

GEPS-2000

GEOELECTRIC POWER SOUNDER



2500 V – 10 A – 3500 W

Resistivity & IP

8 channels with simultaneous measurement

Up to 10 adjustable IP windows

Applications:

Groundwater explorations in arid and semi-arid areas, deep geological surveys, mineral prospecting, structural studies.

Geoelectric Power Sounder GEPS-2000 is a device for data acquisition and interpretation of deep VES (vertical electrical sounding). It can be used for resistivity and IP measurements to the depths of hundreds of meters.

The device consists of the main unit containing a powerful transmitter and receiver supplied from two electric generators with total power of 4000 W. The operation is provided from a user's PC. GEPS-2000 is a made-to-order device its features can be modified.

The measured data from GEPS-2000 acquired from several VES can be assembled into resistivity and IP sections using the interpretation software delivered with the device.



GEPS-2000 - Technical Specifications

Transmitter

Power supply
Output Power
Current
Current waveform
Voltage
Precision

external engine power generator HONDA 2 x 2000 W
up to 3500 W
up to 10.0 A
square with selectable pulse length and frequency
up to 2500 V
0.1%

Receiver

Resistivity and IP measurements with selectable pulse duration and automatic compensation of self potential

Number of channels
Input impedance
Input voltage range
Number of IP windows
Mains frequency filtering
Precision

8 with simultaneous measurement
40 M Ω
 ± 5 V
up to 10
50 Hz
0.1%

Supported methods

VES (especially Schlumberger and Dipole-Dipole)
SP - Self Potential
IP - Induced Polarization (Chargeability)

Pulse
SP compensation
Stacking
Measurement optimization
Stored values

up to 10 adjustable IP-windows, each max. 6 s, step 20 ms
1 s – 255 s, step 1 s
constant and linear, time-invariant
1 - 64

adjustable optimum measured voltage
position of the measured point, output current, output voltage, input voltage, SP, apparent resistivity, standard deviation, chargeability with standard deviation for all 10 IP windows
IPI2-WIN, Surfer or simple ASCII file which is available to be opened in other software

Output data format

Control unit

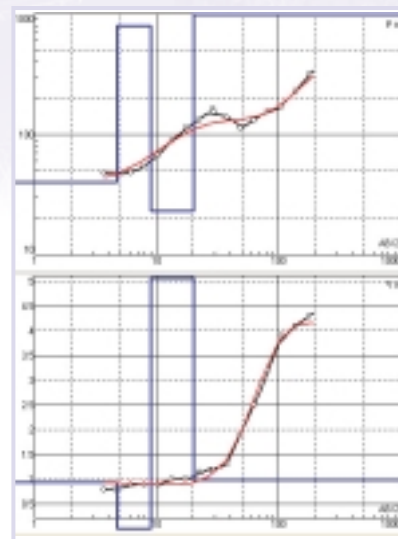
external computer – notebook, connected with USB cable

Standard Accessories:

- GEPS-2000 main unit
- engine power generators (2 pcs)
- connection cables for power generators and for PC
- measuring software
- interpretation software
- user manual

Optional accessories:

- mapping software



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