	▪ **Pressure Rating:**	20,000psi
	▪ **Operating modes:**	Wireline or battery Orientation, survey, memory multishot Continuous survey readout at wireline speeds up to 300 ft/min
	▪ **Memory Capacity:**	3,000 shots in multishot / Drop mode
	▪ **Battery Life:**	Up to 20 hours (programmable hold off, shot interval)
	▪ **Drop Mode:**	Freefall drop (Go-Devil), drill string retrieved
	▪ **Wireline Telemetry:**	Digital, Mono or multi conductor to 30,000 ft
	▪ **Depth Measurement:**	Auto continuous depth measurement available
Electrical Power	▪ **Wireline Supply:**	125mA Constants current at 30v
	▪ **Max Power Consumption:**	3 Watts
Sensors		State-of-the-art tri-axial gyroscopes High accuracy tri-axial accelerometers
Environmental	▪ **Temperature:**	32-400°F(200°C) with thermal shield for up to 8 hours 40-200°F (without thermal shield)
	▪ **Shock:**	1,000g, 1/2 sine 1mS
	▪ **Vibration:**	10g rms, 20-1,000Hz random
Surface Equipment	▪ **Wireline Power Supply:**	110/240v AC in, 200w Out with protection
	▪ **Rig Floor Display:**	256 x 128 Transflective LCD with backlight Sealed to IP65
	▪ **Software:**	Windows (98, XP, Vista, Win7+) based Drillog™ service software

Note**:** Performance data is based upon measurements in a controlled environment and field results may vary.