borehole geophone
triaxial, biaxial or uniaxial

Features

- 4.5Hz, 8Hz, 10Hz, 14Hz & 15Hz geophone sensors available
- Large bandwidth
- Aluminium body or PVC housing
- High resistance to water ingress
- High pressure applications
- High temperature option available
- Low cost & excellent reliability

Applications

ES&S geophones are commonly used in mining applications often implemented in combination with accelerometers. Geophone configurations can be uniaxial, biaxial or triaxial. Various sensors offer different advantages namely frequency range, amplitude, temperature, reliability and price.

Beneficial features of our geophones are there long term stability, reliability, accuracy, large bandwidth and low cost. ES&S offers a wide range of frequencies 4.5Hz, 8Hz, 10Hz, 14Hz & 15Hz. ES&S can customize borehole geophones and our engineers are happy to discuss the most suitable configuration to suit your

es&s environmental systems & services

MET
SEIS
ENV
GEO

Technical Specifications

Resonance Frequency	4.5Hz	**Operating Temperature**	-40° to 100°C
Sensitivity	28 V/m/s tolerance ± 5%	**Moving Mass**	16.1g
Distortion coil to case frequency	<0.3%	**Distortion measurement frequency**	1%
Open circuit damping	0.265 ± 5% tolerance	**Physical Diameter**	56mm
Length	260mm not including grouting body	**Housing Material**	Aluminium or PVC cylinder

Operating Principal

ES&S' geophones feature excellent reliability, high accuracy, low cost and rugged water proof housing. ES&S custom builds and assembles borehole geophones specific to your requirements. Our engineers welcome any opportunity to discuss the most suitable configuration for your application.

Borehole sensors can be either grouted or locked into place. The sensors are designed to fit into B or N size boreholes. Data cable is connected to the sensor and runs up the borehole where it's plugged into the data acquisition system.

Environmental Systems & Services Pty Ltd.
8 River Street, Richmond, VIC, 3121 Australia
PO Box 939, Hawthorn, VIC, 3122 Australia
Telephone: + 61 3 8420 8999
Facsimile: + 61 3 8420 8900
Email: geotechnical@esands.com
Web: www.esands.com