



GYRO TECHNOLOGIES LTD  
**Product Data Sheet**

**GS3™**

The GS3 gyro tool, part of the Gyroflex™ range, offers multi-axis MEMS, North-seeking, and all-angle gyroscope.

**Capabilities:**

- ✓ No magnetic interference.
- ✓ Operates in real-time & in battery mode.
- ✓ Built-in CCL for depth determination.
- ✓ Free fall drop.
- ✓ Highspeed Continues Survey.
- ✓ Integrated inrun & outrun QA/QC
- ✓ Too-face Orientation.
- ✓ Seated steering while drilling.

[enquiries@gyrotechnologies.co.uk](mailto:enquiries@gyrotechnologies.co.uk)  
[www.gyrotechnologies.co.uk](http://www.gyrotechnologies.co.uk)



## GS3™ PRODUCT OVERVIEW

The GS3 gyro tool, part of the Gyroflex™ range, features multi-axis MEMS, North-seeking, all-angle capability, and built-in CCL. It supports drop and high-speed deployment from vertical to horizontal, performs surveys in magnetic interference, and reports in real-time or memory modes. Advanced algorithms correct for drift in real-time, saving all raw data for optimal error estimation. Both inrun and outrun measurements ensure quality control without productivity loss. It fits most drill pipes, rods, and casing sizes down to 1.8" ID, operates up to 20,000 psi and 200°F, and uses a Drillog™ interface.

## SYSTEM CONFIGURATION

GYRO SENSOR	Tri-Axial Solid-State MEMS	DEPTH SENSOR MODE DEPLOYMENT	Integrated Continuous Measurement & CCL Electric and Battery Freefall Drop, Wireline, Slickline and in combination with logging tools ALC
GYRO TECH ACCELEROMETER	North Seeking Tri-Axial Solid-State MEMS		Multi-Shot, Single-Shot, Tool-Face Orientation, High-Speed Continues & Steering.
ANGLE	All-Angle	SURVEY	
CALIBRATION	Automation System		

## SPECIFICATIONS

DIMENSION	
Tool OD	1.7 in
Sensor OD	1.3 in
Min Tool Length	60 in
ENVIRONMENT	
Pressure Rating	20k psi
Max Temperature	200°F
Max Heat-Shield Temp	400°F
Max Depth	30k f
STRESS	
Shock intensity	1000g
Shock Pulse Profile	1/2 sine, 1mS
Vibration Intensity	10g rms
Vibration Frequency Range	20-1000Hz Random

ACCURACY	
Dynamic Azimuth	0.5° <60° Lat
Static Azimuth	0.25° <60° Lat
Inclination	0.1°
Gyro Tool-Face	0.2°
Gravity TF	0.1°
Position Error Rate	1% of total depth (MD)
SURVEY TIME	
Stationary	45 second
Continues	1 second
Running Speed	300ft/min
ELECTRICAL SPECS	
Input Power	150mA @ 30V
Output Protected Power	110/240V AC In, 200W
Wireline Cable	Mono/Multi
Battery Type	Alkaline
Runtime	20 Hours
Memory	3000 Shots
Tool Consumption	4 Watts

