



Product Introduction

Gyro While Drilling (GWD)

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The Gyro While Drilling system uses solid-state gyroscopes unaffected by magnetic interference. It transmits real-time data through MWD mud pulsers, enabling measurement while drilling and greatly improving directional drilling efficiency. It can be used for surveys and directional operations in magnetically interfered environments such as open holes, cased holes, side track well operations, anti-collision in cluster wells, tubing, drill pipe, coal mine operations, tunnels, and trenchless construction.

Features

- /// Adopting all-solid-state gyro with strong shock and vibration resistance
- /// No need to tripping out, saving time and cost of drilling measurement
- /// Self-North-seeking, no need to calibrate, full attitude continuous measurement
- /// Measurement results are not affected by magnetic environment, high accuracy
- /// Real-time measurement of tool surface during slide drilling





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System Specifications

OD	φ45mm
Max. Working Pressure	20kpsi
Working Temperature	-20 ~ 150 °C
North-seeking Time	30s
Battery Life	200h

Measurement Parameters

Parameter	Range	Accuracy
Inclination	0 ~ 90°	±0.1°
Azimuth	0 ~ 360°	±1.0°
Toolface	0 ~ 360°	±1.0°
Gyro High Side	0 ~ 360°	±1.0°

