

ESS & EMS Survey Instrument

Introduction

The probe sensor of the instrument consists of tri-axis acceleration sensor and tri-axis fluxgate sensor, provide magnetic and gravitational hattitude parameters. The micro-processor system is embedded inside, avoiding the manual reading error. It can preserve 2000 groups of data at most, with professional data-processing software to calculate the trajectory easily.

Features

- Adopt mini high precision solid statesensor
- High reliable probe which is able to bear the shock of 3500g (7.7lbs)
- Provide parameters: attitude, magnetic density, temp and power
- Rechargeable battery and controlled intelligently
- The data are all with real-time clock label

Application

- Monitor the borehole trajectory in oil drilling project
- Drilling construction in coal mine
- Borehole survey in geological drilling

Technical Parameters

Inclination	0 to 60°/180°	±0.2°
Azimuth	0 to 360°	±1.0°
 Gravity tool face 	0 to 360°	$\pm 0.5^{\circ}$
 Magnetic tool face 	0 to 360°	$\pm 0.5^{\circ}$
 Magnetic density 	0 to 100µT	±0.5µT
 Magnetic dip 	-90° to 90°	±0.5°
 Temperature 	Up to 125°C / 257°F	

Specification

		Pressure	Max	
Model	OD	Resistance	temperature	Notes
LHE123301	Ф45mm/1.77"	75MPa(10875psi)	125°C / 257°F	EMS
LHE113501	Ф35mm/1.38"	120MPa(17400psi)	125°C / 257°F	Small OD EMS
LHE127601	Ф45mm/1.77"	150MPa(21750psi)	260°C / 500°F With Heatshield continuous work 38	High Temperature EMS
LHE313301	Ф45mm/1.77"	75MPa(10875psi)	125°C / 257°F	Electronic Single Shot
LHE313501	Ф35mm/1.38"	120MPa(17400psi)	125°C / 257°F	Small OD ESS
LHE327601	Ф45mm/1.77"	150MPa(21750psi)	260°C / 500°F With Heatshield continuous work 3h	High Temperature ESS
LHE116601	Ф40mm/1.57"	140MPa(20305psi)	200°C / 392°F	Small OD High Temperature EMS

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