



BGK1000 | Borehole Geophone

The BGK1000 is a digital borehole geophone used to receive P- and S-waves in dry and water filled boreholes. The borehole geophone can be used for seismic downhole applications.

Technical Details

Natural sensor frequency: 15 Hz
(others on request)

Sensor arrangement: Tri-axial

Power supply: 12 V input 72 V output

Operational depth: Up to 2000 m

Max. pressure: 200 bar

Temperature range: 0-70 °C

Receiver length: 800 mm

Receiver diameter: 60 mm

Receiver weight: 8 kg

Borehole diameter: 75-200 mm

Clamping system: Motor-driven clamping arm

Orientation: Magnetic compass (+/- 2.5°)

Communication: 2 wire RS-485

Downhole electronics: DSP = Blackfin 548,

64 MB SDRAM

Cable head: GO-4

Digitisation

Design: Hinz Messtechnik GmbH

A/D conversion: 24 bit

Sampling frequencies: 250-48000 Hz

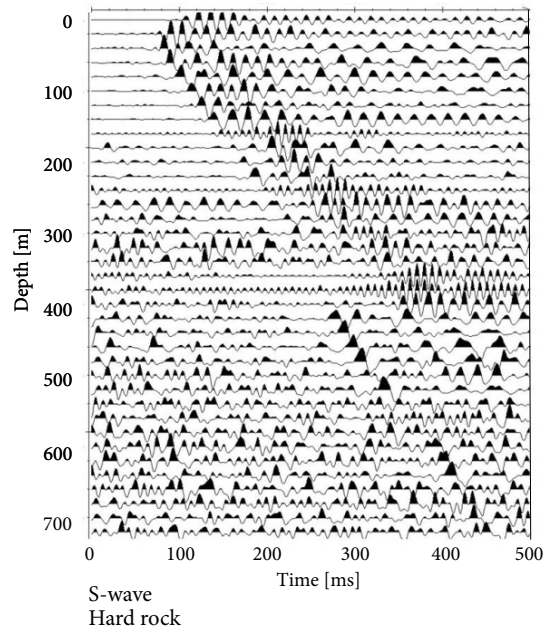
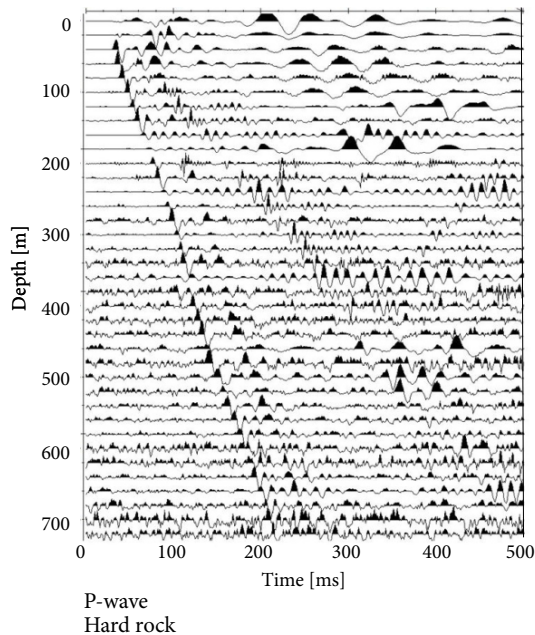
Trace length: Max. 21 s

Trigger: TTL, geophone, contact

Software: SmartRec (Geotomographie)



Data Example



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