

GYRO PATH® NSG (North Seeking Gyro)

The most robust precision north seeking technology on the market.

The Gyro Path® NSG uses the latest in solid state nanotechnology for impressive results in the most extreme drilling conditions. The rugged design of the Gyro Path® NSG from Icefield Tools delivers consistent performance, and the longevity that customers expect after 25 years of making the world's most robust survey instruments.



FEATURES

- SOLID-STATE NORTH SEEKING GYROSCOPIC TECHNOLOGY
- PRECISION ACCURACY IN UNDER 1 MINUTE
- UNAFFECTED BY MAGNETIC INTERFERENCE
- RUGGED DESIGN - RELIABLE IN EXTREME DRILLING ENVIRONMENTS
- SMALL SIZE - ALLOWS FOR USE WITH MEDIUM AND SMALLER SIZED RIGS
- USER FRIENDLY SOFTWARE
- MAY BE OPERATED BY IN-HOUSE OR CONTRACTED GUIDANCE PERSONNEL
- NO SURFACE COIL NEEDED

APPLICATIONS

- GYRO STEERING & ORIENTATIONS
- RIVER CROSSINGS
- HIGHWAY CROSSINGS
- SWAMP / WETLANDS CROSSINGS
- SHORE APPROACHES
- RAILROAD CROSSINGS
- URBAN AREA CROSSINGS
- VERIFICATION SURVEYS
- MEMORY SURVEYS

PERFORMANCE

- AZIMUTH ACCURACY = +/- 0.1 DEGREES
- GYRO TOOL-FACE ACCURACY = +/- 0.1 DEGREES
- INCLINATION ACCURACY = +/- 0.1 DEGREES
- GRAVITY TOOL-FACE ACCURACY = +/- 0.1 DEGREES
- BATTERY LIFE = GREATER THAN 30 HOURS
- MEASUREMENT TIMES AS FAST AS 5 SECONDS



B BORE
P PATH
TECHNOLOGIES
THE PATH TO PRECISE BOREHOLE SURVEY SOLUTIONS

TECHNICAL SPECIFICATIONS:

SENSOR TYPE: INCLINATION

TYPE:	TRIAxIAL
RANGE:	0-180° (APPLICATION DEPENDANT)
ACCURACY:	± 0.1°
SHOCK:	6000G

SENSOR TYPE: GYROSCOPE

TYPE:	SOLID STATE
ACCURACY:	± 0.1°
SHOCK:	2000G

BARE INSTRUMENT SIZE

DIAMETER:	30 mm (1.18")
LENGTH (MEM):	1.54 m (60.67")
LENGTH (WIRE):	1.29 m (50.8")
WEIGHT:	4.05 kg (8.9 lbs)

IN STANDARD PRESSURE BARREL

DIAMETER:	38.1 mm (1.5")
LENGTH:	2.20 m (87")
WEIGHT:	12.55 kg (27.6 lbs)
PRESSURE (MAX):	6000 psi
OPERATING TEMP:	-30° C TO +85° C (-22°F TO +185°F)

IN HIGH PRESSURE BARREL

DIAMETER:	44.45 mm (1.75")
LENGTH:	1.95 m (77")
PRESSURE (MAX):	18000psi
OPERATING TEMP:	-30° C TO +85° C (-22°F TO +185°F)

IN THERMAL HOUSING

DIAMETER:	46 mm (1.81")
LENGTH:	2.27 m (89.67")
PRESSURE (MAX):	18000 psi
RATED FOR 6 HOURS AT 175° C (350°F)	

Gyro Path® NSG Software Options

GYRO PATH LICENSE FEATURES	GYRO PATH® NSG SOFTWARE LICENSES				
	Horizontal Basic	Horizontal 2.0	Horizontal 3.0	Horizontal 4.0	Full
Vertical Applications: (0-60° from vertical)	X	X	X	X	✓
Horizontal Applications: (60-120° from vertical)	✓	✓	✓	✓	✓
MEASUREMENT TIMES / ACCURACY					
5 secs = +/- 3°	✓	✓	✓	✓	✓
15 secs = +/- 1.5°	✓	✓	✓	✓	✓
30 secs = +/- 1°	✓	✓	✓	✓	✓
1 min = +/- 0.75°	✓	✓	✓	✓	✓
1.5 min = +/- 0.6°	✓	✓	✓	✓	✓
2 min = +/- 0.5°	✓	✓	✓	✓	✓
3 min = +/- 0.35°	✓	✓	✓	✓	✓
4 min = +/- 0.3°	✓	✓	✓	✓	✓
8 min = +/- 0.1°	X	X	✓	✓	✓
Steering Data While Drilling	✓	✓	✓	✓	✓
MEASURED DEPTH RANGE (MEASURED LENGTH OF BORE)					
0 - 1000 ft (0 - 305m)	✓	✓	✓	✓	✓
0 - 2000 ft (0 - 610m)	X	✓	✓	✓	✓
0 - 3000 ft (0 - 915m)	X	X	✓	✓	✓
Unlimited Measured Depth	X	X	X	✓	✓
SOFTWARE LICENSE TYPES AVAILABLE					
Permanent License	✓	✓	✓	✓	✓
TEMPORARY LICENSES - EXPIRING (PAY AS NEEDED)					
Annual License (1 Year)	✓	✓	✓	✓	✓
Quarterly License (90 Day)	✓	✓	✓	✓	✓
Monthly License (30 Day)	✓	✓	✓	✓	✓