

# 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
- REAL-TIME AND MEMORY CAPABILITIES
- HIGH TEMPERATURE OPTION
- USER FRIENDLY SOFTWARE
- INSTRUMENT PERFORMANCE MODEL

## APPLICATIONS

- DROP METHOD GYRO SURVEYS
- MEMORY SURVEYS
- REAL-TIME SURVEYS
- GYRO STEERING & ORIENTATIONS
- VERTICAL / HORIZONTAL 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
- GYRO COMPASS TIME ≤ 1 MINUTE = +/- 0.75 DEGREE
- MEASUREMENT TIMES AS FAST AS 5 SECONDS



# BORE 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)	

## CONTACT US

### ICEFIELD TOOLS CORP

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### BORE PATH TECHNOLOGIES

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# Gyro Path® NSG Software Options

GYRO PATH LICENSE FEATURES	GYRO PATH® NSG SOFTWARE LICENSES			
	Vertical Basic	“Oil & Gas” Vertical 2.0	“Oil & Gas Plus” Vertical 3.0	Full
<b>Vertical Applications:</b> (0-60° from vertical)	✓	✓	✓	✓
<b>Horizontal Applications:</b> (60-120° from vertical)	✗	✗	✓	✓
<b>MEASUREMENT TIMES / ACCURACY</b>				
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°	✗	✗	✗	✓
Steering Data While Drilling	✗	✗	✗	✓
<b>MEMORY MODE FEATURES</b>				
Time at Rest: Minimum 15 secs (required time for measurement to begin)	✓	✗	✗	✗
Time at Rest: Minimum 5 secs (faster measurements)	✗	✓	✓	✓
Maximum Memory Survey Time 3 hours	✓	✗	✗	✗
No Maximum Memory Survey Time (battery dependent)	✗	✓	✓	✓
Drop Method Gyro Capability	✗	✓	✓	✓
<b>SOFTWARE LICENSE TYPES AVAILABLE</b>				
Permanent License	✓	✓	✓	✓
<b>TEMPORARY LICENSES - EXPIRING (PAY AS NEEDED)</b>				
Annual License (1 Year)	✓	✓	✓	✓
Quarterly License (90 Day)	✓	✓	✓	✓
Monthly License (30 Day)	✓	✓	✓	✓

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