

MiNS – Technology Specifications

The Miniature Northseeking instrument (MiNS) represents the world’s first sub 1" high accuracy true north-seeking gyro survey tool. With increased levels of infill drilling activity and the associated resurvey requirements, the MiNS is intended for use in production well survey applications where small diameter tubing restrictions are often encountered.

Instrument Performance	<ul style="list-style-type: none"> ▪ Accuracy: Dependant on wellbore profile ▪ Typ Azimuth Accuracy: 2.5° SPE WPTS (ISCWSA) error model available on request
Operating Features	<ul style="list-style-type: none"> ▪ Instrument OD: 0.9" (22.9mm) ▪ Instrument Length: 18" (457mm) ▪ Pressure Cased OD: 1.2" (with thermal shield) ▪ Pressure case length: 40" min ▪ Pressure Rating: 18,000psi ▪ Operating modes: Wireline – multishot Northseeking ▪ Wireline Telemetry: Digital, Mono or multi conductor to 30,000 ft ▪ Depth Measurement: Auto continuous depth measurement available
Electrical Power	<ul style="list-style-type: none"> ▪ Wireline Supply: 250mA Constants current at 30v ▪ Max Power Consumption: 5 Watts
Sensors	<ul style="list-style-type: none"> ▪ State-of-the-art twin axis gyroscopes ▪ High accuracy tri-axial accelerometers
Environmental	<ul style="list-style-type: none"> ▪ Temperature: 32-400°F (200°C)with thermal shield for up to 8 hours 40-200°F (without thermal shield) ▪ Shock: 200g, 1/2 sine 1mS ▪ Vibration: 10g rms, 20-1,000Hz random
Surface Equipment	<ul style="list-style-type: none"> ▪ 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