

Continuous North-finding Gyro

NorthFinder™ Datasheet 2025:02



- High density continuous survey
- Independent readings
- Continuous survey of azimuth from vertical to any orientation
- Fast data transfer
- Low power technology
- Slimmest NorthFinder available

NorthFinder™

Our NorthFinder downhole survey tool is now in its second generation. It combines high-accuracy northfinding with continuous processing for precise surveys in deep vertical sections or daily use, ensuring quick results and reliable performance under challenging conditions with real-time DTH processing. Hybrid MEMS/FOG technology gives the best of both worlds!

Application Guide: Directional Drilling, Diamond Drilling and Coring

Dimensions

In rod spacers config : Diameter 35 mm, Length 1857 mm, Weight 9.45 kg
(*Stinger Orientation, Core Retriever and Centralizer configurations also available*)

Accuracy

Inclination: $\pm 0.10^\circ$
Azimuth*: ± 0.29 (at 0 deg latitude)
Gravity highside: ± 0.15 deg
Gyro toolface*: ± 0.29 (at 0 deg latitude)
Position accuracy: $< 0.2\%$ (2m/1000m)**
Rate range: ± 1000 deg/s
North seeking time: < 3 min

Reference Direction Limitations

North seeking: $\pm 0.30^\circ$ to $\pm 0.90^\circ$ inclination
Manual collar reference***: $- 30^\circ$ to $+ 30^\circ$ inclination

Survey Modes

Singleshot: North seeking only $\pm 30^\circ$ to $\pm 90^\circ$ inclination
Multishot: All inclinations
Continuous: All inclinations

Performance

Temperature Range : -20°C to $+70^\circ\text{C}$
Modes of operation : Memory, SingleShot, Continuous, MultiShot, Orientation
Battery time : 20 hours normal use
Battery type : Rechargeable NiMH
Communication : Bluetooth
Power consumption : 1.4 W
Survey runtime : 20 hours

Control

Software : Surveyor, Windows 10 & 11
Data management : SurveySafe cloud portal system
Recommended : Getac UX10, rugged tablet PC (MIL-STD-810G)

* Depending on latitude and inclination. Accuracy quoted at 1-sigma and 180 s North seek time.

Also depends on borehole direction. Full accuracy reference table provided in manual.

** Depending on borehole profile and survey procedure.

*** Use alignment device for collar reference.

Inertial Sensing

www.inertialsensing.com
Hörnåkersvägen 6A, 183 65 Täby, Sweden

Contact

Ph.+46 (0)708 98 04 59
info@inertialsensing.com