GEPS-2000 GEOELECTRIC POWER SOUNDER

2500 V – 10 A – 3500 W Resistivity & IP Detachable radio/cable operated receiver 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) as well as for 8 channel profiling (resistivity & IP sections). It can be used for measurement up to 1000 - 2000 m depth allowing both high voltage and high current injection of transmitter current according to real measuring conditions.

The device consists of powerful, overload protected transmitter supplied from two portable electric generators (with total power of 4000 W) and of detachable receiver. The operation is provided from a user's laptop. GEPS-2000 is a made-to-order device its features can be modified.

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. Data output from 8 channel profiling is matched with RES2DINV inversion software.



GEPS-2000 - Technical Specifications

Transmitter

Power supply Output Power Current Current waveform Pulse Voltage Precision

Receiver

Resistivity, IP, SP measurements Number of channels Input impedance Input voltage range Number of IP windows Stacking SP compensation Mains frequency filtering Precision

Dimensions Weight Ambient conditions

Supported methods

VES (vertical electric sounding) 8 channel profiling (pole dipole and other arrays) SP - Self Potential user defined arrays IP - Induced Polarization (Chargeability) Measurement optimization Stored values

Output data format

Control unit

Standard Accessories:

- GEPS-2000 transmitter with detachable receiver
- engine power generators (2 pcs)
- connection cables
- measuring software
- interpretation software IPI2-WIN
- user manual

Optional accessories:

- measuring current and potential cables on reels
- potential array for 8 channel profiling on reel
- measuring electrodes
- inversion and mapping software (RES2DINV, Surfer)

external engine power generator HONDA 2 x 2000 W up to 3500 W up to 10 A (24 bit conversion) square with selectable pulse length and frequency 1 s - 60 s, step 1 s up to 2500 V 0.1%

8 (galvanically insulated or coupled) 40 M Ω ±10 V (24 bit conversion) up to 10 1 - 64 constant and linear 50 Hz 0.1%

700 x 400 x320 mm 35 kg -10 to +50 °C weather proof

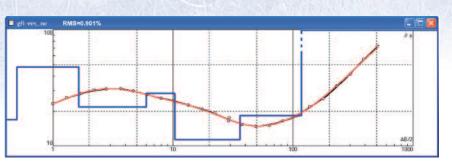


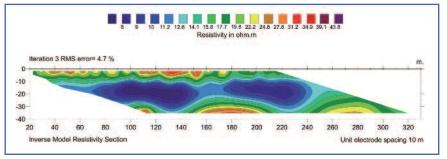
up to 10 adjustable IP-windows, each max. 6 s, step 20 ms adjustable optimum measured potential

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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, RES2DINV, Surfer or simple ASCII file which is available to be opened in other software

external laptop (MS WINDOWS) connected with USB cable







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