



iANARO-HP

Your Source for reliable Solutions

HORIZONTAL DIRECTIONAL DRILLING

SURVEY PRECISION

Gyro	
Azimuth	0.04 deg *
Pitch	0.02 deg
Toolface roll	0.10 deg
3D Magnetic (microcoil)	
Magnetic 3D-accuracy	1 % of depth

INCLUDED FEATURES

Pressure sensor		
Annular pressure	100 bar	
One wire PowerLine communication		
PowerLine voltage	48 V	
Minimum length	up to 3'000 m	
Connection type	wet connector	

TECHNICAL SPECIFICATION iANARO-HP

with BHA		without BHA
195 mm (8")	Outside diameter	148 mm (6")
3'500 mm	Overall length	1'200 mm
6 5/8 " API reg box	Uphole connection	
6 5/8 " API reg pin	Downhole connection	
2'000 l/min	Maximum mud flow rate	
100 bar	Maximum pressure	100 bar
-1071 °C	Temperature (sensor)	-1071 °C
~500 kg	Weight	~60 kg

* Gyro compassing depends on the rotation rate of the earth and therefore depends on the local latitude. The achivable precision increases in direction of the equator and can be calculated by: $accuracy = 0.04 \text{ deg} / \cos (\text{latitude})$



iANARO-HP

iANARO-mini

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Lon 7.159663° E • Lat 49.273880° N • Alt 311.9 m



iANARO-HP

The most precise Gyro based HDD Steering Tool in its Class



iANARO

Complete system components

TrueGyde

For more than **30 years iMAR is a leader** in developing most precise and robust inertial navigation systems. Since **more than 20 years,** iMAR manufactures the leading ultra precise tools for horizontal and vertical borehole surveying and drill head steering for directional drilling (HDD). **iANARO-HP is the latest generation** of a most robust gyro based drillhead steering tool, made of state of the art and robust technology. It uses a unique technology to provide precise information in order to determine the position and attitude of the drillhead in **realtime.**

CONTENTS OF IANARO SYSTEM

- 1 iANARO GYRO steering tool (AMD)
- (2) iANARO ground control box (ACB)
- (3) iANARO control software

OPTIONAL:

- (4) 3D high precision magnetic sensor
- **5** TrueGyde software
- Bottom Hole Assembly (BHA)
- with all parts mounted ready to drill

In combination with the **TrueGyde** steering software, **iANARO-HP** can be **used right away** for planning steering and documentation. TrueGyde Systems bore planning and navigation was developed more than 10 years ago in Canada in order to provide enhanced support for the latest generation of magnetic steering tools. The TrueGyde system has since become **a global leader in HDD** navigation systems. It is compatible with all the leading tools in the industry.



The system provides a **very accurate, true north** related heading and pitch information (azimuth and inclination), even under very harsh environmental conditions, up to **hard-rock drilling** and high rotation rates around the drill rod. Furthermore, it provides environmental and operational information, like temperature, pressure, battery and health status.



