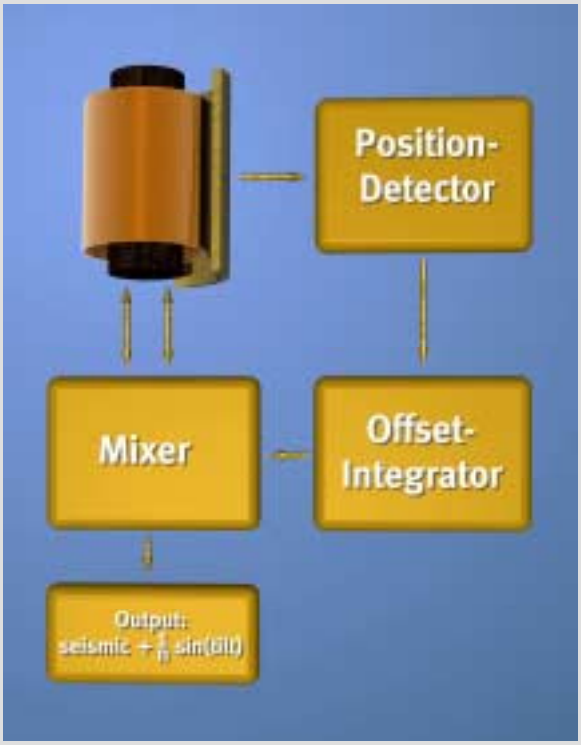
„Full Tilt“

Electronically Gimballed Geophone

Geophone



Description

For the first time, SEND GmbH offers the "Full Tilt" 4.5 Hz geophone that operates in any orientation without distortion. An internal position sensor keeps the geophone's coil in its center position due to a feedback arrangement. A fraction of the feedback current, which is proportional to the tilt, is added to the seismic signal. Therefore, the Z-component of a 3 axis arrangement can be determined by vector rotation in a first post-processing step automatically.

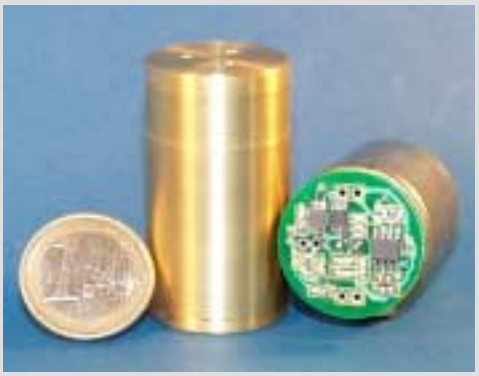
The electronics add only 10 mm length to the compact size of a geophone, which is negligible compared to mechanical gimbal arrangements.

Specifications

Geophone

Based on a modified standard sized geophone of 4.5 Hz Natural frequency

Damping (open circuit):	0.9± 5%
Sensivity (open circuit):	35 V/m/s± 5%
Maximum possible tilt:	90°
Power consumption:	
in vertical position	35 mW
in horzontal position	20 mW



3C Pressure Housing

Manufacturer: K.U.M. Umwelt- und Meerestechnik GmbH, Germany

Diameter:	170mm;
Height:	80mm
Max. Pressure:	600 bar

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