



tomography



crosshole



downhole



surface seismic



geotomographie

manufacturer of seismic borehole equipment



BHC1000 | Digital Hydrophone String

Preliminary Information

The hydrophone string BHC1000 is a fully digitized borehole receiver unit running on 4-conductor logging cable. The BHC1000 consists of max. 24 hydrophones moulded to a multicore cable. A digitization unit is placed on top of the string and can be connected to the standard 4-conductor logging cable. At surface a control unit is connected to the logging winch and directly to laptop.



BHC1000-Sonde with BHC1000-Control Unit.

Technical Details

BHC1000-Sonde

Hydrophone sensor: SQ54
Pre-Amplification: Fixed 4 x gain
Operational depth: Up to 1000 m
Number of hydrophones: 24
Max. pressure: 100 bar
Temperature range: 0-70 °C
Digitizer length: 70 cm
Digitizer diameter: 57 mm
Borehole diameter: Min. 70 mm
Depth indicator: Automatic depth counter
Signal transmission: 4-conductor cable
Cable head: GO-4
A/D conversion: 24 bit
Sampling frequencies: 250-48000 Hz
Trace length: 65000 samples

BHC1000-Control Unit

Power: Car battery (9-18 V DC)
Weight: 3kg
Communication: 2 wire RS-485
Downhole electronics: DSP = Blackfin 548,
64 MB SDRAM
Trigger: Piezo, switch, TTL
Auxiliary channel: 4

Data Example

