

Magnetic Steering Tool

System Specification

Manufacturer	Applied Technologies Associates, California (sister company of Scientific Drilling)	
Dimensions	1.375"/1.75" O.D. x 150" without heatshield 1.375"/1.75" O.D. x 174" with gamma module 1.75" O.D. x 174" with heatshield	
Pressure Rating	1.75" 20,000 psi 1.375" 28,000 psi	
Temperature Rating	135°C/275°F standard probe without heatshield 150°C/302°F H. Temp probe without heatshield 315°C/600°F with heatshield	
Inclination Ranges	No limit	
Transmission Medium	Mono or multiconductor wireline	
Data Display And Storage	Real time display with selected data stored to laptop PC	
Data Accuracy	Inclination	± 0.1° all angles
	Azimuth*	± 0.1° >3°
	Toolface	± 0.1° >3°
System Accuracy	Inclination	± 0.15° all angles
	Azimuth*	± 0.25° >3°
	Gravity Toolface	± 0.15° >3°
	Magnetic Toolface	± 0.15° <3°
Remarks	The accuracy of all magnetic survey systems depends on the latitude of the drillsite, BHA configuration, hole direction, and the crustal variations in the Earth's magnetic field. Many of these variables are not under the control of the Surveyor, therefore, a true universal accuracy specification is not possible. Experience has shown that in most cases, a typical and achievable azimuth accuracy of ± 0.25°, >3° inclination is possible.	
System Features/Options	Drillers rig floor display Peak G assembly vibration monitoring Gamma logging and plots to API standard Annular pressure monitoring system (sensor supplied according to downhole pressure)	
Software	Mpost, API Log	

