



Survey Services

North-Seeking Gyroscope (N/SGyro)

Right Angle Directional utilise the North-Seeking gyro to directionally survey inside drill pipe or casing, orient whipstocks, and for kick-offs on multi-well platforms.

The tool is 42mm diameter allowing surveys in drill pipe or tubing and can be run on mono or multi conductor e-line for real-time surveys orientations or in battery memory mode on slick line where e-line is unavailable.

The compact surface electronics comprise of a Surface Interface Box, a laptop, & printer.

The gyro measures the earth's rate of rotation to determine its position & does not rely on pre & post job orientations on a pre-surveyed foresight mark. Each survey station is independently measured so cumulative errors such as gyro drift are eliminated. Surveys can be taken from vertical to 75 degrees inclination with an azimuth accuracy of +/- 1 degree (repeatability +/- 0.5 degree) & an inclination accuracy of +/- 0.1 degree.

When used to set a whipstock in vertical & deviated wells, the N/S gyro provides real-time measurement of the whipstock orientation as it is rotated resulting in significant time savings & accurate placement.

Specifications	
ToolSize (OD)	42mm
Running gear size (OID)	44.5mm
Inclination	0 to 75 deg (accuracy +/- 0.1 deg)
Azimuth	0 to 75 deg (accuracy +/- 1.0 deg)
Tool Face (Gyroscopic)	+/- 1.0 degree
Power source	1 20v/240v AC single phase
Maximum operating temperature	100 Deg.C.
Maximum operating pressure	15,000 psi
Length Gyro + telemetry	751bs
Total tool weight	2.26 m
Wireline connection	1 3/8" 12 thread (type 'A')