

PRODUCT HIGHLIGHTS

APOLLO DIRECTIONAL MODULE

Real-time Accurate Inclination,
Azimuth & Tool Face Measurements

Legendary MWD Systems You Can Trust



Standard version
rated for 150° C and
20,000 psi pressure
ratings with High
Temperature rating
tools (175° C) available
upon special request

Operates on very
low power

Probe-based
configuration, which
makes it economical
and easy to replace

- Best performing MWD Directional tool for multiple hole sizes
- Provides faster, safer, and more accurate well placement while drilling
- Enable operators to make critical sidetracks with greater confidence
- High shock vibration rating of 1000g/0.5 ms
- High tool face accuracy of (± 1.0 degrees) makes it a best choice for directional control
- Highly sensitive/accurate inclination & azimuth measurements steer the well in desired direction
- Anti-collision scans are more reliable
- Provides survey on fly while drilling

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Apollo has a rigid one piece chassis with 3 magnetometers and 3 accelerometers to measure well geometry accurately

Apollo delivers tool face, inclination, azimuth and directional surveys precisely without any interruption as its design allows direct connection to a microprocessor-based data acquisition system

Apollo calibration data is provided with each module which eliminates the chances of measurement errors

SPECIFICATIONS	
Tool Type	Kintec
Length	80" / 2.03 m
Weight	37 lb / 16.8 kg
Inclination	± 0.10 degrees, 3 sigma
Azimuth	± 0.25 degrees, 3 sigma
Tool Face Accuracy	± 1.0 degrees
Max Temperature	175° C (350° F) (150° C by request)
Max Hydrostatic Pressure	20,000 PSI (137.9 MPa)
Operating Voltage	18-32 V
Nominal Current	12 mA
Shock	1,000 g / 0.5 millisecond
Vibration	25g RMS 30-500 Hz random
	20g all axis

Extended applications:

- Accurate directional measurements place the well in target zone
- Improves log interpretation and reservoir modeling
- Successfully follow well plans of critical directional wells
- Real-time directional measurements enable geologists, petrophysicists and drilling team to make quick decisions while drilling

Cost-effective and high-quality results:

- Operates without Lithium Battery
- Short length, i.e., 2.03 meters, enables smaller sensor to bit distance
- Light weight
- Easy to carry and mobilize
- Compact and modular design
- Completely compatible with all Compass MWD equipment and telemetry systems