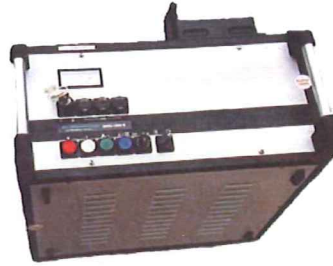


GEOTOMOGRAPHIE



Borehole Impacter Source BIS for SH-Waves

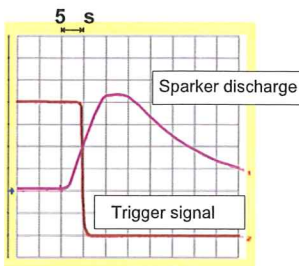
The basic seismic crosshole source equipment consists of the electric surge generator IPG and the remote control unit RCU. To the surge generator various seismic sparker sources can be connected. Triggering of the seismic acquisition system is performed by the remote unit.



IPG 1005

Technical data IPG 1005

- Impulse voltage: 5 KV
- Impuls energy: 1000 J
- Repetition rate: from 4 to 7 s
- Power supply: 230 V 50 Hz 2,5 A
- Dimensions: 52 x 25 x 50 cm
- Weight: ~ 52 Kg
- Working Mode: Manual/Continuous
- Emergency OFF button
- Safety key switch



The remote control unit RCU converts the reference signal of the surge generator to a trigger signal (right). Sparker pulses are released through manual or automatic triggering of the generator or automatic triggering of the generator by the remote unit. The background noise can be recorded automatically and used to interrupt data acquisition if the noise level is too high. Trigger accuracy is below 10 s (left).



RCU

Technical data RCU

- TTL Low/High trigger output
- Trigger test option
- Trigger level adjustment
- Impulse Counting
- Single shot release
- Continuous shot release (variable repetition rate from 4..7 sec.)
- Emergency OFF button
- Safety key switch

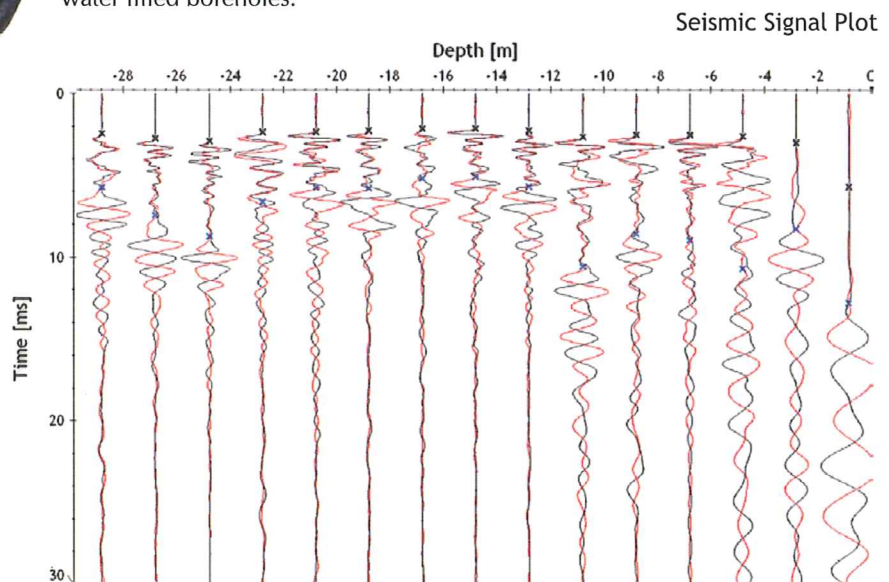


Technical data BIS-SH

- Housing: stainless steel
- Length: approx 70cm
- Diameter: for 3 to 5 " holes
- Depth range: 65 m (or more)
- Clamping: pneumatic
- Rotation: via pipe string

To generate SH-waves in the borehole the BIS-SH is used (left). The BIS-SH consists of a sealed probe part and a pneumatic clamping system. The BIS-SH can be rotated using a pipe string.

The source works in dry and water filled boreholes.



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