GTL GYRO TECHNOLOGIES

## GYRO TECHNOLOGIES LTD Product Data Sheet

### **Fusion HDD™**

The Fusion Gyro survey system is a high-accuracy, allangle borehole survey instrument in a slimhole configuration. It combines solid-state sensors with advanced signal processing for superior HDD performance. Features include magnetic tracking, real-time and memory modes, continuous vertical to horizontal operation, and integrated QA checks.

#### **Capabilities:**

- All-angle northseek capability
- ✓ Magnetic Steering Tool compatible
- ✓ Measures annulus and drillpipe pressure
- ✓ Seated Gyro Steering Service
- ✓ Continuous survey capability
- ✓ Independent QA with gyro/accelerometer
- Real-time pressure measurement
- Integrates with Trutrack systems

info@gyrotechnologies.co.uk www.gyrotechnologies.co.uk

# GYRO TECHNOLOGIES LTD.

Innovation in borehole surveying



### Fusion HDD<sup>™</sup> PRODUCT OVERVIEW

Using oil and gas expertise, we've developed the Fusion<sup>™</sup> system for Horizontal Directional Drilling (HDD). It integrates an all-angle northseeking solid-state gyro with onboard magnetics, providing steering tool support and magnetic tracking. It also reads drillpipe and annulus pressure for hole monitoring. The system withstands drilling shock and vibration, replacing traditional tools without special subs and is compatible with 'Tensor' style tools. It uses MEMS gyro and accelerometer technologies for high accuracy. The Fusion<sup>™</sup> runs in real-time and memory modes, powered by electric wireline or rechargeable battery. It offers multi-mode capabilities, field-proven reliability, pressure monitoring, and an easy software interface.

### SYSTEM CONFIGURATION

GYRO SENSOR	Multi-Axial Solid-	DEPTH	Wireline/Slickline
	State	SYSTEM	
GYRO TECH	North Seeking	MODE	Electric and Battery
ACCELEROMETER	Multo-Axial Solid-	DEPLOYMENT	Wireline/Slickline
MAGNETOMETER	State		
ANGLE	All-Angle	SURVEY	HDD, Tool-face guidance while
			drilling, Multi-Shot, Single-
			Shot, Orientation, and High-
			Speed Continues.
CALIBRATION	Automation		
	System		

### SPECIFICATIONS

DIMENSION				
Tool OD	2 in			
Min Tool	60 in			
Length				
ENVIRONMENT				
Pressure	5k psi			
Rating				
Max	150°F			
Temperature				
STRESS				
Shock	1000g			
intensity				
Shock Pulse	1/2 sine, 3mS			
Profile				
Vibration	10g rms			
Intensity				
Vibration	20-1000Hz Random			
Frequency				
Range				

ACCURACY			
OWSG	1′/1000′		
Azimuth	0.5° +/- 60° Lat, 1 sigma meas.		
Inclination	+/- 0.1°		
Pressure	1 psi		
MEASUREMENTS			
Stationary Survey	45 second		
Continues Survey	1 second		
Pressure Range	3000 psi		
ELECTRICAL SPECS			
Power Supply	110 / 240 v AC in, 200ma Out		
Consumption	5 Watts		
Wireline Cable	Mono/Multi		
Battery life	Rechargeable		
Memory capacity	10 Hours Continuous		

