tomography | crosshole | downhole | surface seismic

geotomographie

manufacturer of seismic borehole equipment

BGK5 | Borehole Geophone

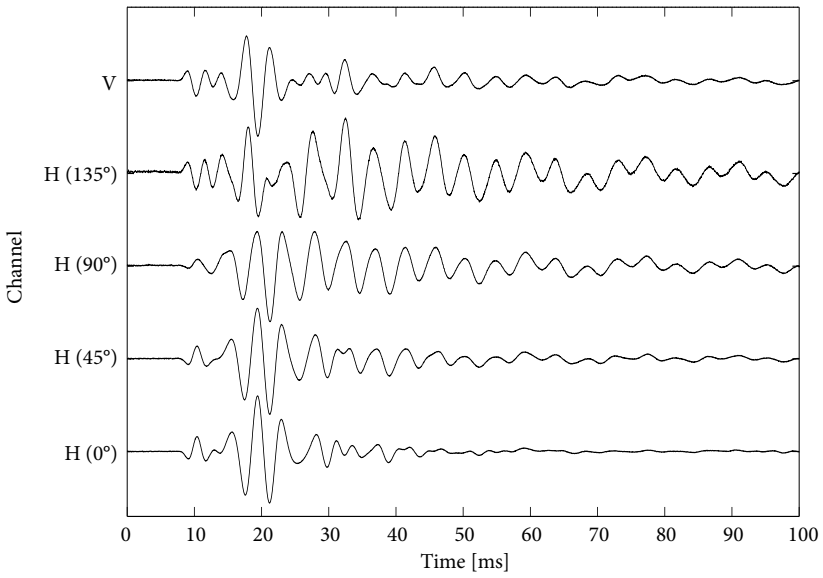
The borehole geophone BGK5 is used to receive P- and S-waves in dry or water filled boreholes. The borehole geophone BGK5 consists of four horizontal sensors, separated by 45° intervals, and one vertical sensor. The geophone is coupled to the borehole wall by a pneumatic clamping system (inflatable bladder). Air is supplied to the BGK5 through an electro-pneumatic hybrid cable with a Kevlar tension string. The cable is terminated by a connector to the seismograph.

Borehole geophone BGK5 with cable drum and pneumatic clamping mechanism using an inflatable bladder.

Technical Details

Natural sensor frequency: 10 Hz (others on request)
Sensor arrangement: 4 horizontal (45°)/1 vertical
Operational depth: Up to 100 m
Receiver length: 600 mm
Receiver diameter: 51 mm
Receiver weight: 2.8 kg
Cable weight per metre: 145 g
Cable strength: 2150 N
Borehole diameter: 75 mm (or larger if spacers are used)
Clamping system: Inflatable bladder
Depth indicator: Cable marking every 2 m
Connector: To any seismograph
Storage: On drum

Data Example



Geotomographie GmbH | Am Tonnenberg 18 | D-56567 Neuwied

Tel: +49 2631 778135 | Fax: +49 2631 778136 | **www.geotomographie.de**